

POWERTOOLS

EN



Automotive | Construction | Industry | Assembly | Offshore

2020

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POWERTOOLS

Rami Yokota is a family owned trading business from the Netherlands, founded in 1896 and is now managed by the fourth generation. From selling bicycles, sewing machines and later on automotive and motor parts in the early 1900's, the company moved on to importing high quality air tools from Japan in the early 60's. Through continuous development, innovation and attention to service and building of technical skills, Rami Yokota grew to become a highly valued air tool supplier in Western Europe. Today the focus also includes Eastern Europe as well as Scandinavia. From industrial assembly tools to industrial air tools and air hoists, Rami Yokota caters for a large number of requirements in a large variety of industries.

CONTINUITY

We have been providing service and quality for over 120 years always aiming to help our customers achieve the highest productivity in the most cost effective way. Our strong network of suppliers and distributors, combined with our knowledge and expertise, means we are able to support end-users in finding the most effective solution in any given environment, thus guaranteeing a problem free, continuous operation for our users.

RELIABILITY

Every application requires a different solution, whether you require a heavy industrial tool, an electric, cordless or air assembly tool, we can help you to make the best choice. We do this by demonstrating and testing the tool with both our customers and our distributors. In our well-equipped service

workshop we carry out the maintenance of all our tools, we have trained our partners to carry out maintenance for you and can also offer training to your own staff at our purposely built training facility in Amsterdam or at your own works. Our highly trained team are able to offer advice to ensure that you get the best performance out of your equipment.

CERTAINTY

The brands Yokota and Toku are known for their high Japanese standards and quality products. The precision in the production process guarantees the long lifetime of the equipment. Red Rooster is Rami Yokota's own brand of tools and hoists, developed in cooperation with our technical team and leading industrial manufacturers. We hold extensive stock in our large warehouses in Belgium and the Netherlands and

can be certain to deliver Europe-wide within 24-48 hours.

PRODUCTIVITY

Rami Yokota will help you to increase the efficiency of your production processes. Our assembly tools are known for their accuracy and speed. The impulse technology that characterizes the majority of our tools, ensures better bolt connections and higher productivity. Improved ergonomics, low vibration and no kick-back enable long periods of stress-free continuous operation for your employees. Our air chain hoists are the fastest on the market and due to the 100% duty rating, your production process can be far more efficient.

BRANDS



PRODUCTIVITY AND ERGONOMICS

Yokota industrial and Yokota assembly tools are of the highest quality standards imaginable. Yokota's tools are manufactured to last a lifetime with a specific focus on high productivity and ergonomics. Yokota impulse wrenches are used all over the world for tightening applications where accuracy, quality and speed are required. Yokota offers its impulse tools in air, battery and electric versions. A connection to all varieties of communication protocols is also available.



MAKING THE RIGHT IMPACT

Toku delivers high quality air tools for construction and demolition, material handling, automotive and industrial applications. Toku's focus lies on developing the most powerful, reliable and durable air power tools available in the market. With their powerful impact wrenches, hammers, breakers and other air tools you can be assured of the right impact with a Toku tool.



OPTIMAL AIR QUALITY

SMC is the world's leading manufacturer of air treatment equipment and pneumatic components. Improper conditioning of compressed air leads to costly production failures, higher maintenance costs and an unnecessarily shorter lifetime of your tool. With an, often, reasonable investment in obtaining good air quality (according to ISO standards), SMC's air treatment equipment can make a large difference.



INDUSTRIAL TOOLS

Red Rooster industrial tools, recognizable by a black logo, have been developed to deliver the highest quality and precision. Their durability and the ability to perform under continuous operation, makes these tools ideal for industrial settings. The Red Rooster line of impulse wrenches is highly regarded and recognized as such by a large variety of (car and truck) manufacturers in Europe.



BRANDS



SERVICE TOOLS

Red Rooster is Rami Yokota's brand of high quality service tools. This powerful range of air tools with a red logo is ideal for use in car workshops, shipyards, or any kind of environment where strong and durable tools are required.



RELIABLE LIFTING POWER

Red Rooster is one of the market leaders in air chain hoists and trolleys. With capacities ranging between 125kg and 100 tonne Red Rooster hoists are ideal for industrial and offshore applications. In extreme conditions, explosion prone or very moist areas, the use of Red Rooster hoists is highly recommended. With tailor-made solutions from our factory in the UK we can respond to most requirements in the market.



INDUSTRIAL IMPACT SOCKETS

Action is the world's largest manufacturer of impact sockets. Its impact sockets are durable, of high quality and competitively priced. According to the European EN/ISO 11148-6 standard it is compulsory to use impact sockets on power tools. Action impact sockets can be used for air, electric, hydraulic and battery power tools in a large variety of industries.



ASSEMBLY TOOLS





YOKOTA
YZ-T600

YOKOTA Li-ion 18V 2.0Ah



YOKOTA
YZ-T600

Li-Ion 18V 2.0Ah

VENTING Weight
63 BLACK
EN 388:2015
CE 12/2018
ERL 4131X 09
TITAN GROUP a.s., Průmyslová 483,
Dolní Dobříkov, Czech Republic

ASSEMBLY TOOLS

In this catalogue we combine the best of both worlds. Yokota Industrial and Red Rooster Assembly offer you a full range of assembly tools. From 100% accuracy and traceability for a 'Zero FaultProduction', to plain and simple solutions that accurately tighten threaded fasteners. Time efficient and with maximum ergonomic benefits; we offer you a perfectly fitting solution!

EFFICIENT ASSEMBLY SOLUTIONS



ASK FOR YOUR SOLUTION






CUSTOMISED
MAINTENANCE
DURABILITY
PRODUCTIVITY

EFFICIENT ASSEMBLY SOLUTIONS

Reliability, speed and durability are essential for any assembly line. According to our Efficient Assembly Solutions concept, we focus on the best tool, both for the job and for your environment. This EAS concept combines the choice of power - battery, electrical or air - with design and ergonomic features up to cost and time efficient maintenance.

Together with our specialists you can be certain that your production is efficient, reliable and durable. In the end, we are convinced that our customers are able to assemble according to the highest standards required, with the lowest possible costs and lowest environmental footprint.



IBT
Intelligent Bolting Technology

INTELLIGENT BOLTING TECHNOLOGY

The Intelligent Bolting Technology makes it possibly to program your Assembly tool to the specific application. By programming the tool, the operator is assured that speed, torque and assembly time is correct.

- Adjustable speed
- Slow start function (BA-serie)
- Programmable direction for error free starting
- Reverse can be blocked
- LED Signal for OK or NOK
- Early trigger release judgement



ATT
Advanced Torque Technology

ADVANCED TORQUE TECHNOLOGY

The Red Rooster Battery Impuls tools are equipped with Advanced Torque Technology. This feature makes it possible to adjust torque time needed for the application. The number of impulses can be programmed in 9 steps, depending how hard of soft the joint is. This assures the operator that an optimum clampforce is reached, with the lowest relaxation.

- Hard joints: Steps 1-3
- Middle soft joints: Steps 4-6
- Soft joints: Steps 7-9



EPR
Efficient Power Regulation

EFFICIENT POWER REGULATION

Efficient Power Regulation optimizes battery life by:

- Early battery warning
- Battery discharge warning
- Battery shut off, when battery discharged

SELECTION GUIDE

Guideline values for tightening torques

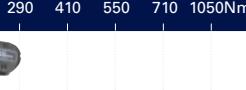
The below guidelines for relations between bolt size, strength class and required torque levels are meant for guidance only.

VDI 2230*		STEEL				STAINLESS STEEL		
Strength classes	Dimension of bolt head mm	5.8	8.8	10.9	12.9	50	70	80
Bolt	Dimension of bolt head mm	Torque Nm	Torque Nm	Torque Nm				
M1.6	-	0,11	0,17	0,24	0,29	0,10	0,20	-
M2	-	0,22	0,35	0,49	0,58	0,25	0,30	-
M2.2	-	0,29	0,46	0,64	0,77	-	-	-
M2.5	-	0,44	0,70	0,98	1,20	0,45	0,60	-
M3	-	0,77	1,20	1,70	2,10	1,00	1,10	-
M3.5	-	1,20	1,90	2,70	3,30	-	-	-
M4	7	1,9	2,9	4,1	4,9	0,9	2	2,7
M5	8	3,7	6	8,5	10	2	4	5,3
M6	10	6,4	10	14	17	3,2	7	9
M8	13	16	25	35	41	8	17	23
M10	17/16	31	49	69	83	16	33	45
M12	19/18	54	86	120	145	27	58	77
M14	22/21	86	135	190	230	43	93	124
M16	24	130	210	295	355	66	142	190
M18	27	180	290	405	485	93	198	265
M20	30	255	410	580	690	130	278	371
M22	32	345	550	780	930	174	374	499
M24	36	440	710	1000	1200	224	480	640
M27	41	650	1050	1500	1800	331	708	-
M30	46	880	1450	2000	2400	450	964	-
M33	50	1200	1900	2700	3250	609	-	-
M36	55	1550	2450	3450	4150	782	-	-
M39	60	2.000	3.200	4.500	5.400	1.013	-	-
M42	65	2.450	3.950	5.550	6.650	-	-	-
M45	70	3.100	4.950	6.950	8.350	-	-	-
M48	75	3.750	5.950	8.400	10.100	-	-	-
M52	80	4.800	7.650	10.800	12.900	-	-	-
M56	85	5.950	9.550	13.400	16.100	-	-	-
M60	90	7.400	11.900	16.700	20.000	-	-	-
M64	95	8.950	14.300	20.100	24.100	-	-	-
M68	100	10.800	17.300	24.300	29.100	-	-	-

* These torque values are only guide lines and are calculated with friction factor 0,125.

SELECTION GUIDE

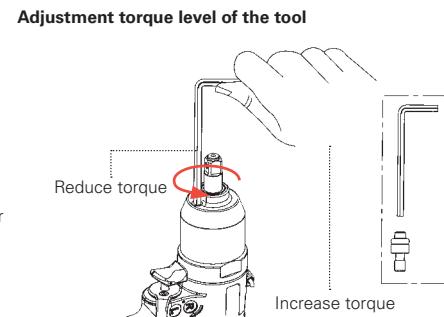
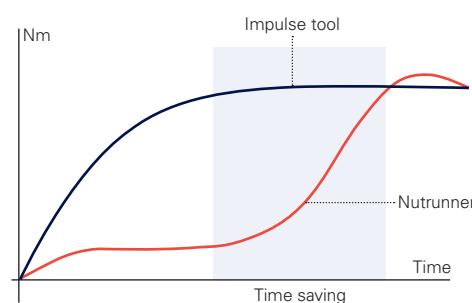
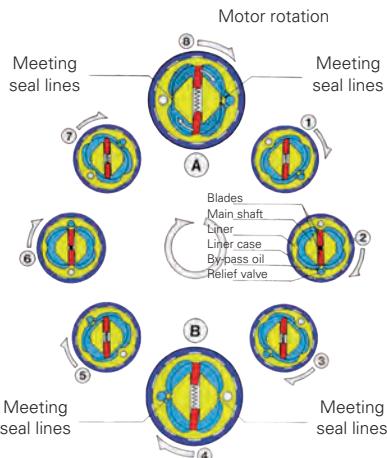
Guideline values for tightening torques

	M1,6	M2	M2,2	M2,5	M3	M3,5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27
	0,17	0,35	0,46	0,70	1,20	1,90	2,9	6	10	25	49	86	135	210	290	410	550	710	1050Nm
Yokota air impulse wrenches shut-off																4,5 – 210	(PAGE 28)		
Yokota Air impulse wrenches non shut-off																6 – 490	(PAGE 29)		
Yokota Air impulse wrenches Poka Yoke																6 – 47	(PAGE 26)		
Yokota Cordless impulse wrench shut-off																5 – 60	(PAGE 24)		
Yokota Cordless impulse wrench non shut-off																8 – 65	(PAGE 25)		
Yokota Cordless system wrench torque control angle monitoring																7 – 60	(PAGE 22)		
Yokota Electric system wrench torque control angle monitoring																3 – 90	(PAGE 20)		
Yokota Air system wrench torque control																4,3 – 600	(PAGE 18)		
Yokota Air system wrench torque control angle monitoring																11 – 220	(PAGE 17)		
	M1,6	M2	M2,2	M2,5	M3	M3,5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27
	0,17	0,35	0,46	0,70	1,20	1,90	2,9	6	10	25	49	86	135	210	290	410	550	710	1050Nm
Red Rooster Cordless impact wrenches Shut-off																6 – 120	(PAGE 57)		
Red Rooster Air impulse wrenches Shut-off																6 – 450	(PAGE 35)		
Red Rooster Air impulse wrenches Non shut-off																6 – 390	(PAGE 38)		
Red Rooster Cordless impulse wrenches Shut-off																7 – 65	(PAGE 42)		
Red Rooster Air shut-off screw driver Straight/pistol/angle																0,4 – 10	(PAGE 46)		
Red Rooster Cordless screw driver Shut-off																0,8 – 12	(PAGE 50)		
Red Rooster cordless Shut-off angle wrenches																3 – 90	(PAGE 54)		

SELECTION GUIDE

Specified torques ranges

With an impulse wrench, you bring optimal clamp force into the bolt connection which helps to reduce assembly time to a minimum. When it comes to accurate and fast assembly to the highest ergonomic standards, impulse technology is indispensable in the automotive industry, in the production of transport equipment and mechanical and plant engineering. The tools are quiet, lightweight and responsive.



HIGH ACCURACY

Impulse wrenches have a twin blade impulse mechanism for sealing oil which gives a high repeatability. The mechanism is designed so that the liner, rotated by the air motor gives an equal torque on both blades and instant rotation torque on the mainshaft (see figure above).

A by-pass is designed in the liner so that the oil can escape from the area of high pressure to the area of low pressure at the moment of creating a pulse and the amount of oil flow can be adjusted by the relief valve to control the torque output. Depending on model and setting, the impulse wrenches give 10 - 40 impulses per second. The power is transmitted by oil pressure and therefore the impulse wrenches have a very low noise and vibration level.

SAVE TIME - SAVE MONEY

Because of the principle of using hydraulics to reach a certain torque, impulse tools can run at a high RPM. The required torque is reached in a split second. All YOKOTA and RED ROOSTER impulse wrenches can be used for hard and soft joints, and give a high accuracy/ repeatability and a low relaxation.

SPECIFIED TORQUE RANGE

The torque ranges are specified at a dynamic air pressure of 0,6 MPa, lower air pressure will result in lower torque. Please take note that these impulse wrenches are developed for a dynamic air pressure of 0,63 MPa maximum.

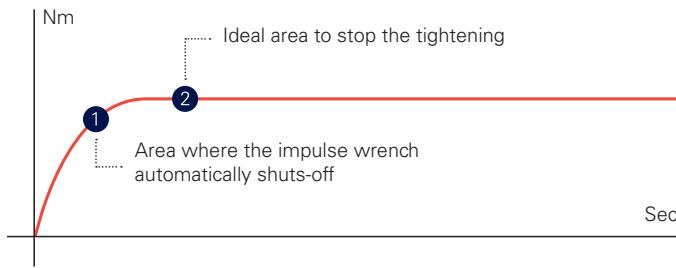
NOTE

The specified torque range is measured in the laboratory under ideal conditions. Therefore these torque figures are only to be used as a guideline. The actual torque range depends on a variety of working conditions, eg: air pressure, joint hardness, used accessory.

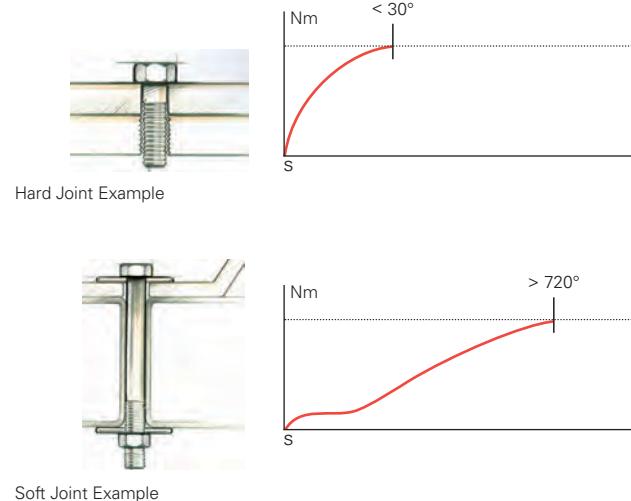
SELECTION GUIDE

Specified torques ranges

Impulse wrenches with and without shutt-off



Hard joint and soft joint



IMPULSE WRENCHES WITHOUT SHUT-OFF ②

Impulse wrenches achieve the highest quality joint if the tightening is finished in this area (horizontal part of the torque curve):

- Highest clampforce with smallest tolerances
- Smallest torque tolerances

IMPULSE WRENCHES WITH MECHANICAL SHUT-OFF ①

- Shorter operating time
- Operator knows when the tightening is finished
- Highest clamp force with smallest tolerances
- Smallest torque tolerances

IMPULSE WRENCHES WITH POKA YOKE⁺ SYSTEM ②

IMPULSE WRENCHES WITH CONTROLLED SHUT-OFF:

- Highest clamp force with smallest tolerances
- Smallest torque tolerances
- Shortest optimum operating time
- Operator knows when the tightening is finished
- Operator is informed about OK-NOK of the tightening
- OK joints are counted, no missed tightenings

IMPULSE WRENCHES

WITH INTEGRATED TORQUE TRANSDUCER ②

- Highest clamp force with smallest tolerances
- Smallest torque tolerances
- Shortest optimum operating time
- Operator knows when the tightening is finished
- Operator is informed about OK-NOK of the tightening
- OK joints are counted, no missed tightenings
- Actual tightening torque is measured
- Full documentation
- Zero fault production

We advise to use the impulse wrench up to 80% of its capacity for the highest productivity, accuracy and durability.

SHUT-OFF IMPULSE WRENCHES SELECTION:

- Hard joint: torque levels up to 95% of the specified torque range
- Soft joint: torque levels up to 85% of the specified torque range

NON SHUT-OFF IMPULSE WRENCHES SELECTION:

- Hard joint: torque levels up to 100% of the specified torque range
- Soft joint: torque levels up to 90% of the specified torque range

ACCESSORIES

The size and shape of impact sockets influence the torque result. Extension bars, depending on the length, can lower the torque range with 5-30% inner torx and inner hexagon can lower the torque range with 5-20%.

FOR THE BEST RESULT OF THE IMPULSE WRENCH, USE:

- Constant stabilized air pressure
- Sleeve drive sockets, impact quality (see pages 197- 203)
- Impact quality accessories with the correct dimensions
- Accessories in good condition
- Correct inner diameter and length hose
- Lubricated air

YOKOTA IMPULSE WRENCHES

Speed · Precision · Quality



 **YOKOTA**



PNEUMATIC
SYSTEM &
IMPULSE
WRENCHES



CORDLESS
SYSTEM &
IMPULSE
WRENCHES



ELECTRIC
SYSTEM
WRENCHES

SYSTEM WRENCHES PAGE 16-19
IMPULSE WRENCHES PAGE 26-31

PAGE 22-25

PAGE 20-21

YOKOTA IMPULSE WRENCHES

Intelligent Assembly Solutions

Yokota International is a leading manufacturer of impulse based assembly tools for high-end production facilities. Yokota developed the first impulse air tools over 45 years ago and the benefits of impulse based assembly tools are well-known all over the world these days: fast, light and with the highest clamping force, free from reaction forces. As an expert in the development, design and manufacturing of assembly tools, Yokota also embraces the opportunities of battery technology and has developed a wide range of intelligent electrical and battery system wrenches with Torque & Angle Control.

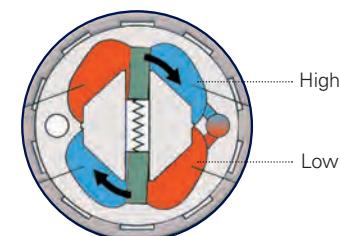
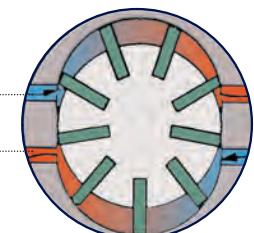
FASTER

YOKOTA impulse wrenches are widely used for tightening jobs in the assembly industry, where accurate torque tolerances are necessary. Impulse tools are light, powerful, small and very importantly, have no kick-back. The YOKOTA range of impulse tools is increasing fast, starting at 6 Nm to tighten small joints, and goes up to 600 Nm. Evaluation of tightening processes in car assembly shows that tightening joints uses 10% of the total assembly time. Working with faster tools therefore can speed up assembly lines substantially.



DOUBLE CHAMBER AIR MOTOR

The YOKOTA Y, YLa, YLT, YED and TKa Series impulse wrenches with double chamber air motor reach the required torque very quickly. The tools have a high number of impulses per second, and therefore very accurate torques can be realized, resulting in increased production speed. The twin blade impulse unit is patented. YOKOTA's unique impulse mechanism reduces noise and vibration!



SYSTEM WRENCHES

Control Units



Yokota developed its first system wrench more than 30 years ago. The purpose being the tightening of threaded fasteners at a high speed and accuracy, with the possibility of counting bolts in a group, detecting errors during tightening and interacting with the production line control systems, including the exchange of tightening data for traceability purposes. The latest developments are not only with a torque transducer on the main shaft but also with an angle encoder. By controlling the torque and monitoring angle, all errors that can occur during tightening are detected and can be acted upon.

OPTIONAL ON TKA SYSTEM WRENCHES:



● Red = NOK



● Green= OK

Visible from every angle: left, right, from the top and behind.

HIGH ACCURACY

Product liability is essential to car manufacture. All tightened joints have to be correct. For this reason critical joints must be counted, documented and, of course, tightened with the right clamp force. In order to do this, you need an impulse wrench (with a built-in transducer) connected to a controller. This system ensures that only OK joints are counted resulting in "Zero Fault Production". This fail-safe system fits perfectly in the Poka Yoke strategy.

TRANSDUCER FOR THE YEX, YED AND TKa SERIES



TRANSDUCER FOR THE YEX, YED AND TKa SERIES

The strain gauges are positioned on the main shaft, picking up the twisting torque on the main shaft at each impulse as close as possible to the socket. The electric signals are transmitted by induction through the internal and external coils. Due to this principle the YOKOTA transducer is very reliable, accurate and without wear. The angle sensor is also mounted on the main shaft.

CHARACTERISTICS

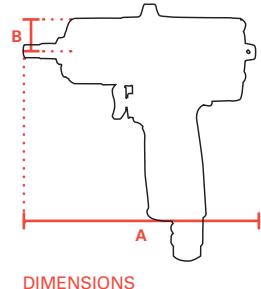
- Easy to program, according to application specifications
- Torque calculation over several impulses
- Compensation impulses to compensate the relaxation (soft joint)
- Poka Yoke proof, line management
- 2-step tightening optional
- 8 setting programs
- 2-way communication through RS-232
- Automatic program change (sequence programmable)
- Build-in timer for group control
- Several input signals
- Several output signals
- Statistics inside CP / CPK
- Memory for 10.000 cycles
- Transducer integrated, direct measurement
- Compact angle encoder
- Torque transducer non - contact type
- Torque and angle curve on PC
- Easy torque adjustment on the tool
- LED or acoustic signal on the tool
- High efficiency air motor
- Shut-off by external solenoid valve

POSSIBLE ERROR DETECTIONS

- Detection insufficient torque and over torque
- Detection friction out of tolerances
- Detection of too long / too short bolt
- Detection of cross threaded threads
- Detection of crooked threads
- Detection of damaged threads
- Detection of double tightening
- Detection of blind holes

SYSTEM WRENCHES

TKa Series: Electronic torque control & Angle monitoring



TKa600

TKa700

TKa600A TKa800

TKa700A TKa800

TKa1110

TKa1200

TKa1400

TKa1500

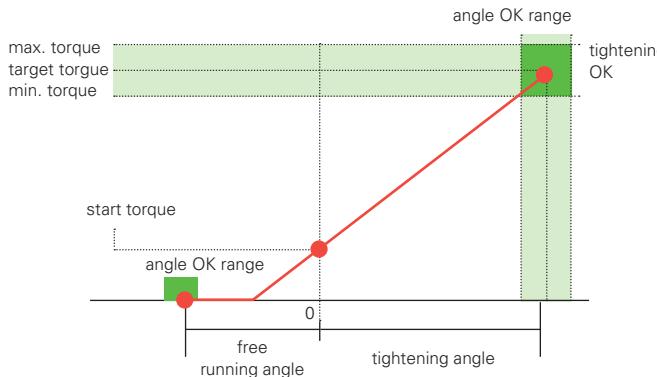
Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Dimensions A mm	B mm	Vibration m/s ²	Noise-level dB(A)
TKa600A	1/4" Hex	6	6.000	11-16	4,5	5,1	1,34	189	21	2,1	71
TKa600	3/8" Sq.	6	6.000	14-20	4,5	5,1	1,34	189	21	2,1	71
TKa700A	1/4" Hex	6-8	7.000	24-33	5,3	6,9	1,34	189	21	2,1	75
TKa700	3/8" Sq.	6-8	7.000	24-33	5,3	6,9	1,34	189	21	2,1	75
TKa800	3/8" Sq.	8	7.000	32-46	5,3	7,1	1,34	196	22	2,1	75
TKa900	3/8" Sq.	8-10	6.500	47-60	6,8	10,5	1,50	204	23	2,1	78
TKa1110	1/2" Sq.	10-12	5.500	65-95	8,8	13,5	1,97	220	25,5	2,2	80
TKa1200	1/2" Sq.	12	5.900	85-130	10	17,2	2,4	223	28	2,2	82
TKa1400	1/2" Sq.	14	5.200	100-160	13	19	3,00	246	29	2,2	84
TKa1500	1/2" Sq.	14-16	4.200	150-220	13,2	18,1	3,4	242	32	2,4	84

SYSTEMCONFIGURATION



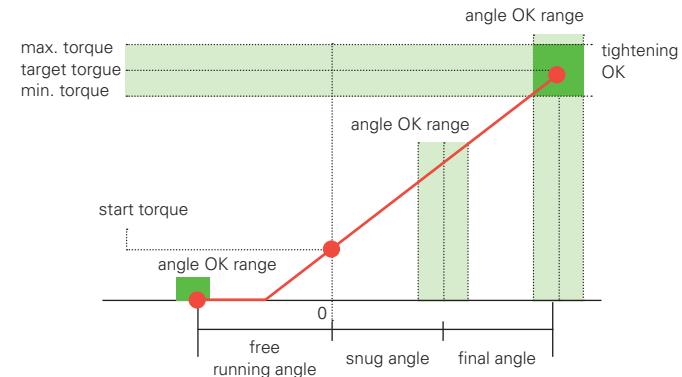
YETC-230ER

Torque control & angle monitoring



YETC-330ER2-L

Torque control & angle monitoring (including snug torque)



ANALYSING SOFTWARE

SYSTEM WRENCHES

TKa/YED Series: Torque controlled



Pistol type



TKa60A
TKa70A
TKa80A



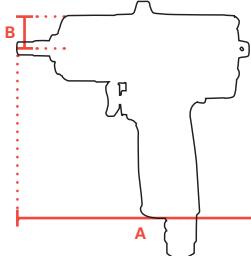
TKa60
TKa70
TKa80
TKa90



TKa110
TKa120
TKa140
TKa150



YED-200



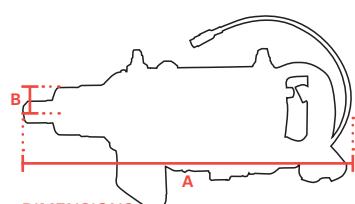
DIMENSIONS

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise-level dB(A)
TKa60A	1/4" Hex	6	6.000	11 - 16	4,5	5,1	1,3	PT 1/4"	6,5	179	22	2,1	71
TKa70A	1/4" Hex	6 - 8	7.000	20 - 27	5,3	6,9	1,3	PT 1/4"	6,5	179	22	2,1	75
TKa80A	1/4" Hex	8	7.000	24 - 33	5,3	7,1	1,3	PT 1/4"	6,5	186	22	2,1	73
TKa60	3/8" Sq.	6	6.000	14 - 20	4,5	5,1	1,3	PT 1/4"	6,5	179	22	2,1	71
TKa70	3/8" Sq.	6 - 8	7.000	20 - 35	5,3	6,9	1,3	PT 1/4"	6,5	179	22	2,1	75
TKa80	3/8" Sq.	8	7.000	32 - 46	5,3	7,1	1,3	PT 1/4"	6,5	186	22	2,1	73
TKa90	3/8" Sq.	8 - 10	6.500	47 - 70	6,8	10,5	1,5	PT 1/4"	9,5	195	24	2,1	78
TKa111	1/2" Sq.	10 - 12	6.000	65 - 105	8,8	13,5	1,9	PT 1/4"	9,5	210	26	2,2	80
TKa120	1/2" Sq.	12	5.900	85 - 130	10,0	17,2	2,4	PT 1/4"	9,5	223	28	2,2	82
TKa140	1/2" Sq.	14	5.200	100 - 160	13,0	19,0	2,9	PT 1/4"	9,5	235	30	2,2	84
TKa150	1/2" Sq.	14 - 16	4.200	150 - 220	13,2	18,1	3,4	PT 1/4"	9,5	242	32	2,4	84
YED-200	3/4" Sq.	20	3.400	155 - 360	18,3	32,2	6,8	PT 1/2"	12,7	309	40	4,2	86

Straight type



YED-240S



DIMENSIONS

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise-level dB(A)
YED-240S	1" Sq.	24	3,000	250-600	28,3	52,2	11,2	PT 1/2"	12,7	452	52,5	15,0	92

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

MULTI FASTENING CONTROLLER FOR THE TKA, YED, YEX SERIES



YETC-230EA
One channel controller



YETC-230EA4
Four channel controller,
several tools can be used at one time



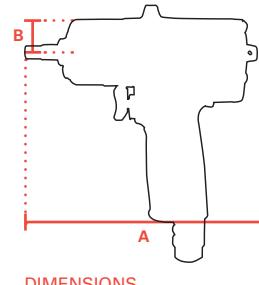
YETC-330EA2
Two channel controller,
two tools can be operated simultaneously

SYSTEM WRENCHES

YEX Series: Torque controlled

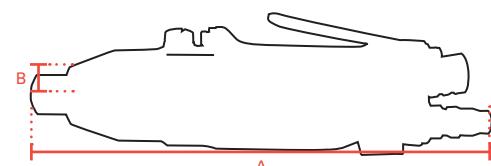
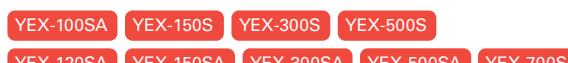


Pistol type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise-level dB(A)
YEX-120	3/8" Sq.	4 - 5	9.000	13 - 17	4,2	5	1,43	PT 1/4"	6,5	222	23	3	72
YEX-120A	1/4" Hex	4 - 5	9.000	11 - 15	4,2	5	1,43	PT 1/4"	6,5	223	23	3	72
YEX-150	3/8" Sq.	5 - 6	9.000	19 - 27	4,2	7,8	1,43	PT 1/4"	6,5	222	23	3	72
YEX-150A	1/4" Hex	5 - 6	9.000	14 - 22	4,2	7,8	1,43	PT 1/4"	6,5	223	23	3	72
YEX-501	3/8" Sq.	6 - 8	8.200	25 - 52	5,3	9,6	2,0	PT 1/4"	9,5	234	26,5	1,6	68
YEX-501A	1/4" Hex	6 - 8	8.200	23 - 49	5,3	9,6	2,0	PT 1/4"	9,5	227	26,5	1,6	68
YEX-701	3/8" Sq.	8 - 10	8.000	45 - 75	6,7	13,5	2,2	PT 1/4"	9,5	246	26,5	1,6	71
YEX-901	1/2" Sq.	10	6.100	61 - 104	6,7	12,5	2,7	PT 1/4"	9,5	257	33,5	2,3	73
YEX-1400	1/2" Sq.	10 - 12	5.900	92 - 142	8,3	16,5	3,5	PT 1/4"	9,5	266	34	3	80
YEX-1900	1/2" Sq.	12	5.800	115 - 183	8,3	16,5	4,1	PT 1/4"	9,5	277	39	3	80
YEX-3000	3/4" Sq.	16	4.000	186 - 284	10,0	20,5	6,4	PT 1/4"	12,7	309	40	4	82

Straight type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise-level dB(A)
YEX-100SA	1/4" Hex	5	8.000	4,3 - 12	3,6	4,4	1,2	PT 1/4"	6,5	285	23	3	77
YEX-120SA	1/4" Hex	4 - 5	7.000	11 - 15	4,2	5	1,38	PT 1/4"	6,5	279	23	3	72
YEX-150S	3/8" Sq.	5 - 6	8.000	19 - 27	4,2	7,8	1,35	PT 1/4"	6,5	275	23	3,3	73
YEX-150SA	1/4" Hex	5 - 6	8.000	14 - 22	4,2	7,8	1,35	PT 1/4"	6,5	276	23	3,3	73
YEX-300S	3/8" Sq.	6	8.000	25 - 33	5,0	9,1	1,8	PT 1/4"	6,5	312	27	5,3	71
YEX-300SA	1/4" Hex	6	8.000	21 - 29	5,0	9,1	1,8	PT 1/4"	6,5	313	27	5,3	71
YEX-500S	3/8" Sq.	6 - 8	7.800	23 - 49	5,0	9,1	2,1	PT 1/4"	9,5	333	27	6,6	71
YEX-500SA	1/4" Hex	6 - 8	7.800	21 - 47	5,0	9,1	2,1	PT 1/4"	9,5	334	27	6,6	71
YEX-700S	3/8" Sq.	8	7.500	33 - 61	5,8	11,2	2,3	PT 1/4"	9,5	333	27	6,6	72

* Torque specifications: All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

FOR A SYSTEM YEX, YED OR TKA YOU NEED:

1 x Controller YETC-230 or YETC-330, 1 x Impulse wrench YEX, YED or TKA [& 1 Solenoid valve YETC-2 SVD and 1 Tool cable which you can find on pages 18 and 63]

SYSTEM WRENCHES

E-M Series, Electric



The YOKOTA electric system wrenches with integrated torque transducer and angle sensor offer a large reduction of energy consumption, a high degree of speed, accuracy and fantastic work efficiency.

ELECTRIC DRIVE

- Reduction of energy consumption Lean and Green.
- No need for pneumatic installation with compressor, air piping, hose and solenoid valves.
- No need for lubrication of the tool. Good for the working environment, especially near paint shops.
- Due to the newly developed outer rotor servo motor and the composite body, the YOKOTA system e-wrench has the lightest weight in its class.

RELIABLE AND ACCURATE TIGHTENING

- Faulty tightening detection with maximum accuracy due to the use of an integrated torque transducer and also an integrated angle sensor.
- During the tightening process, four different variables are measured and monitored: Torque - Angle - Time - N°. of Impulses.
- Torque transducer and angle sensor located directly at the front of the main shaft, giving the best accuracy of measurement.
- Torque transducer measures directly and transmits the signals contactless.
- The angle sensor is an extremely compact (PAT) rotary encoder that detects both angle as well as direction by 1 degree, signal transmission contactless.
- Detects cross threads, double hits, contamination, etc.

DURABILITY

- The impulse unit is supported on both ends by ball bearings (PAT.P).
- The impulse unit has a check valve mechanism (PAT.P) to reduce the oil pressure on the main shaft.
- For heat suppression of the impulse unit it is equipped with a separate cooling fan.
- For heat suppression of the motor it is equipped with a cooling fan that reduces motor size (and weight at the same time).

OPERATOR COMFORTABILITY

- The reaction forces are close to zero due to the use of the oil impulse mechanism, even at high torque bolt tightening. Compared with older models, the number of bolt tightening is improved to 20 bolts/minute.
- Special feature to prevent cross threaded tightening: reversely rotating a bolt to a preset angle at the start of tightening.
- High speeds: Free speed (bolt run down) of 4800 RPM.
- High intensity LED light to project on the bolt.
- Combinations of buzzers and LED (Green / Red) for operator feedback on OK / NOK tightenings.
- Motor speed freely adjustable in the controller. For three different speed stages: Start of trigger / Run down / Final tightening.

CONTROLLER FEATURES

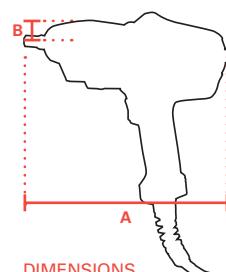
- 20 different parameter settings possible, for a variety of different work pieces.
- Touch screen LCD color display, showing graphs, torque, angle, impulses and more.
- Group management function (counting).
- Result of tightening output through various interfaces: USB, RS-232C, I/O and Ethernet connector.
- Simultaneous use of two tools on one controller is possible.



New developed outer rotor motor



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight kg	Noise level dB(A)	Dimensions A mm	Dimensions B mm
E-M500	3/8" Sq.	M5-M6	300-4.800	3 - 10	2,10	75	236	32,5
E-M700	3/8" Sq.	M6-M8	300-4.800	7,5 - 35	2,18	75	236	32,5
E-M900	3/8" Sq.	M8-M10	300-4.800	30 - 60	2,25	78	236	32,5
E-M1100	1/2" Sq.	M10-M12	300-4.800	50 - 90	2,52	80	248	32,5



SYSTEM WRENCHES

YETC-500 controller



For electric system wrenches with built-in angle and torque sensor. Also available with **open protocol**, **profinet** and **ethernet-IP** communication and others upon request. Please contact us for details.



CONTROLLER

One channel controller



CONTROLLER FRONT PANEL

- 1 Touch panel type LCD
- 2 RS-232C serial connector
- 3 USB connector



CONTROLLER BACK PANEL

1. Ethernet connector (option)
2. I/O terminal board
3. Tool connector 1
4. Tool connector 2

CONTROLLER

Description	Order number
LAN Ethernet-Version	YETC-500-10SL
Serial communication	YETC-500-10SO

EXTENSION TOOLCABLE

Length	Order number
5m	7906-1591-00-01
10m	7906-1591-00-02

AMPLIFIER

Order number	
E-PDA-4	

CONTROLLER LINK UP CABLE

Length	Order number
30cm	7906-1592-00-01

SYSTEM WRENCHES

YS-e Series: cordless



Cordless
System
Wrenches

Yokota cordless impulse wrenches are powerful, very accurate and have no kick-back. With a battery power source the tool allows for the highest operational flexibility. This cordless impulse wrench has a built-in torque transducer and angle-sensor on the main shaft and a wireless connection to its controller. Each controller can connect with up to 4 operating cordless system wrenches. The Yokota cordless system wrench is the perfect solution for applications where cables or hoses are disruptive yet still all tightening data requires documentation and traceability.

CHARACTERISTICS

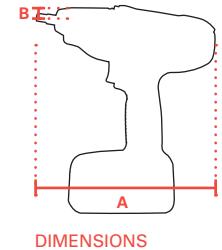
- One controller connects 4 tools
- Complete freedom of movement by use of batteries
- Very low weight / torque ratio
- High speed fastening
- Acoustic and LED signals for tightening status indication
- No kick-back
- Electric (brushless) servo drive, freely RPM adjustable
- Hybrid technology
- 100% check on tightening abnormalities like cross thread, double hit, etc.



IBT EPR
Intelligent Bolting Technology Efficient Power Regulation

Type	Volt. V	Battery type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight (incli. battery) kg	Vibration m/s ²	Noise level dB(A)	Dimensions A mm	B mm
YS-e600	18 V	Li-ion 2 AH	3/8" Sq.	6	1.200-4.800	7-20	1,75	<2,5	72	214	26
YS-e800	18 V	Li-ion 2 AH	3/8" Sq.	8	1.200-4.800	15-35	1,80	<2,5	76	214	26
YS-e900	18 V	Li-ion 2 AH	3/8" Sq.	8-10	1.200-4.800	30-50	1,90	<2,5	78	226	26
YS-e950	18 V	Li-ion 2 AH	3/8" Sq.	10	1.200-4.800	40-60	1,94	<2,5	78	226	26

* Battery and charger have to be ordered separately.



DIMENSIONS

ACCESSORIES



Wireless unit



Programming console



Li-Ion-battery
18V/2.0 Ah



Display



Charger
AC100~240 Volt ±10%
50/60Hz

Type	
Wireless unit	WU-1
Display	DS-1
Programming console	PC-1
Li-Ion-Battery (0,41 kg) 18V 2 Ah	BPL-1820
Charger 18 Volt (40 Min.)	BC0075G

Rubber protection covers

YOKOTA rubber protection covers that are supplied as standard but can also be ordered separately.

Rubber protection cover

	YS-e600	0444-0029-00-00
	YS-e800	0445-0029-00-00
	YS-e900	0446-0029-00-00
	YS-e950	0447-0029-00-00
	for battery	0446-0029-00-01

SYSTEM WRENCHES

YS-e Series: cordless

SYSTEM CONFIGURATION

- Possible to connect 4 tools with the wireless unit
- WLAN communication between tool and controller
- Poka Yoke compatible
- Traceability tightening data
- LAN and RS 232 interface
- I/O terminal for input and output signals



WIRELESS UNIT WU-1

- Parameter input with PC-1 or computer
- USB: setting data back up and restore, memory read out.
- Memory for 10.000 cycles per tool
- Tightening results on DS-1 and/or PC-1
- 4 display connection
- Optional: open protocol



DISPLAY DS-1

- Display shows: tool number, program, torque, OK/NOK, angle, number of pulses, remaining tightenings.



Upper row:
tool number/Program/Torque
Lower row:
tightening angle

Lower row:
free run angle

Lower row:
tightening number and number of
impulses

PROGRAMMING CONSOL PC-1

- Display shows: tool number, program, torque, OK/NOK, angle, number of pulses, remaining tightenings.



Parameters

Tightening OK

Tightening NOK



Cordless
System
Wrenches

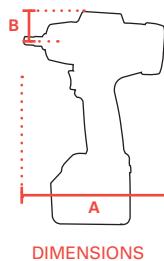
SHUT OFF IMPULSE WRENCHES

YZ-T Series: cordless

YOKOTA YZ-T cordless impulse wrenches with shut-off are powerful, very accurate and most important, have no kick-back. The very compact design offers great accessibility to the joint. Tightening bolts with torque levels up to 60 Nm with very high speed and remarkably low reaction forces. Adjusting the tool settings for the specific bolted joint is done by Programming Console PC-1-YZ-T and cable CC-1. Auditory and visual feedback on the result of the screwing process.

CHARACTERISTICS

- With built-in retention in the square drive
- No kickback
- High speed fastening
- Hybrid technology
- Servo drive brushless motor



IBT EPR
Intelligent Bolting Technology Efficient Power Regulation

Type	Square Drive / Hexagon	Bolt capacity mm	Speed 1 RPM ⁽¹⁾	Speed 2 RPM ⁽²⁾	Speed 3 RPM ⁽³⁾	Torque Nm	Weight with battery	Dimensions A mm	B mm	Vibration m/s ²	Noise level dB(A)
YZ-T600A	1/4" Hex	6	1.200 - 1.500	1.500 - 3.000	1.500 - 4.800	5 - 18	1,4	161	29,5	<2,5	67
YZ-T600E	3/8" Sq.	6	1.200 - 1.500	1.500 - 3.000	2.000 - 4.800	7 - 20	1,4	161	29,5	<2,5	67
YZ-T800A	1/4" Hex	6 - 8	1.200 - 1.500	1.500 - 3.000	2.000 - 4.800	10 - 30	1,5	166	29,5	<2,5	68
YZ-T600E	3/8" Sq.	6 - 8	1.200 - 1.500	1.500 - 3.000	2.000 - 4.800	15 - 35	1,5	166	29,5	<2,5	68
YZ-T900E	3/8" Sq.	8 - 10	1.200 - 1.500	1.500 - 3.000	2.000 - 4.800	30 - 50	1,6	173	29,5	<2,5	69
YZ-T950E	3/8" Sq.	8 - 10	1.200 - 1.500	1.500 - 3.000	2.000 - 4.800	40 - 60	1,65	173	29,5	<2,5	70

⁽¹⁾ From the first stage of the trigger ⁽²⁾ From the second stage of the trigger ⁽³⁾ From shifting level

ACCESSORIES

Delivery is including battery and excluding charger



Li-Ion-battery
18 V/2.0 Ah



Charger
AC100~240 Volt ±10%
50/60Hz



Programming console



Cable

Type	Order number	Type	Order number
Li-Ion-Battery (0,41 kg) 18V 2 Ah	BPL-1820	Programming console	PC-1-YZ-T
Charger 18 Volt (40 Min.)	BC0075G	Cable (2mtr)	CC-1

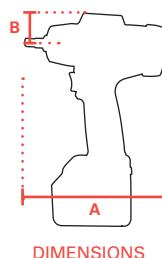
NON SHUT OFF IMPULSE WRENCHES

YZ-N Series: cordless

YOKOTA cordless non shut-off impulse wrenches are powerful, very accurate and most important, have no kick-back. The very compact design offers great accessibility to the joint. Tightening bolts M6 up to M10 with torque levels up to 65 Nm with very high speed and remarkably low reaction forces. The combination of adjustment of the relief valve and speed setting of the motor gives a great fit-for-purpose adaptation to the specific bolted joint.

CHARACTERISTICS

- No kick-back
- High speed fastening
- Hybrid technology
- Servo drive brushless motor
- Torque adjustment
- Mechanical relief valve adjustment
- 4 RPM settings, 2000/3000/4000/
- 4800 RPM, to be set according application/joint conditions



*Battery and charger have to be ordered separately

Type	Volt. V	Battery type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight kg without battery	Weight kg with battery	Vibration m/s ²	Noise level dB(A)	Dimensions A mm	Dimensions B mm
YZ-N600A	18 V	Li-ion 2 AH	1/4 Hex	6	2000-4.800	7-20	1	1,41	<2,5	72	152	29,5
YZ-N600E	18 V	Li-ion 2 AH	3/8" Sq.	6	2000-4.800	8-25	1	1,41	<2,5	72	152	29,5
YZ-N800A	18 V	Li-ion 2 AH	1/4 Hex	6-8	2000-4.800	7-30	1,05	1,46	<2,5	75	157	29,5
YZ-N800E	18 V	Li-ion 2 AH	3/8" Sq.	6-8	2000-4.800	9-35	1,05	1,46	<2,5	75	157	29,5
YZ-N900E	18 V	Li-ion 2 AH	3/8" Sq.	8-10	2000-4.800	16-60	1,20	1,61	<2,5	77	164	29,5
YZ-N950E	18 V	Li-ion 2 AH	3/8" Sq.	8-10	2000-4.800	20-65	1,25	1,66	<2,5	78	164	29,5

ACCESSORIES



Li-Ion-battery
18 V/2.0 Ah



Charger
AC100~240 Volt ±10%
50/60Hz

Type	Order number
Li-Ion-Battery (0,41 kg) 18V 2 Ah	BPL-1820
Charger 18 Volt (40 Min.)	BC0075G

RUBBER PROTECTION COVERS

YOKOTA offers a seamless integration in the 'anti-scratch' policy with rubber protection covers that are supplied as standard but can also be ordered separately.

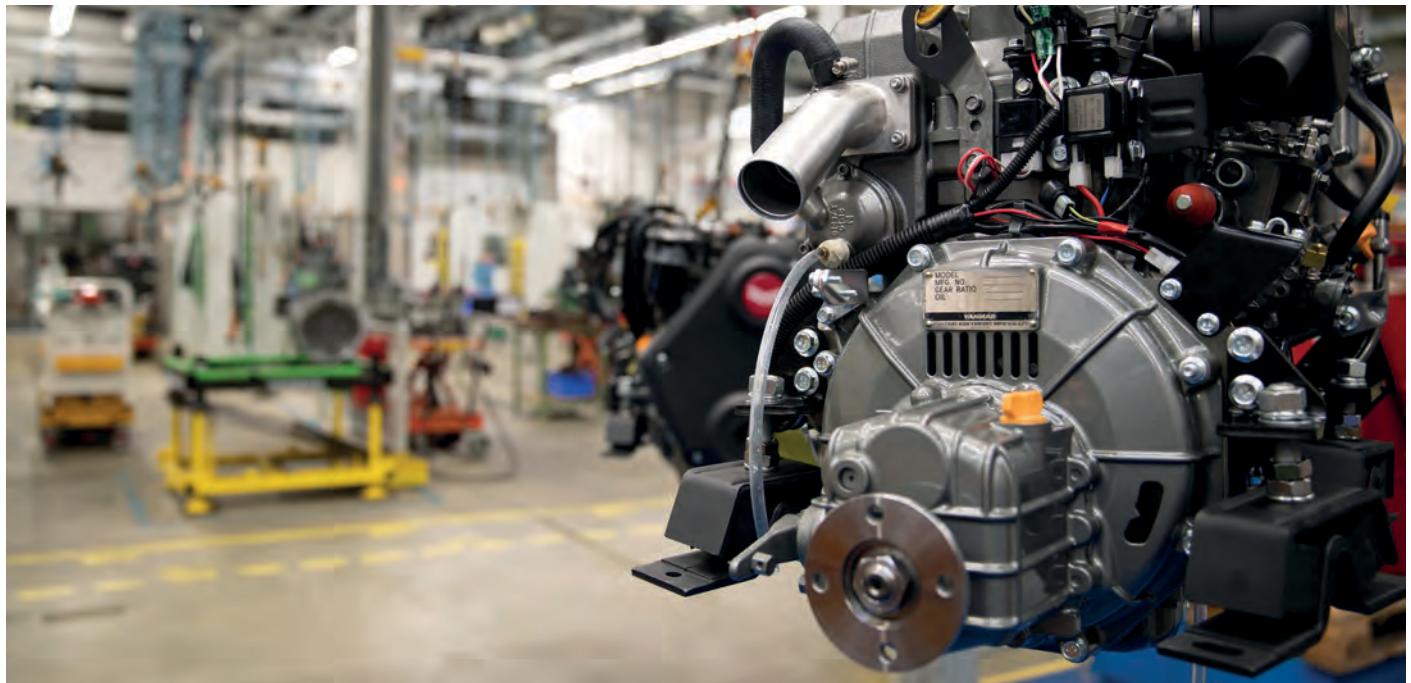
Type	Order number
YZ-N600A	0454-0029-00-00
YZ-N600	0454-0029-00-00
YZ-N800A	0455-0029-00-00
YZ-N800	0455-0029-00-00
YZ-N900	0456-0029-00-00
YZ-N950	0457-0029-00-00



Battery
Impulse
Wrenches

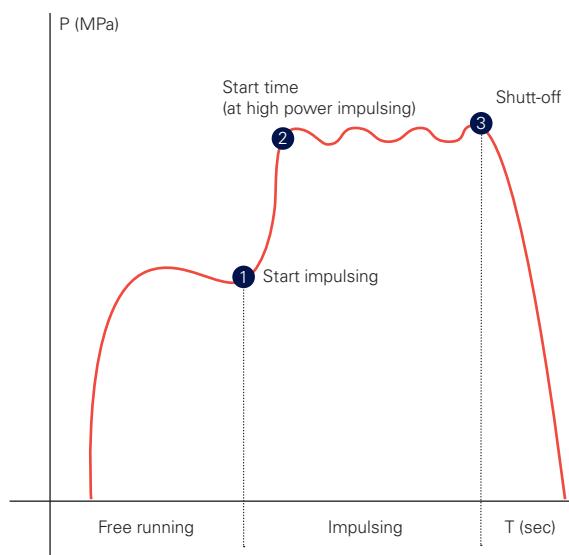
POKA YOKE⁺ SYSTEM

YLa-JQ & Y-JQ Series



POKA YOKE⁺: FUNCTIONING PRINCIPLE

The system is controlled by measuring the air pressure at the inlet side of the air motor. This air pressure varies from free running to impulsing. By this measured air pressure the controller detects contact of the bolt head (point 2). Upon contact, the adjustable timer gives the shut-off signal (point 3). Adjustability of the timer takes care of adoption to either hard or soft joints. Similar, the controller detects double hits and trigger release before shut-off.



The system is more accurate than shut-off or standard impulse wrenches.

SUPERIOR CLAMP FORCES

In conventional shut-off tools point 2 is the shut-off point. Due to the above mentioned principle of the Poka Yoke+ controller, the relaxation is minimized and the correct torque and clampforce are achieved. This system is more accurate than shut-off or standard impuls wrenches. The torque is adjusted at the impulse mechanism. In combination with the parameters in the controller YTC-3, the most reliable shut-off is achieved.

CONTROLLER YTC-3



- Power supply: 100 - 240V AC
- Input: 8
- Relay output: 4 opening and shutting capacity: Max. DC-48W, AC-220VA
- Output for solenoid valve: 1(DC24V 2W)

SYSTEM FEATURES



- Group control
- Controlled shut-off
- Double tightening detection
- Interlock with assembly line
- Error judgement on trigger release
- Teach-in mode for programming
- Oil deterioration indication

POKA YOKE⁺ SYSTEM

YLa - JQ & Y-JQ Series



Lightweight YLa-JQ series



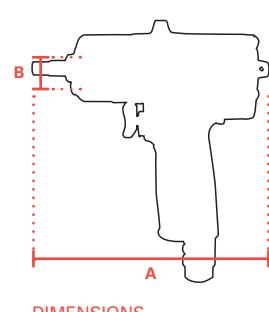
Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise- level dB(A)
YLa60A-JQ	1/4" Hex	6	4.000	11-20	5,0	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLa60E-JQ	3/8" Sq.	6	4.000	13-22	5,0	5,5	0,78	PT 1/4"	6,6	130	22	1,4	71
YLa70A-JQ	1/4" Hex	6 - 8	7.000	20-28	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLa70E-JQ	3/8" Sq.	6 - 8	7.000	20-35	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLa80A-JQ	1/4" Hex	8	7.000	24-35	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLa80E-JQ	3/8" Sq.	8	7.000	33-50	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLa90E-JQ	3/8" Sq.	8 - 10	6.500	47-70	6,7	11,8	1,00	PT 1/4"	10	148	24	1,2	78
YLa110E-JQ	1/2" Sq.	10 - 12	6.000	65-105	9,6	13,1	1,40	PT 1/4"	10	164	26	1,8	81
YLa120E-JQ	1/2" Sq.	12	6.600	80-130	10,0	15,6	1,80	PT 1/4"	10	172	28	2,2	82
YLa140E-JQ	1/2" Sq.	14	6.000	100-160	13,0	18,9	2,20	PT 1/4"	10	190	30	2,4	84

Y-JQ SERIES

Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise- level dB(A)
Y-41A-JQ	1/4" Hex	4 - 6	9.300	6-12	5,0	8,8	0,73	PT 1/4"	6,5	141	17	2,1	72
Y-46E-JQ	3/8" Sq.	5 - 6	8.000	16-30	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-140JQ	3/4" Sq.	16	3.300	160-270	13,1	18,4	3,20	PT 1/4"	13	226	36	3,3	82

* Torque specifications: All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

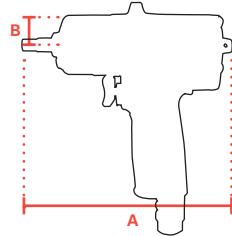
Rubber protection covers for YLa-JQ and Y-JQ impulse wrenches are included in the box.
Accessories for impulse wrenches on pages 61-65.



SHUT OFF IMPULSE WRENCHES



YLTX-Series



DIMENSIONS

0,5-0,6 MPA SERIES

Type	Square/ hex drive	Bolt capacity mm	RPM	Torque Nm* 0,5-0,6 MPA	Load aircons. l/s	No-load aircons. l/s	Inlet- thread	Weight kg	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise level dB(A)
YLTX50A	1/4" Hex	5	4.300	4,5-8	4,2	4,6	PT 1/4"	0,95	6,5	164	22,5	1,1	70
YLTX60A	1/4" Hex	6	5.300	6-13	5,5	5,6	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YLTX70A	1/4" Hex	6-8	6.800	13-28	6,0	8,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YLTX50E	3/8" Sq.	5	4.300	4,5-8	4,2	4,6	PT 1/4"	0,95	6,5	164	22,5	1,1	72
YLTX60E	3/8" Sq.	6	5.300	7-15,5	5,5	5,6	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YLTX70E	3/8" Sq.	6-8	6.800	15-32	6,0	8,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YLTX80E	3/8" Sq.	8	6.800	30-55	7,3	9,2	PT 1/4"	1,12	9,5	187	24,5	1,9	78
YLTX110E	1/2" Sq.	10-12	5.800	50-85	8,3	13,5	PT 1/4"	1,51	9,5	194	28,5	1,8	81
YLTX120E	1/2" Sq.	12	5.400	70-115	8,6	14,6	PT 1/4"	1,79	9,5	201	31	2,2	83
YLTX140E	1/2" Sq.	14	5.200	110-150	11,8	16,6	PT 1/4"	2,08	9,5	214	32,5	5,2	85
YLTX150	3/4" Sq.	16	4.400	140-210	11,8	17	PT 1/4"	2,95	9,5	237	38,5	5,3	84

0,4-0,5 MPA SERIES

Type	Square/ hex drive	Bolt capacity mm	RPM	Torque Nm* 0,4-0,5 MPA	Load aircons. l/s	No-load aircons. l/s	Inlet- thread	Weight kg	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise level dB(A)
YL60AL	1/4" Hex	6	4.500	5-11,5	5,5	4,8	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YL70AL	1/4" Hex	6-8	6.300	11-25	6,0	7,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YL60EL	3/8" Sq.	6	4.500	6-13,5	5,5	4,8	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YL70EL	3/8" Sq.	6-8	6.300	13-28	6,0	7,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YL80EL	3/8" Sq.	8	6.600	25-48	7,3	8	PT 1/4"	1,12	9,5	187	24,5	1,9	78
YL110EL	1/2" Sq.	10-12	5.600	45-75	8,3	11,8	PT 1/4"	1,51	9,5	194	28,5	1,8	81
YL120EL	1/2" Sq.	12	5.200	60-100	8,6	12,3	PT 1/4"	1,79	9,5	201	31	2,2	83
YL140EL	1/2" Sq.	14	4.900	80-125	11,8	14,1	PT 1/4"	2,08	9,5	214	32,5	5,2	85

* Note: Torque values are to be used as guidance only.

FEATURES

- Maximum accuracy: extremely accurate and fast
- Maximum ergonomics: ergo touch / ergo grip / ergo trigger / low noise / low vibration
- Minimal environmental impact: reduction of CO₂ emission
- Double chamber air motor: compact high efficiency
- Oil-free: can be used with non lubricated air

* Rubber protection covers for all YLT-series impulse wrenches are included in the box.

YLTX-J



All YLTX models are also available as J-version: signal hose for detecting shut-off, to connect to counting systems (PLC), line control etc.

NON SHUT OFF IMPULSE WRENCHES

YLa-Series



Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise- level dB(A)
YLa60A	1/4" Hex	6	4.000	9-20	5	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLa70A	1/4" Hex	6 - 8	7.000	20-28	5,5	6,1	0,8	PT 1/4"	6,5	132	22	1,4	74
YLa80A	1/4" Hex	8	7.000	24-35	5,8	9	0,9	PT 1/4"	6,5	139	22	1,2	75
YLa60E	3/8" Sq.	6	4.000	13-22	5	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLa70E	3/8" Sq.	6 - 8	7.000	20-35	5,5	6,1	0,8	PT 1/4"	6,5	132	22	1,4	74
YLa80E	3/8" Sq.	8	7.000	33-50	5,8	9	0,9	PT 1/4"	6,5	139	22	1,2	75
YLa90E	3/8" Sq.	8 - 10	6.500	47-70	6,7	11,8	1,0	PT 1/4"	9,5	148	24	1,2	78
YLa110E	1/2" Sq.	10 - 12	6.000	65-105	9,6	13,1	1,4	PT 1/4"	9,5	164	26	1,8	81
YLa120E	1/2" Sq.	12	6.600	80-130	10	15,6	1,8	PT 1/4"	9,5	172	28	2,2	82
YLa140E	1/2" Sq.	14	6.000	100-160	13	18,9	2,2	PT 1/4"	9,5	190	30	2,4	84

* Note: Torque values are to be used as guidance only.

FEATURES

- Maximum accuracy: extremely accurate and fast
- Maximum ergonomics: ergo touch / ergo grip / ergo trigger / low noise / low vibration
- Minimal environmental impact: reduction of CO2 emission
- Double chamber air motor: compact high efficiency
- Oil-free: can be used with non lubricated air

* Rubber protection covers for all YLa-series impulse wrenches are included in the box.

CUSTOM MADE IMPULSE WRENCHES

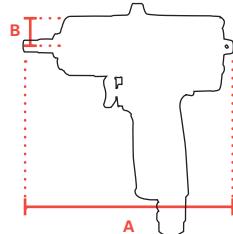


For any application where access to the joint is difficult, we are able to provide tailor made impulse wrenches.

Contact us for more information.

NON SHUT OFF IMPULSE WRENCHES

Y-Series, YX-Series

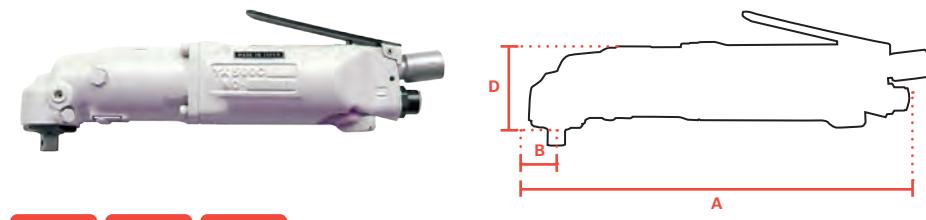


Type	Square/ hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet- thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise level dB(A)
Y-40SA ¹⁾	1/4" Hex	4 - 6	10.000	6 - 12	5,0	7,6	0,84	PT 1/4"	6,5	229	17	4,6	69
Y-41A	1/4" Hex	4 - 6	9.300	6 - 12	5,0	8,8	0,73	PT 1/4"	6,5	141	17	2,1	72
Y-46E	3/8" Sq.	5 - 6	8.000	16 - 30	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-46A	1/4" Hex	5 - 6	8.000	16 - 26	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-140	3/4" Sq.	16	3.300	160 - 270	13,1	18,4	3,20	PT 1/4"	12,7	226	36	3,3	82

1) The Y-40SA is a straight model, all other types are pistol models.

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.



ANGLE MODELS

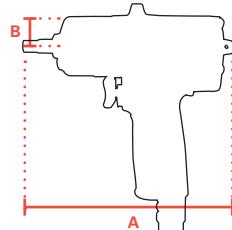
Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	D mm	Vibration m/s ²	Noise- level dB(A)
YX-280C	3/8" Hex	4 - 6	10.000	15 - 24	5,0	7,8	1,40	PT 1/4"	6,5	257	16	50	4	83
YX-500C	3/8" Hex	6 - 8	7.500	30 - 45	5,0	8,6	1,50	PT 1/4"	6,5	266	18	66	10	73
YX-700C	3/8" Hex	8 - 10	5.000	36 - 50	5,8	10,8	1,80	PT 1/4"	6,5	289	18	70	8,6	72

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

NON SHUT OFF IMPULSE WRENCHES

YX-Series



YX-3000

YX-4500

DIMENSIONS

PISTOL MODELS

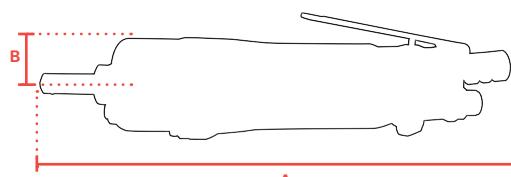
Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise- level dB(A)
YX-3000	3/4" Sq.	16 - 18	4.700	200 - 304	10,0	20,5	4,60	PT 1/4"	12,7	246	40,0	3,9	80
YX-4500	3/4" Sq.	18 - 20	3.400	392 - 490	11,6	24,0	9,80	PT 3/8"	12,7	300	65,0	3,9	87

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

YX-180SE YX-180SA YX-280SE
YX-280SA YX-380SE YX-380SA

YX-500SE



YX-700SE

DIMENSIONS

STRAIGHT MODELS

Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s ²	Noise- level dB(A)
YX-180SE	3/8" Sq.	4 - 6	10.500	19 - 31	4,2	7,8	0,96	PT 1/4"	6,5	220	23	3,3	73
YX-180SA	1/4" Hex	4 - 6	10.500	18 - 30	4,2	7,8	0,96	PT 1/4"	6,5	220	23	3,3	73
YX-280SE	3/8" Sq.	6 - 8	10.500	25 - 38	5,0	9,1	1,02	PT 1/4"	6,5	232	23	4	73
YX-280SA	1/4" Hex	6	10.500	20 - 34	5,0	9,1	1,02	PT 1/4"	6,5	232	23	4	73
YX-380SE	3/8" Sq.	8	10.000	32 - 47	5,0	9,1	1,18	PT 1/4"	6,5	232	25,5	3,3	75
YX-380SA	1/4" Hex	6 - 8	10.000	29 - 44	5,0	9,1	1,18	PT 1/4"	6,5	232	25,5	3,3	75
YX-500SE	3/8" Sq.	8 - 10	7.500	31 - 55	5,0	11,2	1,25	PT 1/4"	6,5	241	25,5	6,6	74
YX-700SE	3/8" Sq.	8 - 10	5.000	35 - 62	5,8	13,5	1,50	PT 1/4"	6,5	262	26,5	6,6	72

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

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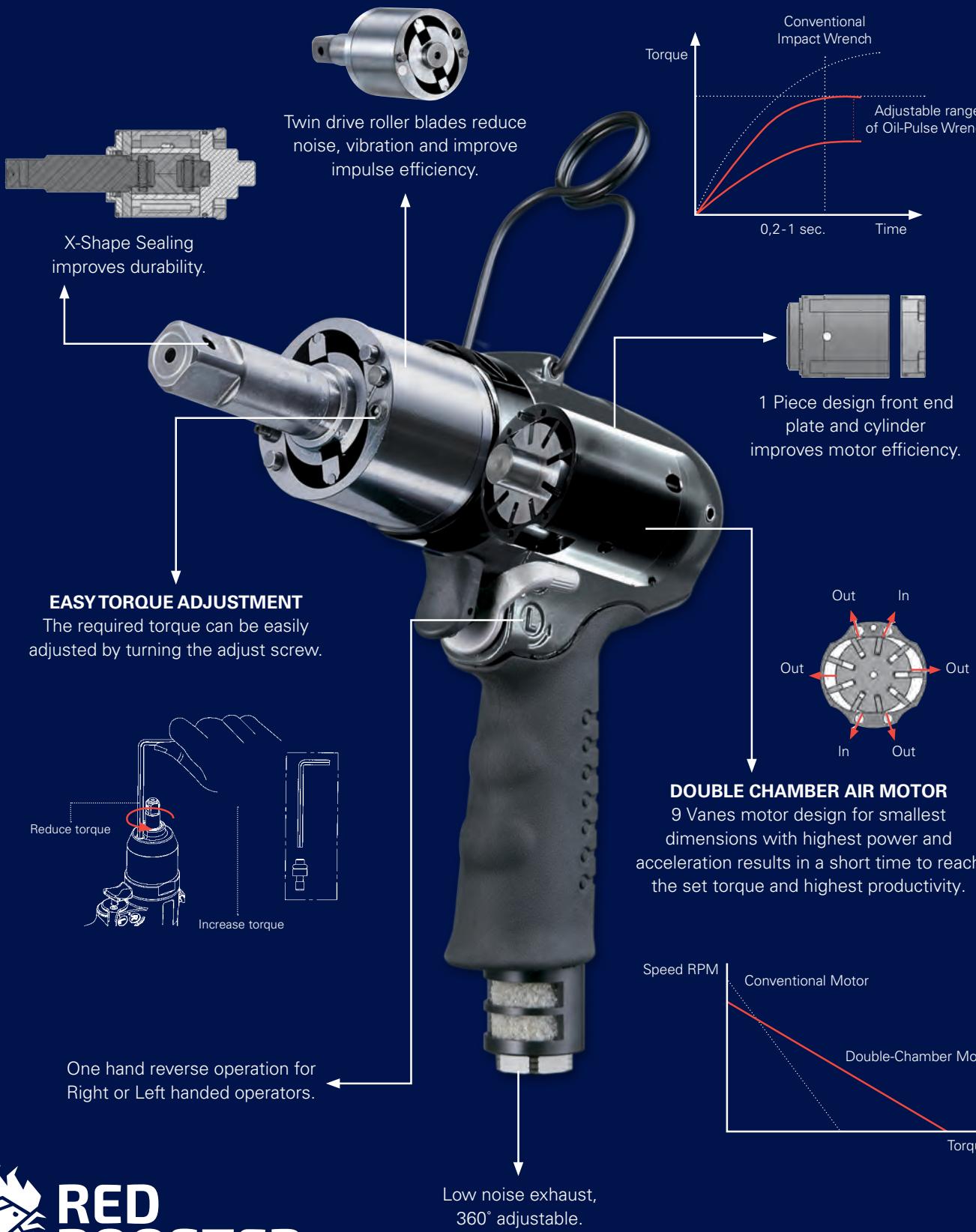
Red Rooster Assembly offers you a full range of high quality assembly tools. With years of experience in the assembly industry and through intensive cooperation with our customers, we have developed an extensive and complete range with specific attention for ergonomics, efficiency and durability. The assortment of Red Rooster Assembly tools is often complemented when new developments take place. The possibilities offered by improved battery technology have resulted in an extensive cordless range of tools. The combination of cordless tools and air tools offers the customer the opportunity to implement the most optimal solution. Whether a sustainable set up for a permanent workplace is required, or more flexibility for the operator, your productivity matters to us.





PNEUMATIC IMPULSE WRENCHES

Main Features



SHUT OFF IMPULSE WRENCHES

RRI-T Series: Pistol Models



1/4" Hex drive

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30AT	1/4" Hex	6	4.600	6 - 12,5	3,7	0,89	PT 1/4"	6,5	78
RRI-40AT	1/4" Hex	6-8	4.600	10 - 18	3,7	0,92	PT 1/4"	6,5	78
RRI-50AT	1/4" Hex	8	7.200	16 - 26	5,3	0,92	PT 1/4"	6,5	80
RRI-60AT	1/4" Hex	8	6.200	20 - 30	6,2	1,0	PT 1/4"	8	82
RRI-70AT	1/4" Hex	10	7.200	32 - 47	7	1,35	PT 1/4"	8	82



3/8"-1/2"-3/4" Square drive

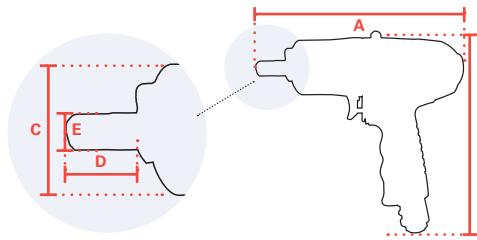
Type	Square / Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30T	3/8" Square	6	4.600	7 - 12,5	3,7	0,89	PT 1/4"	6,5	78
RRI-40T	3/8" Square	6-8	4.600	11 - 19	3,7	0,92	PT 1/4"	6,5	78
RRI-50T	3/8" Square	8	7.200	16 - 27	5,3	0,92	PT 1/4"	6,5	80
RRI-60T	3/8" Square	8-10	6.200	22 - 35	6,2	1	PT 1/4"	8	82
RRI-70T	3/8" Square	10	7.200	37 - 57	7	1,35	PT 1/4"	8	82
RRI-80T	3/8" Square	10-12	5.100	40 - 68	9,3	1,21	PT 1/4"	8	82
RRI-90T	1/2" Square	12	5.400	64 - 90	8,3	1,55	PT 1/4"	8	83
RRI-100T	1/2" Square	12-14	5.300	85 - 120	8,7	1,87	PT 1/4"	8	84
RRI-130T	1/2" Square	14-16	3.600	123 - 148	11,6	2,26	PT 1/4"	11	86
RRI-150T	3/4" Square	16	3.700	165 - 210	11,6	3,10	PT 1/4"	11	86
RRI-180T	3/4" Square	16-18	2.700	180 - 255	12,2	3,8	PT 1/4"	11	86
RRI-200T	3/4" Square	18-20	3.000	230 - 450	26	4,25	PT 3/8"	12,7	88



DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-30AT	163	168	Ø46	21	Ø17,5
RRI-40AT	170	168	Ø46	27	Ø17,5
RRI-50AT	170	168	Ø46	27	Ø17,5
RRI-60AT	181	168	Ø46	27	Ø17,5
RRI-70AT	194	172	Ø53,5	28	Ø17,5
RRI-30T	163	168	Ø46	24	Ø12
RRI-40T	167	168	Ø46	24	Ø12
RRI-50T	167	168	Ø46	24	Ø12
RRI-60T	178	168	Ø46	24	Ø12
RRI-70T	194	172	Ø53,5	25	Ø12
RRI-80T	194	170	Ø53,5	25	Ø12
RRI-90T	200	192	Ø53,5	31	Ø16

Type	A mm	B mm	C mm	D mm	E mm
RRI-100T	209	195	Ø59	32	Ø16
RRI-130T	216	204	Ø64	31	Ø16
RRI-150T	239	215	Ø72	40	Ø25
RRI-180T	263	232	Ø78	41	Ø25
RRI-200T	250	239	Ø80	41	Ø25



SHUT OFF IMPULSE WRENCHES



RRI-T Series: Straight Models

1/4" Hex drive



Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30STA	1/4"	6	4.200	6 - 11,5	3,7	0,77	PT 1/4"	6,5	78
RRI-40STA	1/4"	6-8	4.200	10 - 17	3,7	0,8	PT 1/4"	6,5	78
RRI-50STA	1/4"	8	6.800	15 - 25	5,3	0,8	PT 1/4"	6,5	80
RRI-60STA	1/4"	8	6.000	20 - 30	6,2	0,86	PT 1/4"	8	80
RRI-70STA	1/4"	8-10	5.000	28 - 40	6,2	0,97	PT 1/4"	8	80

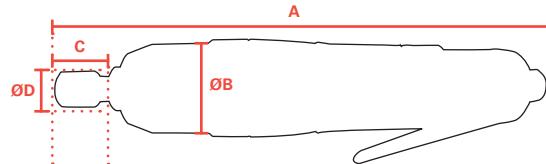
3/8" Square drive



Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30ST	3/8"	6	4.200	7 - 12,5	3,7	0,8	PT 1/4"	6,5	78
RRI-40ST	3/8"	6-8	4.200	11 - 19	3,7	0,8	PT 1/4"	6,5	78
RRI-50ST	3/8"	8	6.800	16 - 27	5,3	0,8	PT 1/4"	6,5	80
RRI-60ST	3/8"	8-10	6.000	22 - 35	6,2	0,86	PT 1/4"	8	80
RRI-70ST	3/8"	10	5.000	31 - 47	6,2	0,97	PT 1/4"	8	80
RRI-80ST	3/8"	10-12	6.100	40 - 68	9,3	1,15	PT 1/4"	8	82

DIMENSIONS

Type	A mm	B mm	C mm	D mm
RRI-30STA	219	Ø46	21	Ø17,5
RRI-40STA	224	Ø46	27	Ø17,5
RRI-50STA	224	Ø46	27	Ø17,5
RRI-60STA	225	Ø46	27	Ø17,5
RRI-70STA	244	Ø48	27	Ø17,5
RRI-30ST	219	Ø46	24	Ø12
RRI-40ST	221	Ø46	24	Ø12
RRI-50ST	221	Ø46	24	Ø12
RRI-60ST	231	Ø46	24	Ø12
RRI-70ST	244	Ø48	25	Ø12
RRI-80ST	244	Ø53,5	25	Ø12



SHUT OFF IMPULSE WRENCHES

RRI-T Series: Angle Models



1/4" Hex drive



Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-50RTA	1/4"	6-8	4.300	9,5 - 16	4,8	1,2	PT 1/4"	6,5	80
RRI-60RTA	1/4"	8	4.700	15 - 22	6,2	1,3	PT 1/4"	8	80
RRI-70RTA	1/4"	8	4.500	20 - 29	6,2	1,4	PT 1/4"	8	80

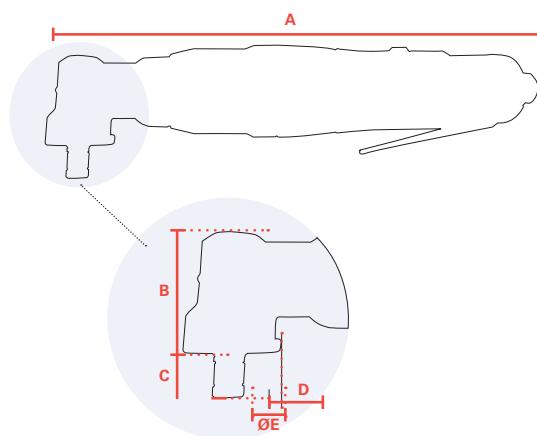
3/8" Square drive



Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-50RT	3/8"	6-8	4.300	10,5 - 17	4,8	1,2	PT 1/4"	6,5	80
RRI-60RT	3/8"	8	4.700	16 - 24	6,2	1,3	PT 1/4"	8	80
RRI-70RT	3/8"	8-10	4.500	22 - 31	6,2	1,4	PT 1/4"	8	80
RRI-70RGT	3/8"	10	2.000	32 - 45	6,2	1,6	PT 1/4"	8	82
RRI-70RHT	3/8"	10-12	2.200	46 - 60	6,2	1,6	PT 1/4"	8	82
RRI-80RHT	3/8"	10-12	2.800	50 - 70	9,3	1,7	PT 1/4"	8	82

DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-50RTA	253	45	16	16	Ø11
RRI-60RTA	264	45	16	16	Ø11
RRI-70RTA	272	45	16	16	Ø11
RRI-50RT	253	45	14	16	Ø12
RRI-60RT	264	45	14	16	Ø12
RRI-70RT	272	45	14	16	Ø12
RRI-70RGT	281	47	14	21	Ø16
RRI-70RHT	281	47	21	21	Ø16
RRI-80RHT	281	47	21	21	Ø16



NON SHUT OFF IMPULSE WRENCHES



RRI Series: Pistol Models

1/4" Hex drive



Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30A	1/4"	6	4.600	6 - 12,5	3,7	0,87	PT 1/4"	6,5	78
RRI-40AX	1/4"	6-8	4.600	10 - 18	3,7	0,74	PT 1/4"	6,5	78
RRI-50AX	1/4"	8	7.200	16 - 26	5,3	0,9	PT 1/4"	6,5	80
RRI-60AX	1/4"	8	6.200	20 - 30	6,2	0,81	PT 1/4"	8	82
RRI-70A	1/4"	10	7.200	32 - 47	7	1,33	PT 1/4"	8	82

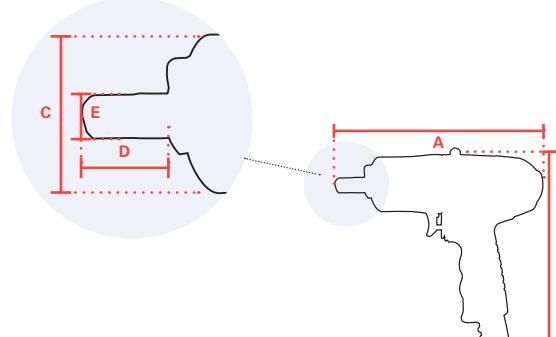
3/8" - 1/2" - 3/4" Square drive



Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30	3/8"	6	4.600	7 - 12,5	3,7	0,87	PT 1/4"	6,5	78
RRI-40X	3/8"	6-8	4.600	11 - 19	3,7	0,74	PT 1/4"	6,5	78
RRI-50X	3/8"	8	7.200	16 - 27	5,3	0,74	PT 1/4"	6,5	80
RRI-60X	3/8"	8-10	6.200	22 - 35	6,2	0,81	PT 1/4"	8	82
RRI-70	3/8"	10	7.200	37 - 57	7	1,33	PT 1/4"	8	82
RRI-80	3/8"	10-12	5.100	40 - 70	9,3	1,19	PT 1/4"	8	82
RRI-90	1/2"	12	5.400	64 - 90	8,3	1,53	PT 1/4"	8	83
RRI-100	1/2"	12-14	5.300	85 - 120	8,7	1,85	PT 1/4"	8	84
RRI-130	1/2"	14-16	3.600	123 - 148	11,6	2,22	PT 1/4"	11	86
RRI-150	3/4"	16	3.700	165 - 210	11,6	3,05	PT 1/4"	11	86
RRI-180	3/4"	16-18	2.700	180 - 255	12,2	3,8	PT 1/4"	11	86
RRI-200	3/4"	18-20	3.000	220 - 390	26	4,25	PT 3/8"	13	88

DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-30/30A	167	168	Ø46	24	Ø12
RRI-40X/40AX	147	168	Ø46	24	Ø12
RRI-50X/50A	147	168	Ø46	24	Ø12
RRI-60X/60AX	158	168	Ø46	24	Ø12
RRI-70/70A	194	192	Ø53,5	25	Ø12
RRI-80	194	170	Ø53,5	25	Ø12
RRI-90	200	192	Ø53,5	31	Ø16
RRI-100	209	195	Ø59	32	Ø16
RRI-130	216	204	Ø64	31	Ø16
RRI-150	238	215	Ø72	40	Ø25
RRI-180	263	232	Ø78	41	Ø25
RRI-200	250	239	Ø80	41	Ø25



NON SHUT OFF IMPULSE WRENCHES

RRI Series: Straight Models



1/4" Hex drive

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30SA	1/4"	6	4.200	6 - 11,5	3,7	0,77	PT 1/4"	6,5	78
RRI-40SA	1/4"	6-8	4.200	10 - 17	3,7	0,8	PT 1/4"	6,5	78
RRI-50SA	1/4"	8	6.800	15 - 25	5,3	0,8	PT 1/4"	6,5	80
RRI-60SA	1/4"	8	6.000	20 - 30	6,2	0,86	PT 1/4"	8	80
RRI-70SA	1/4"	8-10	5.000	28 - 40	6,2	0,97	PT 1/4"	8	80



1/4" Square drive

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-30S	3/8"	6	4.200	7 - 12,5	3,7	0,8	PT 1/4"	6,5	78
RRI-40S	3/8"	6-8	4.200	11 - 19	3,7	0,8	PT 1/4"	6,5	78
RRI-50S	3/8"	8	6.800	16 - 27	5,3	0,8	PT 1/4"	6,5	80
RRI-60S	3/8"	8-10	6.000	22 - 35	6,2	0,86	PT 1/4"	8	80
RRI-70S	3/8"	10	5.000	31 - 47	6,2	0,97	PT 1/4"	8	80

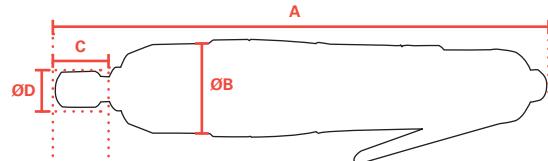


CUSTOM MADE PRODUCTS

See page 41 for impulse wrenches tailored to your specific needs.

DIMENSIONS

Type	A mm	B mm	C mm	D mm
RRI-30SA	219	Ø46	21	Ø17,5
RRI-40SA	224	Ø46	27	Ø17,5
RRI-50SA	224	Ø46	27	Ø17,5
RRI-60SA	235	Ø46	27	Ø17,5
RRI-70SA	244	Ø48	27	Ø17,5
RRI-30S	219	Ø46	24	Ø12
RRI-40S	221	Ø46	24	Ø12
RRI-50S	221	Ø46	24	Ø12
RRI-60S	221	Ø46	24	Ø12
RRI-70S	244	Ø48	25	Ø12



NON SHUT OFF IMPULSE WRENCHES



RRI Series: Angle Models



1/4" Hex drive

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-50RA	1/4"	6-8	4.300	9,5 - 16	4,8	1,2	PT 1/4"	6,5	80
RRI-60RA	1/4"	8	4.700	15 - 22	6,2	1,3	PT 1/4"	8	80
RRI-70RA	1/4"	8	4.500	20 - 29	6,2	1,4	PT 1/4"	8	80



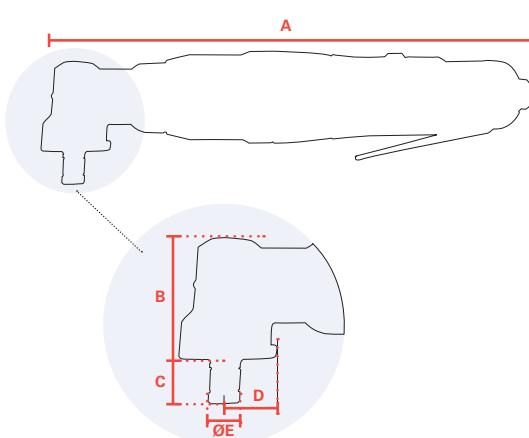
1/2" - 3/8" Square drive

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air consumption l/sec	Weight kg	Inlet-thread	Hose diameter mm	Noise-level dB(A)
RRI-50R	3/8"	6-8	4.300	10,5 - 17	4,8	1,2	PT 1/4"	6,5	80
RRI-60R	3/8"	8	4.700	16 - 24	6,2	1,3	PT 1/4"	8	80
RRI-70R	3/8"	8-10	4.500	22 - 31	6,2	1,4	PT 1/4"	8	80
RRI-70RG	3/8"	10	2.000	34 - 50	6,2	1,6	PT 1/4"	8	82
RRI-70RH	1/2"	10 - 12	2.200	46 - 60	6,2	1,6	PT 1/4"	8	82



CUSTOM MADE PRODUCTS

See page 41 for impulse wrenches tailored to your specific needs.



DIMENSIONS

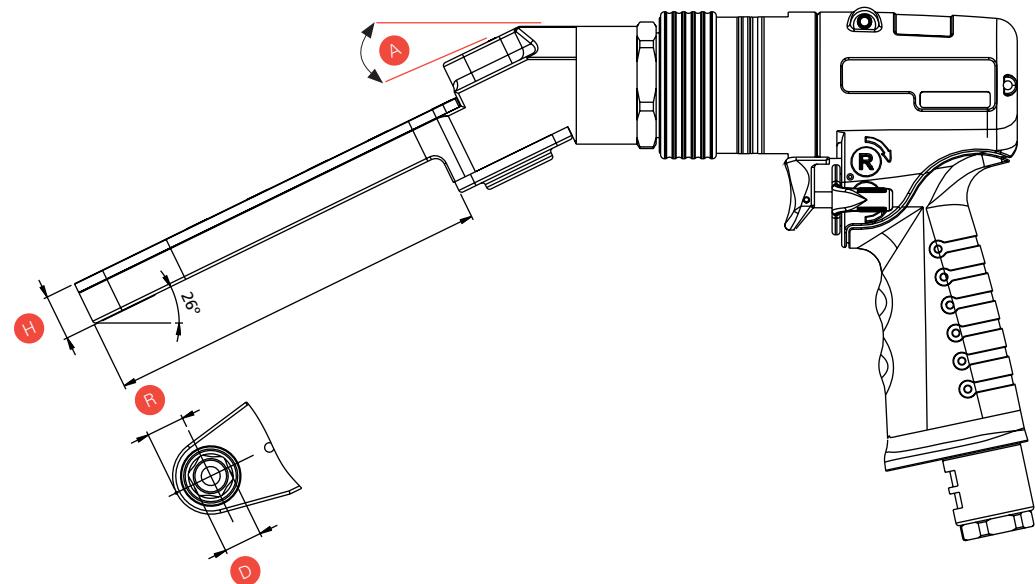
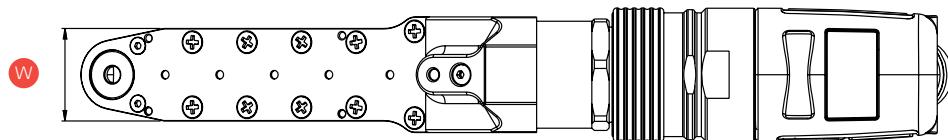
Type	A mm	B mm	C mm	D mm	E mm
RRI-50RA	253	45	16	16	Ø11
RRI-60RA	264	45	16	16	Ø11
RRI-70RA	272	45	16	16	Ø11
RRI-50R	253	45	14	16	Ø12
RRI-60R	264	45	14	16	Ø12
RRI-70R	272	45	14	16	Ø12
RRI-70RG	281	47	14	21	Ø12
RRI-70RH	281	47	21	21	Ø16

IMPULSE WRENCHES

Custom Made Products

For narrow space applications we offer geared offset tools with a torque range of 6-300 Nm.

- Installation in places where access is restricted.
- Flat output with non shut-off impulse wrench



Please fill this form and contact us with your request for a tailor-made solution

Torque Nm	Pistol model Straight model Angle model	W*	A	D* Hexagon dimension	H* mm	L* mm	R* mm
	<input type="checkbox"/> Pistol <input type="checkbox"/> Straight <input type="checkbox"/> Angle mm	<input type="checkbox"/> 0° <input type="checkbox"/> 26° <input type="checkbox"/> 90° mm mm mm mm

* Maximum dimensions

EXAMPLES

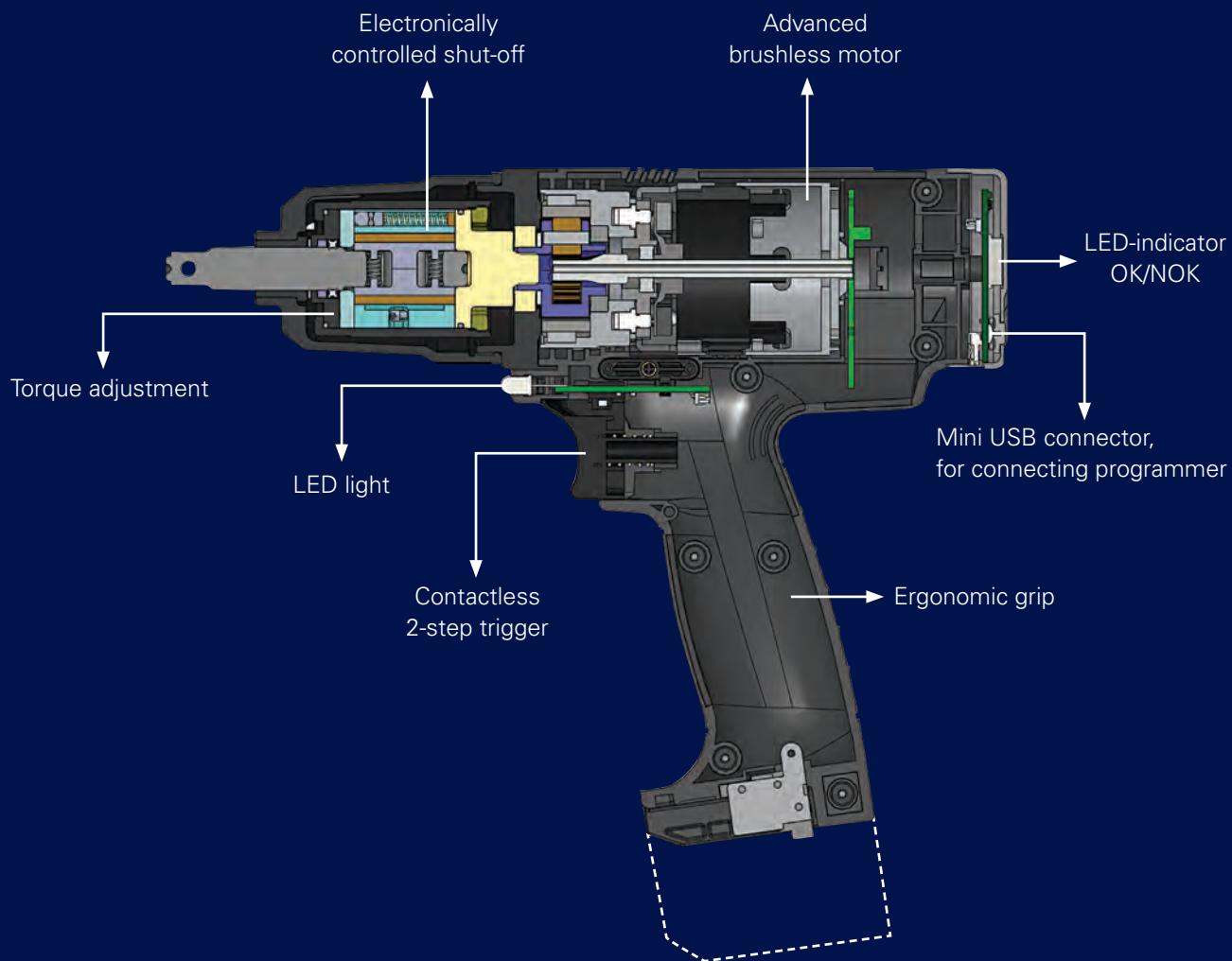


CORDLESS IMPULSE WRENCHES



Cordless
Impulse
Wrenches

Main Features



SHUT OFF IMPULSE WRENCHES

RRI-BIM Series: Cordless



Cordless
Impulse
Wrenches

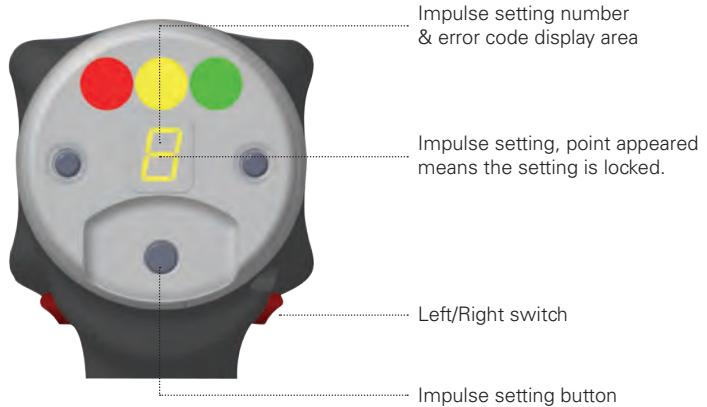
LED INDICATOR OK/NOK

BLOCKING ADJUSTMENT OF THE SHUT-OFF

- Remove battery
- Mount battery and simultaneously push trigger and L/R
- Switch until sound signal (5 seconds), then release trigger and L/R Switch.
- Deblocking = same

BLOCKING UN-TIGHTENING

- Remove battery
- Mount battery and simultaneously push trigger and L/R
- Switch until sound signal (5 seconds)
- Deblocking = same



FLASHING YELLOW
+ FLASHING GREEN
reverse operation



GREEN
tightening OK



RED
tightening NOK



FLASHING YELLOW
low battery warning



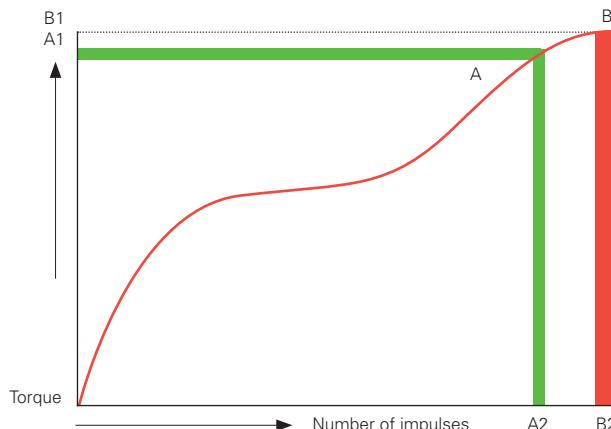
YELLOW
change battery



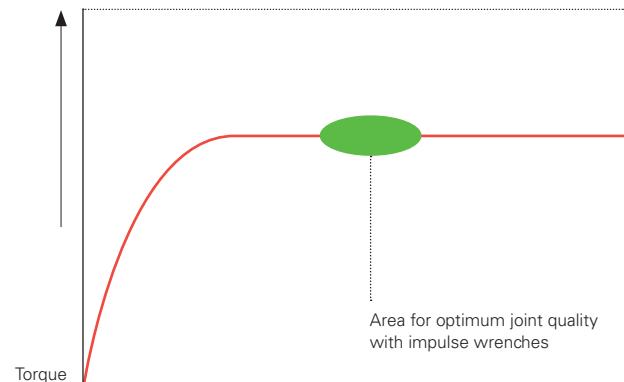
ALUMINIUM COVER
FOR EXTRA
PROTECTION
See accessories
on page 30.

MECHANICAL SHUT-OFF OR ELECTRONIC CONTROLLED SHUT-OFF IMPULSE WRENCHES

JOINT QUALITY



A: shut-off area of mechanical shut-off impulse wrenches
B: shut-off area of electronic controlled shut-off impulse wrenches. Optimum tension with lower relaxation.



For hard joints: numerical setting: (2-3-4)
For middle soft joints: numerical setting: (4-5-6)
For soft joints: numerical setting: (6-7-8-9)

SHUT OFF IMPULSE WRENCHES



Cordless
Impulse
Wrenches

RRI-BIM Series: Cordless

These cordless shut-off impulse wrenches combine high tightening speeds with high accuracy and no reaction force. The no tightening functionality when the battery charge is low improves the process safety. Very well suited for areas where cables and hoses impede handling flexibility of tools, such as interiors of cars, coaches and trains.

CHARACTERISTICS

- Brushless motor
- 18 Volt Lithium-Ion battery (choice for 2,0 Ah or 4,0 Ah capacity)
- LED status indicates: Reverse, OK, NOK, Battery low
- Torque adjustable
- Fine-tuning on hardness of the joint, electronically
- Non-contact trigger with 2 steps
- Run-down speed up to 4.500 RPM



Battery, charger, programmer and power cord have to be ordered separately. See page 52.

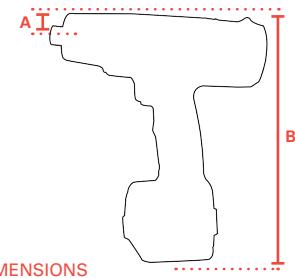
Type	Square/ Hex drive	Torque Nm	RPM	Weight kg	Dimensions A mm	B mm
RRI-BIM15AT	1/4" Hex	7-15	4.500	1,16	29	227
RRI-BIM15T	3/8" Square	8-15	4.500	1,16	29	224
RRI-BIM25AT	1/4" Hex	14-23	4.500	1,18	29	237
RRI-BIM25T	3/8" Square	15-25	4.500	1,18	29	234
RRI-BIM35T	3/8" Square	22-35	3.500	1,36	29	234
RRI-BIM45T	3/8" Square	32-45	3.500	1,42	29	244
RRI-BIM65T	1/2" Square	45 - 65	3.200	1,90	29	244



Efficient Power Regulation



Advanced Torque Technology



CHARACTERISTICS



ACCESSORIES



Rubber protection
cover



Aluminium cover



Service Kit

Rubber protection cover	Order number
RRI-BIM15T (AT)	C16PW-15
RRI-BIM25T (AT)	C16PW-25
RRI-BIM35T	C16PW-25
RRI-BIM45T	C16PW-45
RRI-BIM65T	C16PW65
Aluminium cover	Order number
RRI-BIM serie	B10PW15
Service Kits:	Order number
RRI-BIM15T (AT)	I40RK
RRI-BIM25T (AT)	I70RK
RRI-BIM35T	I70RK
RRI-BIM45T	I80RK-YO
RRI-BIM65T	32399-001



RED
ROOSTER

RAMI YOKOTA BV
DE RUYTERKADE 120, NL-1011 AB AMSTERDAM

RED
ROOSTER
LEADING IN AIR POWER TOOL SOLUTIONS

RED
ROOSTER
18V 2,0 Ah Li-ion

P O W E R D B Y



BOSCH

PNEUMATIC SCREWDRIVERS



Main features

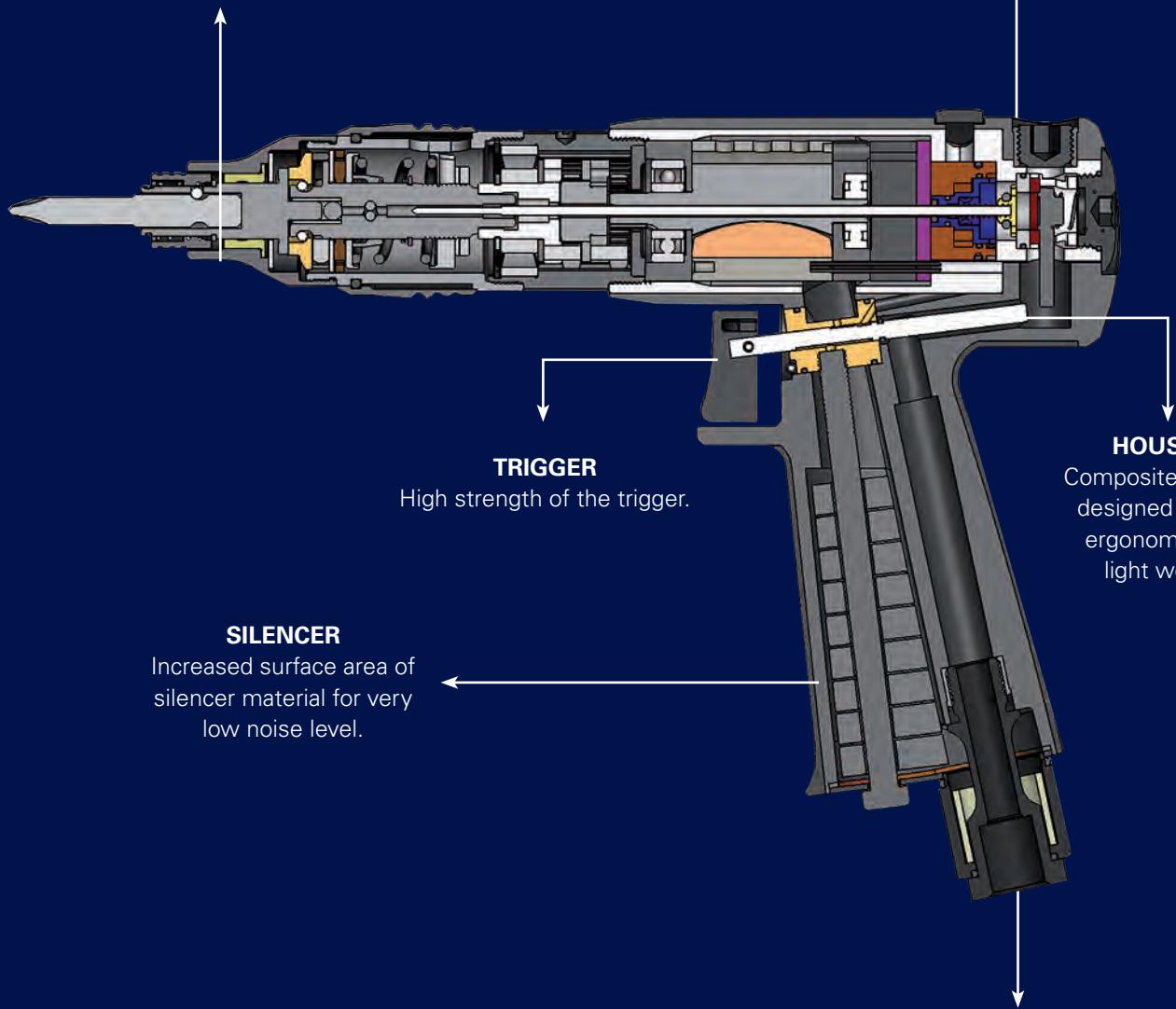
SHUT-OFF CLUTCH

Construction and geometry of the shut-off clutch mechanism designed for:

- High accuracy ($Cmk>2$ at $\pm 10\%$)
- Minimised reaction forces

CONNECTIVITY

Possibility to connect air on top.



SHUT OFF SCREWDRIVERS

RRI-S Series: Pistol Models

These RED ROOSTER shut-off screwdrivers have a large torque-range, are highly accurate, have a low vibration and noise level and a very ergonomic design. The special design of the clutch combines low reaction forces with a high repeatability of the torque. This air tool is designed for the assembly industry, where threaded fasteners are used. The wide range of different speeds always allows the best choice for the application. Low speed for plastics and hose clamps, high speeds for machined screws.

CHARACTERISTICS

- Composite housing
- Reversible
- Rear-exhaust, silenced
- Ergonomic grip, trigger start
- Easily adjustable
- Pistol model air on top
- Large torque range
- Delivery includes hanger
- Side grip delivered with size 3 tools

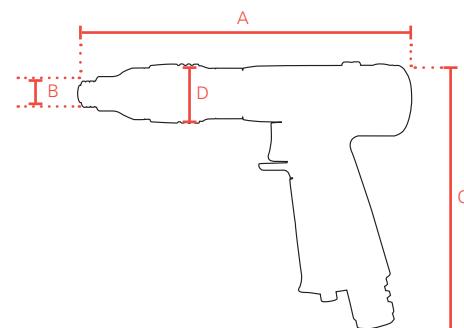


Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s²	Noise level dB(A)
RRI-SP10502	RRI	1/4" Hex	4	550	1,0 - 2,5	8	0,77	1/4"	6,5	<2,5	68
RRI-SP11602	RRI	1/4" Hex	4	1.600	0,4 - 1,8	8	0,77	1/4"	6,5	<2,5	68
RRI-SP10902	RRI	1/4" Hex	4	900	0,4 - 2,2	8	0,77	1/4"	6,5	<2,5	68
RRI-SP21704	RRI	1/4" Hex	4	1.700	1 - 3,5	10	0,98	1/4"	6,5	<2,5	72
RRI-SP21104	RRI	1/4" Hex	4	1.100	1,5 - 4	10	0,98	1/4"	6,5	<2,5	72
RRI-SP20705	RRI	1/4" Hex	4	700	1,5 - 4,5	10	0,98	1/4"	6,5	<2,5	72
RRI-SP31706	RRI	1/4" Hex	5	1.700	3,5 - 5,2	12	1,1	1/4"	6,5	<2,5	72
RRI-SP31108	RRI	1/4" Hex	5	1.100	3,5 - 6,3	12	1,1	1/4"	6,5	<2,5	72
RRI-SP30710	RRI	1/4" Hex	6	700	3,5 - 8,2	12	1,1	1/4"	6,5	<2,5	72
RRI-SP30511	RRI	1/4" Hex	6	550	3,5 - 10	12	1,1	1/4"	6,5	<2,5	72

* The indicated torque levels are measured on hard joints.

DIMENSIONS

Type	A mm	B mm	C mm	Ø D mm	Size
RRI-SP10502	198	16	157	31	1
RRI-SP11602	198	16	157	31	1
RRI-SP10902	198	16	157	31	1
RRI-SP21704	209	18	157	34,5	2
RRI-SP21104	209	18	157	34,5	2
RRI-SP20705	209	18	157	34,5	2
RRI-SP31706	238	18	156	34,5	3
RRI-SP31108	238	18	157	34,5	3
RRI-SP30710	238	18	157	34,5	3
RRI-SP30511	238	18	157	34,5	3



ACCESSORIES



Side grip for Size 2 & 3 tools
Order number: 766-027*
* At size 3 supplied as standard



Torque adjustment key
Order number: 00-4507*
* Supplied as standard



Tool holder
Order number:
61022-TH001



Pneumatic
Screwdriver

SHUT OFF SCREWDRIVERS



RRI-S Series: Straight Models

CHARACTERISTICS

- New straight design with soft grip
- Reversible
- Rear-exhaust, silenced
- Ergonomic grip, lever start or push start
- Easily adjustable
- Delivery includes hanger
- Large torque range
- Side grip delivered with size 3 tools



Push start type



Lever start type

SHUT-OFF SCREWDRIVERS PUSH START TYPE

Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-SD11602	RRI	1/4" Hex	4	1.600	0,4 - 1,8	8	0,54	1/4"	6,5	<2,5	68
RRI-SD10902	RRI	1/4" Hex	4	900	0,4 - 2,2	8	0,54	1/4"	6,5	<2,5	68
RRI-SD21704	RRI	1/4" Hex	4	1.700	1 - 3,5	10	0,77	1/4"	6,5	<2,5	72
RRI-SD21104	RRI	1/4" Hex	4	1.100	1,5 - 4	10	0,77	1/4"	6,5	<2,5	72
RRI-SD20705	RRI	1/4" Hex	4	700	1,5 - 4,5	10	0,77	1/4"	6,5	<2,5	72
RRI-SD31706	RRI	1/4" Hex	5	1.700	3,5 - 5,2	12	0,89	1/4"	6,5	<2,5	72
RRI-SD31108	RRI	1/4" Hex	5	1.100	3,5 - 6,3	12	0,89	1/4"	6,5	<2,5	72
RRI-SD30710	RRI	1/4" Hex	6	700	3,5 - 8,2	12	0,89	1/4"	6,5	<2,5	72
RRI-SD30511	RRI	1/4" Hex	6	550	3,5 - 10	12	0,89	1/4"	6,5	<2,5	72

SHUT-OFF SCREWDRIVERS LEVER START TYPE

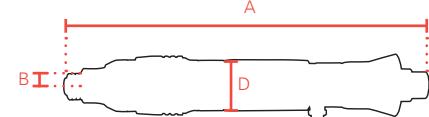
Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-SL11602	RRI	1/4" Hex	4	1.600	0,4 - 1,8	8	0,59	1/4"	6,5	<2,5	68
RRI-SL10902	RRI	1/4" Hex	4	900	0,4 - 2,2	8	0,59	1/4"	6,5	<2,5	68
RRI-SL21704	RRI	1/4" Hex	4	1.700	1 - 3,5	10	0,84	1/4"	6,5	<2,5	72
RRI-SL21104	RRI	1/4" Hex	4	1.100	1,5 - 4	10	0,84	1/4"	6,5	<2,5	72
RRI-SL20705	RRI	1/4" Hex	4	700	1,5 - 4,5	10	0,84	1/4"	6,5	<2,5	72
RRI-SL31706	RRI	1/4" Hex	5	1.700	3,5 - 5,2	12	0,93	1/4"	6,5	<2,5	72
RRI-SL31108	RRI	1/4" Hex	5	1.100	3,5 - 6,3	12	0,93	1/4"	6,5	<2,5	72
RRI-SL30710	RRI	1/4" Hex	6	700	3,5 - 8,2	12	0,93	1/4"	6,5	<2,5	72
RRI-SL30511	RRI	1/4" Hex	6	550	3,5 - 10	12	0,93	1/4"	6,5	<2,5	72

* The indicated torque levels are measured on hard joints.

DIMENSIONS

Type	A mm	B mm	Ø D mm	Size
RRI-SD11602	228	16	31	1
RRI-SD10902	228	16	31	1
RRI-SD21704	244	18	34,5	2
RRI-SD21104	244	18	34,5	2
RRI-SD20705	244	18	34,5	2
RRI-SD31706	276	18	34,5	3
RRI-SD31108	276	18	34,5	3
RRI-SD30710	276	18	34,5	3
RRI-SD30511	276	18	34,5	3

Type	A mm	B mm	Ø D mm	Size
RRI-SL11602	244	16	31	1
RRI-SL10902	244	16	31	1
RRI-SL21704	263	18	34,5	2
RRI-SL21104	263	18	34,5	2
RRI-SL20705	263	18	34,5	2
RRI-SL31706	263	18	34,5	3
RRI-SL31108	309	18	34,5	3
RRI-SL30710	309	18	34,5	3
RRI-SL30511	309	18	34,5	3



For torque adjustment key and side grip for screwdrivers with size 3 see page 47.

SHUT OFF SCREWDRIVERS

RRI-S Series: Angle Models



CHARACTERISTICS

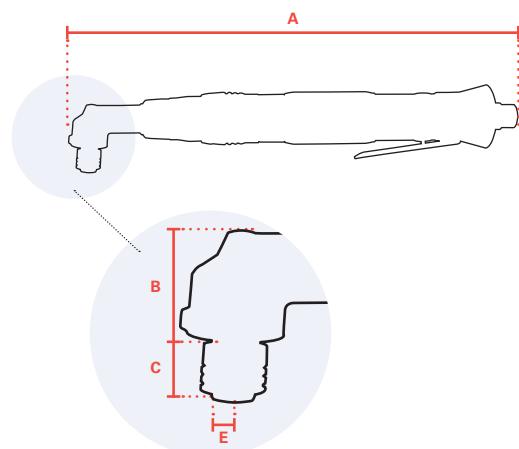
- New angled body-design with soft grip
- Reversible
- Rear-exhaust, silenced
- Ergonomic grip, lever start
- Easily adjustable
- Delivery includes hanger
- Large torque range



Type	Brand	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm	Air-conc. l/s	Weight kg	Inlet- thread	Hose- diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-SA11602	RRI	1/4" Hex	4	1.600	0,4 - 1,8	8	0,82	1/4"	6,5	<2,5	68
RRI-SA10902	RRI	1/4" Hex	4	900	0,4 - 2,2	8	0,82	1/4"	6,5	<2,5	68
RRI-SA21704	RRI	1/4" Hex	4	1.700	1 - 3,5	10	1,02	1/4"	6,5	<2,5	72
RRI-SA21104	RRI	1/4" Hex	4	1.100	1,5 - 4	10	1,02	1/4"	6,5	<2,5	72
RRI-SA20705	RRI	1/4" Hex	4	700	1,5 - 4,5	10	1,02	1/4"	6,5	<2,5	72
RRI-SA31108	RRI	1/4" Hex	5	1.100	3,5 - 6,3	12	1,36	1/4"	6,5	<2,5	72
RRI-SA30710	RRI	1/4" Hex	6	700	3,5 - 7,2	12	1,36	1/4"	6,5	<2,5	72
RRI-SA30511	RRI	1/4" Hex	6	550	3,5 - 10	12	1,36	1/4"	6,5	<2,5	72
RRI-SA31108W	RRI	3/8" Square	5	1.100	3,5 - 6,3	12	1,36	1/4"	6,5	<2,5	72
RRI-SA30710W	RRI	3/8" Square	6	700	3,5 - 8,2	12	1,36	1/4"	6,5	<2,5	72
RRI-SA30511W	RRI	3/8" Square	6	550	3,5 - 10	12	1,36	1/4"	6,5	<2,5	72

DIMENSIONS

Type	A mm	B mm	C mm	E mm
RRI-SA11602	294	29	16,1	12
RRI-SA10902	294	29	16,1	12
RRI-SA21704	314	29	16,1	12
RRI-SA21104	314	29	16,1	12
RRI-SA20705	314	30,5	15,8	13,5
RRI-SA31108	350	30,5	15,8	13,5
RRI-SA30710	350	30,5	15,8	13,5
RRI-SA30511	350	30,5	15,8	13,5
RRI-SA31108W	350	30,5	15,8	13,5
RRI-SA30710W	350	30,5	15,8	13,5
RRI-SA30511W	350	30,5	15,8	13,5



ACCESSORIES

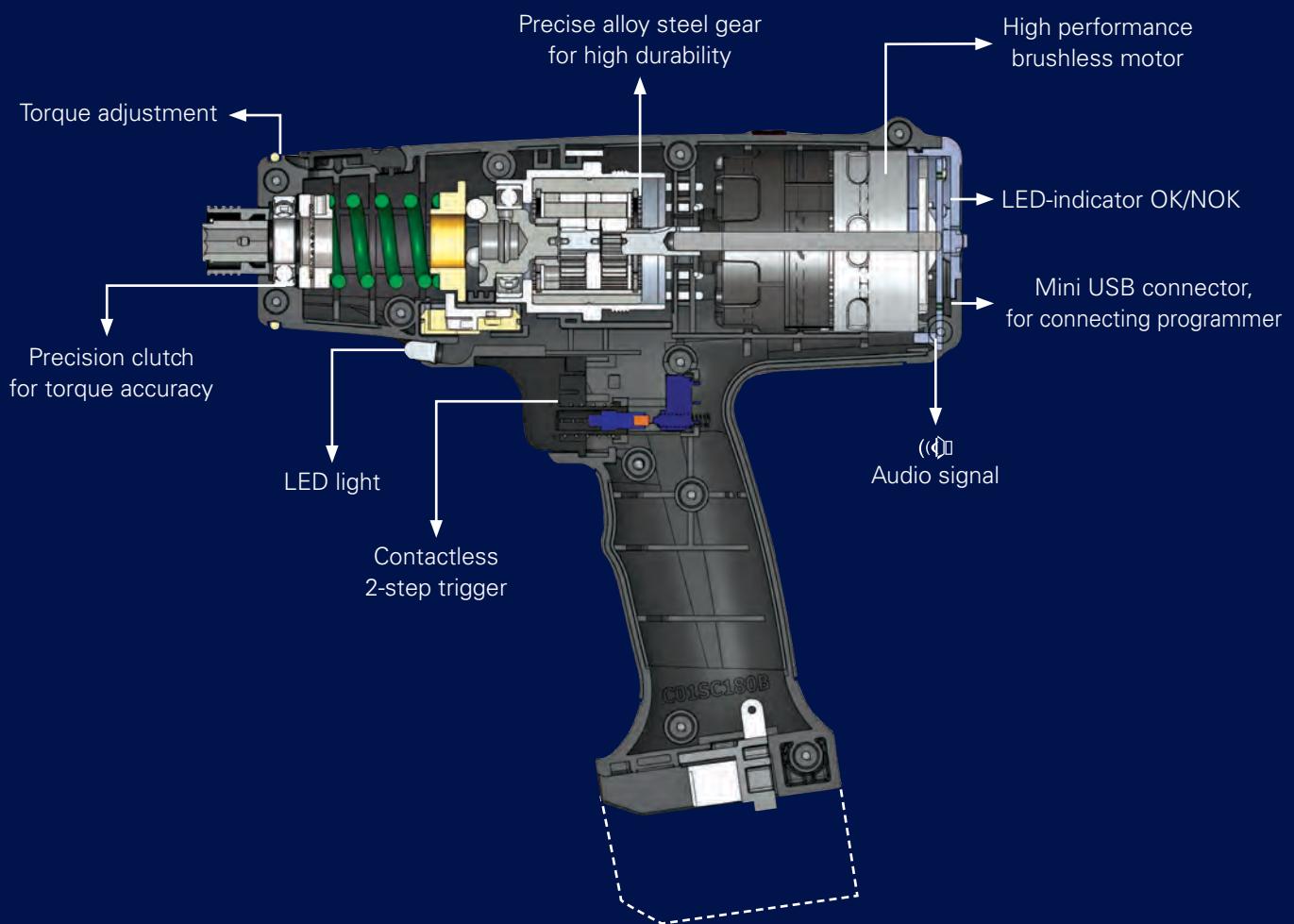


Torque adjustment tool
Order number: 00-4507*
* Supplied as standard

Cordless
Screwdriver

CORDLESS SCREWDRIVERS

Main features



SHUT OFF SCREWDRIVERS

RRI-BS Series: Cordless

The Red Rooster cordless shut-off screwdriver is very well suited for assembly applications with a need for good torque accuracy. Especially in areas where cables and hoses impede handling flexibility, such as interiors of cars, coaches and trains.

CHARACTERISTICS

- Torque accuracy:
meet ISO 5393 Cmk>2 at $\pm 10\%$ tolerance.
- Precision clutch with low reaction forces.
- Trigger repeat protection avoids "double hits".
- Brushless motor: ensures low maintenance.
- Highly durable gear: ensures low maintenance.
- Precision shut-off clutch: ensures quality in tightening.
- Ergonomic rubber grip: ensures operator performance.
- Delivery includes hanger bracket.

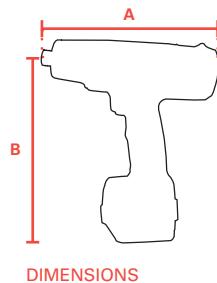


Choice of four rings
with different colours
to distinguish the torque.

EPR IBT
Efficient Power Regulation Intelligent Bolting Technology

Type	Volt V	Drive size	Screw size mm	Torque range Nm	RPM	Weight (w/o battery) kg	Dimensions A mm	B mm
RRI-BS3	18 V	1/4" Hex	M3 - M4	0,8-3	500-1.550	0,95	203	238
RRI-BS6	18 V	1/4" Hex	M3 - M5	1-6	300-900	0,95	203	238
RRI-BS9	18 V	1/4" Hex	M3 - M5	1,5-9	300-700	0,95	203	238
RRI-BS12	18 V	1/4" Hex	M4 - M6	2-12	250-550	0,95	203	238

Battery, charger, programmer and power cord have to be ordered separately, see page 52.



DIMENSIONS

PROGRAMMER



FEATURES

- One programmer fits all RRI-BS series tools
- Easy to set the tool speed:
 - high speed for metallic assemblies
 - medium speed for plastic assemblies
 - low speed for special assemblies
- Total used time memory function
- Total count memory function
- Operation count memory function
- Tool identification number

- A green light tells the operator that the preset torque is reached and the tightening is OK.
- A red light and one long "beep" sound tells the operator that the preset torque is not reached, tightening must be performed again.
- A flashing yellow light and five short "beep" sounds give an early warning when it is time to recharge the battery.
- A yellow light and one long "beep" sound means the battery is empty and the tool can't operate. A fully charged battery should be placed to continue working.

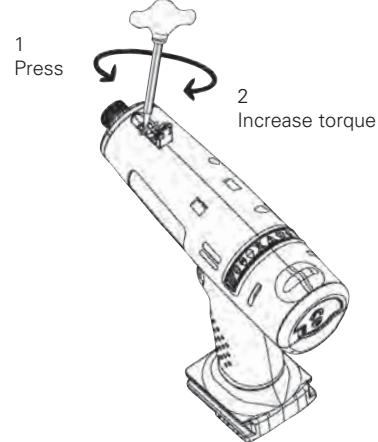
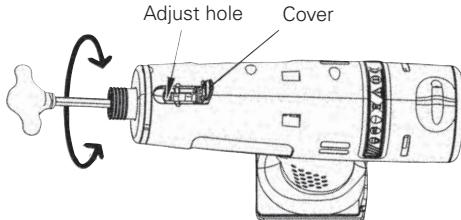


Cordless
Screwdriver

SHUT OFF SCREWDRIVERS

RRI-BS Series: Cordless

TORQUE ADJUSTMENT



1. Lift the torque adjustment over. Take the torque adjust tool and insert it to the quick change holder and turn until the adjust hole shows up.

2. Use the torque adjust tool to turn clockwise to increase torque and turn counter clockwise to decrease torque.

NOTE

To avoid danger during the adjustment process, the battery pack must be removed before adjusting the torque.

APPLICATIONS

- Assembly applications where torque accuracy is required.
- Areas where pneumatic or electric tools are impractical to use due to hoses/cables.
- Especially used on car interior assembly.
- Attaching components to the dashboard.
- Hose clips on turbo chargers and air intakes, heating and climate systems and coolant circuits.
- Assembly of components in switch cabinets.

ACCESSORIES



Torque adjustment tool
Order number 00-4507*
* Supplied as standard



Rubber protection cover
Order number C16SC180B

LI-ION BATTERY, CHARGER, PROGRAMMER, POWER CORD & RUBBER PROTECTION COVER FOR BATTERY



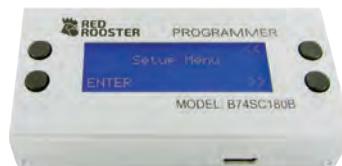
Charger



Li-on battery



Rubber protection cover
for battery



Programmer



Power cord

Type	Order number
Charger (40 min.)	B84192B
Li-Ion battery 18V 2 Ah	BB180C-320
Li-Ion battery 18V 4 Ah	BB180C-340
Rubber protection cover for battery 18V 2 Ah	C16180C-20
Rubber protection cover for battery 18V 4 Ah	C16180C-40

Type	Order number
Programmer	B74SC180B
Power cord European style	E86B-VD
Power cord English style	E86B-UK

CORDLESS WRENCHES

Main Features



Cordless
Impact
Wrenches



SHUT OFF ANGLE WRENCHES

RRI-BA Series: Cordless

These RED ROOSTER cordless angle wrenches with automatic shut-off are very well suited for assembly applications with a need of good torque accuracy. Especially for applications in areas where cables and hoses impede handling flexibility, such as interiors of cars, coaches and trains.



Cordless
Wrenches



CHARACTERISTICS

- Brushless motor
- 18 Volt Lithium-Ion battery
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Adjustable torque
- Speed 90 to 1000 RPM
- Compact and light weight
- Color ring for torque setting indication

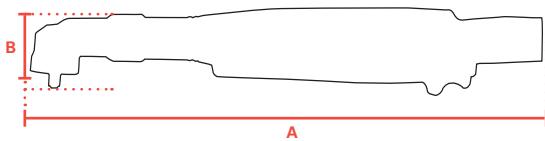
Custom made angle wrenches
See page 55 for cordless angle wrenches tailored to your specific needs.

Type	Battery voltage	Battery type	Square drive	Bolt capacity mm	RPM	Torque Nm	Weight kg	Vibration m/s ²	Noise level dB(A)
RRI-BA10S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	4-5	400-1.000	3-12	1,50	<2,5	<75
RRI-BA16S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	5-6	300-600	5-18	1,50	<2,5	<75
RRI-BA30S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	6-8	250-450	8-30	1,50	<2,5	<75
RRI-BA35S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	6-8	200-350	10-35	1,60	<2,5	<75
RRI-BA50S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	6-10	200	10-50	2,00	<2,5	<75
RRI-BA70S3	18 V	Li-Ion 2 AH / 4 AH	3/8"	8-12	170	20-70	2,50	<2,5	<75
RRI-BA90S4	18 V	Li-Ion 2 AH / 4 AH	1/2"	8-12	90	30 - 90	2,50	<2,5	<75

Battery, charger, programmer and power cord have to be ordered separately, see page 52.

DIMENSIONS

Type	A mm	B mm
RRI-BA10S3	441	76
RRI-BA16S3	441	76
RRI-BA30S3	446	76
RRI-BA35S3	446	76
RRI-BA50S3	521	76,3
RRI-BA70S3 / 90S4	535	76,3



ACCESSORIES

Rubber protection cover for type	Order number	
RRI-BA10S3	C16WR	
RRI-BA16S3		
RRI-BA30S3		
RRI-BA35S3		
RRI-BA50S3	C16WRB50	
RRI-BA70S3 / 90S4	C16WRB70	

SHUT OFF ANGLE WRENCHES

Cordless
Wrenches

Custom Made Products, Cordless, Angle Model

Angle Wrench with geared offset heads



Angle model closed



Angle model open

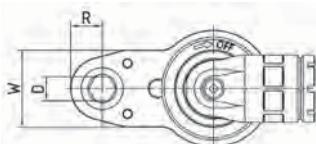


ANGLE MODEL

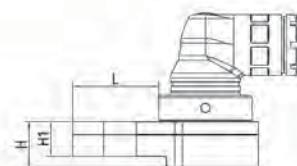
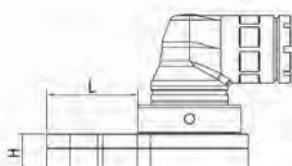
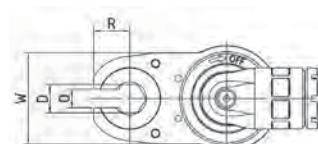
Type	Type	Volt. V	Hex Dimension Max (mm)	Weight kg	Vibration m/s ²	Noise level dB(A)	RPM	Torque range
RRI-BA10BCA	closed	18	12 ➤	2	<2.5	<75	950	3-8
RRI-BA16BCA	closed	18	12 ➤	2	<2.5	<75	600	5-13
RRI-BA30BCA	closed	18	12 ➤	2	<2.5	<75	450	8-18
RRI-BA35BCA	closed	18	12 ➤	2	<2.5	<75	350	10-24
RRI-BA10BOA	open	18	19 ➤	2,1	<2.5	<75	950	3-7
RRI-BA16BOA	open	18	19 ➤	2,1	<2.5	<75	600	5-12
RRI-BA30BOA	open	18	19 ➤	2,1	<2.5	<75	450	8-17
RRI-BA35BOA	open	18	19 ➤	2,1	<2.5	<75	350	10-23

Battery, charger, programmer and power cord have to be ordered separately, see page 52.

BC (closed)



BO (open)



Please specify your Hex dimension when ordering

DIMENSIONS

Model	W	D	O	R	L	H	H1
BC	32	11	-	13,1	37,7	16	-
BO	40	13	10,2	17	40	21	16

CUSTOM MADE PRODUCTS

Please fill in the below form and contact us for your desired geared offset heads type power tool

Model	Torque range Nm	W	D	O	R	L	L1	H	H1
<input type="checkbox"/> BC									
<input type="checkbox"/> BO									

SHUT OFF ANGLE WRENCHES

Cordless
Wrenches

Custom made products, Cordless, In-line Model

Angle Wrench with geared offset heads



In-line model closed



In-line model open



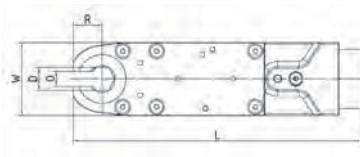
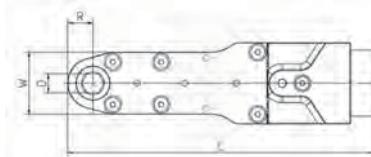
IN-LINE MODEL

Type	Type	Volt V	Hex Dimension Max (mm)	Torque range Nm	RPM	Weight w/o Batt. kg	Vibration m/s ²	Noise level dB(A)
RRI-BA10ICA	closed	18	12	5 ~ 11	620	2,2	<2,5	<75
RRI-BA16ICA	closed	18	12	8 ~ 17	380	2,2	<2,5	<75
RRI-BA30ICA	closed	18	12	11 ~ 23	300	2,2	<2,5	<75
RRI-BA35ICA	closed	18	12	14 ~ 31	220	2,2	<2,5	<75
RRI-BA10IOA	open	18	19	7 ~ 13	420	2,3	<2,5	<75
RRI-BA16IOA	open	18	19	10 ~ 22	270	2,3	<2,5	<75
RRI-BA30IOA	open	18	19	13 ~ 28	200	2,3	<2,5	<75
RRI-BA35IOA	open	18	19	16 ~ 38	160	2,3	<2,5	<75

Battery, charger, programmer and power cord have to be ordered separately, see page 52.

IC (closed)

IO (open)



Please specify your Hex dimension when ordering

DIMENSIONS

Model	W	D	O	R	L	L1	H	H1
IO	40	13	10,2	17	166,7	98,7	20	16
IC	32	10	-	13,1	159	91	16	-

CUSTOM MADE PRODUCTS

Please fill in the below form and contact us for your desired geared offset heads type power tool

Model	Torque range Nm	W	D	O	R	L	L1	H	H1
<input type="checkbox"/> IC									
<input type="checkbox"/> IO									

SHUT OFF IMPACT WRENCHES

Cordless
Wrenches

RRI-BI Series: Cordless

The Red Rooster cordless impact wrench with electronic adjustable shut-off is very well suited for assembly applications with a need of good torque accuracy. Especially in areas where cables and hoses impede handling flexibility.

CHARACTERISTICS

- Brushless motor
- 20 Volt Lithium-Ion battery
- Dynapact impact mechanism
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Adjustable torque (50 steps)
- Two step trigger
- Adjustable speed 1500 - 2000 - 2400 RPM
- Compact and light weight


EPR
Efficient Power Regulation

Type	Battery voltage	Battery type	Square drive	Bolt capacity mm	Max. RPM	Torque Nm	Weight kg	Vibration m/s ²	Noise level dB(A)
RRI-BI32T	20 V	Li-ion 2 AH	3/8" Square	6	2.400	6-32	1,0	7,8	93
RRI-BI55T	20 V	Li-ion 2 AH	3/8" Square	8	2.400	15-55	1,1	10,5	94
RRI-BI100T	20 V	Li-ion 2 AH	1/2" Square	8-10	2.400	25-100	1,1	16,4	94
RRI-BI120T	20 V	Li-ion 2 AH	1/2" Square	8-12	2.400	30-120	1,3	13,9	90

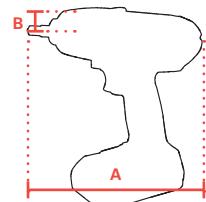
*Battery and charger have to be ordered separately

CHARACTERISTICS



DIMENSIONS

Type	A mm	B mm
RRI-BI32T	193	29
RRI-BI55T	193	29
RRI-BI100T	198	29
RRI-BI120T	198	29



ACCESSORIES



Charger Li-on battery Protection cover

Type	Order number
Charger (40 min.)	31084-200E
Li-Ion battery 20V 2.0Ah	BB200E-320
Li-Ion battery 20V 4.0Ah	BB200E-340
Protection cover RRI-BI serie	3116-IWCP-01
Protection cover battery 2.0 Ah	33116-B180E-01
Protection cover battery 4.0 Ah	33116-B180E-02

RIVETERS

Main Features



RIVETERS

RRI Series



RRI-PR40740



RRI-PR40948



RRI-PR41764



RRI-4010



RRI-4011

CHARACTERISTICS

- Fast and powerful
- Low air consumption
- Ergonomic and lightweight
- Nose pieces for 4.0 and 4.8 mm
- With vacuum for vertical work
- Including keys, oiler, and rubber stand

Rivet Nut Setter



RRI-PRN41612M

CHARACTERISTICS

- fast and powerful
- low air consumption
- ergonomic and lightweight
- adapters for M4, M5, M6, M8, M10 and M12
- Including case, keys, oiler and rubber stand

Pneumatic
Riveters

RIVETERS

RRI Series

PNEUMATIC-HYDRAULIC RIVETERS WITH COLLECTOR

Type	Brand	Traction (kg)	Capacity rivets diameter	Air cons. l/stroke	Weight kg	Inlet- thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-PR40740	RRI	700	4,0	1,50	1,7	PT 1/4"	9,5	1,0	83
RRI-PR40948	RRI	920	4,8*	1,2	1,9	PT 1/4"	9,5	1,0	82
RRI-PR41764	RRI	1.700	6,4*	1,6	2,5	PT 1/4"	9,5	1,0	82
RRI-4010	RRI	900	until 4,8	1,15	1,5	PT 1/4"	6,5	1,5	76
RRI-4011	RRI	1.045	until 6,4	1,80	2	PT 1/4"	6,5	0,4	76

* all materials

PNEUMATIC-HYDRAULIC RIVET NUT SETTER

Type	Brand	Traction (kg)	Capacity rivets diameter	Air cons. l/stroke	Weight kg	Inlet- thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-PRN41612M	RRI	1.600	M4-M12 (M12 at 7 bar)	1,5	2,2	PT 1/4"	10	1,0	82

ACCESSORIES

RRI-PR40740

Accessory	Order number
Nose piece for:	
3/32 (2,4mm)	CP612703
3/16 (3,2mm)	CP612704
5/32 (4,0mm)	CP612705
Service kit	CP0715SK

RRI-PR41764

Accessory	Order number
Nose piece for:	
4,8 mm	CP612706 *
6,4 mm	CP612708 *
4,8 mm (Monobolt)	CP612746 *
6,4 mm (Monobolt)	CP612748 *
Backen	CP819303 *

RRI-4011

Accessory	Order number
Nose piece for:	14463 *
2,4 mm	14464 *
3,2 mm	14465 *
4,0 mm	14466 *
4,8 mm	14468 *
6,4 mm	612716 *
4,8 mm T-Rivet Female inlet body	922A18 *
Rivet deflector	14470 *
Multi-wrench A	612904 *
Set key B	918905 *

* Supplied as standard

RRI-PR40948

Accessory	Order number
Nose piece for:	
4,0 mm	CP612705 *
4,8 mm	CP612706 *
4,8 mm (Monobolt)	CP612746 *
Backen	CP12303 *

RRI-4010

Accessory	Order number
Nose piece for:	
- 3,2 mm	10416-1 *
- 4,0 mm	10416-2 *
- 4,8 mm	10416-3 *
Bottle for spent	
Rivets	10448 *
Wrench	10447 *

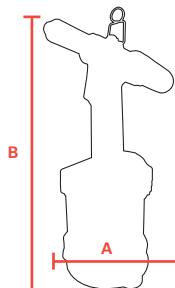
RRI-PRN41612M

Accessory	Order number
Bolt M4:	CP258A12 *
Bolt M5:	CP258A13 *
Bolt M6:	CP258A14 *
Bolt M8:	CP258A15 *
Bolt M10:	CP258A16 *
Bolt M12:	CP258A17 *

* Supplied as standard

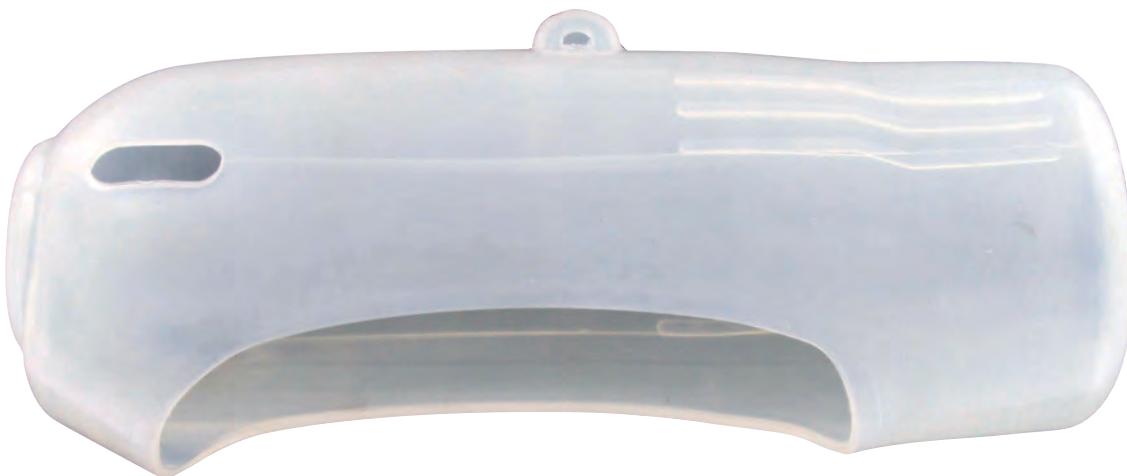
DIMENSIONS

Type	A mm	B mm
RRI-PR40740	301	274
RRI-PR40948	290	320
RRI-PR41764	329	350
RRI-PRN41612M	298	345
RRI-4010	159	299
RRI-4011	198	315



ACCESSORIES

Rubber protection covers & Service sets



RUBBER PROTECTION COVERS

Type	Order number				
RRI-30	RRI-30T	RRI-30A	RRI-30AT	I40-109-A05	
RRI-40	RRI-40T	RRI-40A	RRI-40AT		
RRI-50	RRI-50T	RRI-50A	RRI-50AT		
RRI-40X	RRI-40X	RRI-50X	RRI-50AX	I40X-109	
RRI-60X	RRI-60AX			I60X-109	
RRI-60	RRI-60T	RRI-60A	RRI-60AT	I60-109-A05	
RRI-70	RRI-70T			I70-109-A05	
RRI-80	RRI-80T			I80-109	
RRI-90	RRI-90T			I90-109-A05	
RRI-100	RRI-100T			I100-109-A05	
RRI-130	RRI-130T			I130-109-A05	
RRI-150	RRI-150T			I150-109-A05	
RRI-180	RRI-180T			I180-109-A05	
RRI-200	RRI-200T			I200-109	

SERVICE SETS

Type	Order number
RRI-30(X)	I30RK
RRI-40(X)	I40RK
RRI-50(X)	I50RK
RRI-60(X)	I60RK
RRI-70	I70RK
RRI-80	I80RK
RRI-90	I90RK
RRI-100	I100RK
RRI-130	I130RK
RRI-150	I150RK
RRI-180	I180RK
RRI-200	I200RK
RRI-30S	I30SRK
RRI-40S	I40SRK
RRI-50S	I50SRK
RRI-60S	I60SRK
RRI-70S	I70SRK

Type	Order number
RRI-30A(X)	I30RK
RRI-40A(X)	I40DRK
RRI-50A(X)	I50DRK
RRI-60A(X)	I60DRK
RRI-70A	I70DRK
RRI-30SA	I30SDRK
RRI-40SA	I40SDRK
RRI-50SA	I50SDRK
RRI-60SA	I60SDRK
RRI-70SA	I70SDRK
RRI-50R	I50RRK
RRI-60R	I60RRK
RRI-70R	I70RRK
RRI-70RG	I70RGRK
RRI-70RH	I70RHRK
RRI-80RH	I80RHRK
RRI-50RA	I50RDRK
RRI-60RA	I60RDRK
RRI-70RA	I70RDRK

Type	Order number
RRI-30T	IS30RK
RRI-40T	IS40RK
RRI-50T	IS50RK
RRI-60T	IS60RK
RRI-70T	IS70RK
RRI-80T	IS80RK
RRI-90T	IS90RK
RRI-100T	IS100RK
RRI-130T	IS130RK
RRI-150T	IS150RK
RRI-180T	IS180RK
RRI-200T	IS200RK
RRI-30ST	IS30SRK
RRI-40ST	IS40SRK
RRI-50ST	IS50SRK
RRI-60ST	IS60SRK
RRI-70ST	IS70SRK
RRI-80ST	IS80SRK

SERVICE SETS

You will need service sets with spare parts if you are going to change the oil. For quick service we advise you to use a vacuum pump (YEVP-1*) and oil tank (YEVP-1T*)

Always use oil with the right specifications when changing oil. Only then you will have a optimal tool power and a minimum oil consumption. We recommend RED ROOSTER oil for impulse wrenches: 01-0507 (p.130)

SERVICE SETS CONTAINING

O-rings, back up rings and springs for impulse mechanisms for oil change

ACCESSORIES

Tool Holder



Order number	Ø	For type
61022-TH001	42 mm	RRI-SP11602, RRI-SP10902, RRI-SP21704, RRI-SP21104, RRI-SP20705, RRI-SP31706, RRI-SP31108, RRI-SP30710, RRI-SP30511, Y41A(JQ), Y46A(E)(JQ), Y-56A(E)(JQ), Y-61A(E)
61022-TH002	47 mm	YS-E600, YS-E800, YS-E900, YS-E950, TKa60(A), TKa70(A), TKa80(A), YEX120(A), YEX150(A), RRI-30T(AT), RRI-40T(AT), RRI-50T(AT), RRI-60T(AT), RRI-30(A), RRI-40X(AX), RRI-50X(A), RRI-60(AX), YLTX50A, YLTX60A, YLTX50E, YLTX60E, YLT60AL(EL), YLT70A(E), YLT70AL(EL), YLa60A(JQ), YLa70A(JQ), YLa80A(JQ), YLa60E(JQ), YLa70E(JQ), YLa80E(JQ)
61022-TH003	58 mm	RRI-BS3, RRI-BS6, RRI-BS9, RRI-BI32T, RRI-BI55T, RRI-BI100T RRI-BI120T, TKa600(A), TKa700(A), TKa800, TKa900, Tka90, Tka110, Tka120, RRI-70T(AT), RRI-80T, RRI-90T, RRI-70(A)/80/90, YLTX80E, YLT80EL, YLT110E, YLT110EL, YLa90E, YLa110E, YLA120E, Y70E(JQ)
61022-TH004	73 mm	E-M500, E-M700, E-M900, E-M1100, Tka1110, Tka1200, Tka1400, Tka1500, TKa150, YEX-1400, RRI-100T, RRI-130T, RRI-150T, YLTX120E, YLT120EL, YLT140E, YLT140EL, YLa140E, Y-140(JQ)



Order number	For type
61022-TH005	RRI-BIM series
	RRI-BS series
	RRI-BI series
	RRI-BA series



ACCESSORIES

ACCESSORIES

For YZ-N and YZ-T series cordless tools



Li-Ion-battery
18 V/2.0 Ah



Charger
AC100~240 Volt ±10%
50/60Hz

Type	Order number
Li-Ion-Battery (0,41 kg) 18V 2 Ah	BPL-1820
Charger 18 Volt (40 Min.)	BC0075G

Programming accessories for YZ-T series cordless tools



Programming console



Cable

Type	Order number
Programming console	PC-1-YZ-T
Cable (2mtr)	CC-1

YOKOTA TORQUE MEASURING EQUIPMENT

YOKOTA torque measuring equipment (YET Series) is especially designed to check and test the functioning and performance of impulse wrenches. All specified torque figures in this brochure are measured on a YOKOTA torque tester (YET series), with 0,63 MPa air pressure (dynamic). This is a static torque tester. Torque values may differ with other measuring equipment and/or joints (hard/soft).

For type	Range
YET-501C	5-50 Nm
YET-2001C	20-200 Nm
YET-5001C	100-500 Nm



VALVES FOR SYSTEM WRENCHES

Description	Order number
3/8" NC	VP542-5Y01-03FA
3/8" NO	VP542-5Y01-03FB
1/2" NC	VP742-5Y01-04FA
1/2" NO	VP742-5Y01-04FA



2 STEP VALVE SET

Description	Order number
3/8" NC	YETC-2 SVD 3/8
1/2" NC	YETC-2SVD 1/2



ELECTRONIC VALVE FOR TWO STEP TIGHTENING

Description	Order number
1/2" NC	ITV3050-404BS3-CPL



TOOL CABLE FOR YOKOTA SYSTEM WRENCHES

Tool cable	Order number
7 meter, 2 connectors, female	7802-1581-00-06
10 meter, 2 connectors, female	7802-1581-00-08
12 meter, 2 connector, female	7802-1581-00-09
15 meter, 2 connector, female	7802-1581-00-10
10 meter extension cable (f/m)	7802-1580-00-09
Connection cable, 50 cm	7802-1579-00-01

SPECIAL JOINT FOR YTC-3 CONTROLLER

For type	Order number
Special joint for 3/8" tool	7671-0077-00-97
Special joint for 1/4" bigger size tool	7671-0077-00-98
Special joint for 1/4" smaller size tool	7671-0077-00-99



ACCESSORIES

Rubber Protection Cover for impulse- & system wrenches



For type	Order number	For type	Order number	For type	Order number
E-M500	0368-0029-00-01	YED-200	0409-0029-00-00	YZ-N600A	0454-0029-00-00
E-M700	0368-0029-00-01	YEX-120	0093-0029-00-00	YZ-N600E	0454-0029-00-00
E-M900	0368-0029-00-01	YEX-150	0093-0029-00-00	YZ-N800A	0455-0029-00-00
E-M1100	0378-0029-00-01	YEX-501	0260-0029-00-w00	YZ-N800E	0455-0029-00-00
TKa60	0186-0029-00-00	YEX-701	0143-0029-00-00	YZ-N900E	0456-0029-00-00
TKa70	0186-0029-00-00	YEX-901	0261-0029-00-00	YZ-N950E	0457-0029-00-00
TKa80	0193-0029-00-00	YEX-1400	0323-0029-00-00	YZ-T600A	0458-0029-00-00
TKa90	0181-0029-00-00	YEX-1900	0321-0029-00-00	YZ-T600E	0458-0029-00-00
TKa110	0187-0029-00-00	YEX-3000	0407-0029-00-00	YZ-T800A	0459-0029-00-00
TKa120	0342-0029-00-00	YLa60	0189-0029-00-00	YZ-T800E	0459-0029-00-00
TKa140	0341-0029-00-00	YLa70	0189-0029-00-00	YZ-T900E	0460-0029-00-00
TKa150	0343-0029-00-00	YLa80	0191-0029-00-00	YZ-T900E	0461-0029-00-00
TKa600	0358-0029-00-00	YLa90	0188-0029-00-00		
TKa700	0358-0029-00-00	YLa110	0190-0029-00-00		
TKa800	0360-0029-00-00	YLa120	0345-0029-00-00		
TKa900	0355-0029-00-00	YLa140	0346-0029-00-00		
TKa1110	0356-0029-00-00	YLT50	0371-0029-00-00		
TKa1200	0388-0029-00-00	YLT60	0371-0029-00-00		
TKa1400	0357-0029-00-00	YLT70	0372-0029-00-00		
TKa1500	0384-0029-00-00	YLT80	0373-0029-00-00		
Y41	0161-0029-00-00	YLT110	0379-0029-00-00		
Y46	0160-0029-00-00	YLT120	0380-0029-00-00		
Y56	0159-0029-00-00	YLT140	0381-0029-00-00		
Y61	0158-0029-00-00	YLT150	0382-0029-00-00		
Y70	0135-0029-00-00	YS-e600	0444-0029-00-00		
Y90	0141-0029-00-00	YS-e800	0445-0029-00-00		
Y100	0334-0029-00-00	YS-e900	0446-0029-00-00		
Y130	0335-0029-00-00	YS-e950	0447-0029-00-00		
Y140	0412-0029-00-00	YX-180	0089-0029-00-00		
Y-T40	0169-0029-00-00	YX-280	0081-0029-00-00		
Y-T45	0164-0029-00-00	YX-380	0086-0029-00-00		
Y-T55	0164-0029-00-00	YX-500	0077-0029-00-01		
Y-T70	0166-0029-00-00	YX-700	0129-0029-00-01		
Y-T90	0167-0029-00-00	YX-900	0237-0029-00-01		
YBX-50	0928-0029-00-00	YX-1100	0241-0029-00-00		
YBX-600T	0351-0029-00-00	YX-1400	0322-0029-00-00		
YBX-800T	0352-0029-00-00	YX-1900	0320-0029-00-01		
		YX-2400	0406-0029-00-01		
		YX-3000	0405-0029-00-00		

ACCESSORIES

Service Set

You will need these service sets with spare parts if you are going to change the oil. For quick service we advise you to use a vacuum pump (YEVP-1*) and oil tank (YEVP-1T*)

Service sets containing: O-rings, back up rings and springs for impulse mechanisms for oil change.

PLEASE NOTE!

Always use oil with the right specifications when changing oil. Only then you will have an optimal tool power and a minimum oil consumption. We recommend NOBP oil for the impulse unit.



For type	Order number
E-M500	0377-0991-00-99
E-M700	0377-0991-00-99
E-M900	0368-0991-00-99
E-M1100	0378-0991-00-99

TKa-60	0186-0991-00-99
TKa-600	0186-0991-00-99
TKa-70	0186-0991-00-99
TKa-700	0186-0991-00-99
TKa-80	0193-0991-00-99
TKa-800	0193-0991-00-99
TKa-90	0181-0991-00-99
TKa-900	0181-0991-00-99
TKa-110	0187-0991-00-99
TKa-1110	0187-0991-00-99
TKa-120	0342-0991-00-99
TKa-140	0341-0991-00-99
TKa-1400	0341-0991-00-99
TKa-150	0343-0991-00-99
TKa-1500	0343-0991-00-99

Y-41	0095-0991-00-99
Y-46	0273-0991-01-99
Y-56	0158-0991-01-99
Y-61	0158-0991-0c1-99
Y-70	0135-0991-03-99
Y-90	0141-0991-01-99
Y-100	0334-0991-01-99
Y-130	0335-0991-00-99
Y-140	0412-0991-02-09

YBX-1	0158-0991-01-99
YBX-50	0158-0991-01-99
YBX-600T	0189-0991-00-99
YBX-800T	0191-0991-00-99

YED-200	0409-0991-00-99
YED-240S	0411-0991-02-99

For type	Order number
YEX-120	0089-0991-01-99
YEX-150	0089-0991-01-99
YEX-300S	0086-0991-01-99
YEX-500S	0077-0991-02-99
YEX-701	0143-0991-00-99
YEX-901	0237-0991-01-99
YEX-1400	0323-0991-00-99
YEX-1900	0320-0991-00-99
YEX-3000	0405-0991-00-99

YLa60	0199-0991-01-99
YLa70	0189-0991-00-99
YLa80	0191-0991-00-99
YLa90	0188-0991-00-99
YLa110	0190-0991-00-99
YLa120	0345-0991-00-99
YLa140	0346-0991-00-99

YLT50	0383-0991-01-99
YLT60	0371-0991-01-99
YLT70	0372-0991-01-99
YLT80	0373-0991-01-99
YLT110	0379-0991-01-99
YLT120	0380-0991-01-99
YLT140	0381-0991-01-99
YLT150	0382-0991-01-99

YLTX50	0389-0991-00-99
YLTX60	0390-0991-00-99
YLTX70	0391-0991-00-99
YLTX80	0392-0991-00-99
YLTX110	0395-0991-00-99
YLTX120	0396-0991-00-99
YLTX140	0398-0991-00-99
YLTX150	0399-0991-00-99

YS-e600	0193-0991-00-99
YS-e800	0193-0991-00-99
YS-e900	0181-0991-00-99
YS-e950	0181-0991-00-99

INDUSTRIAL AIRTOOLS







TOKU

INDUSTRIAL AIR TOOLS

The Industrial air tool program we offer consists of three quality brands; Yokota, Toku and Red Rooster. Yokota and Toku are both Japanese brands of the highest, most durable quality. Red Rooster black is a high quality series that have optimal ergonomic characteristics and are suitable for highly intensive use, accompanied by a black Red Rooster logo. The Red series, recognizable by a red logo, are for general applications and situations where the intensity of work is lower yet quality is required. The combination of these three brands offer the user the security of finding the right tool for each application. With a sharp focus on ergonomics, productivity, sustainability and reliability of both your tools and processes.

The assortment of Industrial Air Tools varies from a large variety of impact wrenches to ratchet wrenches, drills, breaking hammers, long needle scalers to saws, grinders and sanders. Air tools are very sustainable due to their robustness, extremely long lifetime and easy maintenance.

In order to maintain the long lifetime of the tools and full operational capacity it is crucial to ensure clean and sufficient air. The right air quality determines the lifetime and stable performance of the tool. We advise SMC air treatment components. Please refer to pages 144-145 for the full range of SMC Air Treatment equipment.



INDUSTRIAL AIR TOOLS



IMPACT WRENCHES

An impact wrench is the most used and known compressed air tool. It is used almost everywhere there is a need to tighten and loosen bolts and nuts. In car and truck workshops, construction, shipyards, the petrochemical industry to name but a few. Our impact wrenches are available in a variety of shapes and sizes. Pistol, straight and angle, starting with a square drive of 3/8" up to 2 1/2". On the following pages more information can be found regarding the various operating mechanisms.

PAGE 72-78

RATCHET WRENCHES

Our Red Rooster and Toku ratchet wrenches are used for light workshop applications to assemble or disassemble bolts and nuts in limited spaces. The Yokota ratchet wrenches are used for industrial assembly, where accurate torque is required while accessibility is limited. By turning the wrench 180 degrees the joint can be loosened.

PAGE 79-80

SCREWDRIVERS

Our screwdrivers are available in 1-hammer, 2-hammer, direct drive and clutch mechanisms. The 1-hammer system makes 1 impact per rotation which causes a higher energy per blow. The 2-hammer system makes 2 impacts per rotation and has a higher frequency at less force per blow. The direct drive screwdrivers are suitable for self-tapping screws and wood screws. Screwdrivers with a clutch type mechanism, with adjustable torque, are used for general applications. When the torque is reached, the mechanism slips.

PAGE 81-82



AIR HAMMERS

Air hammers are extremely strong and compact tools. Due to the simple construction these lightweight tools offer power and high impact force. They can be used safely and continuously in places where electric hammers should not be used. Various possible applications: cleaning of welding seam, finishing of castings, removal of tiles or breaking of concrete.

PAGE 97-98

BREAKERS & ROCK DRILLS

Our breakers and rock drills have been developed for a wide range of heavy duty applications. Breaking or removing concrete, drilling in concrete or natural stone and opening up asphalted streets are some of the most common applications. The power and high impact force is unbeatable, and they are highly useful in areas where electric tools are unsafe or not strong enough.

PAGE 99-100

CHISELS AND DRILLS FOR HAMMERS

We offer a sizeable range of chisels and drills in numerous shank sizes and versions. We largely focus on our own range of pneumatic hammers but we also have a program of chisels and drills for (electric) hammers of other brands.

PAGE 101-107



POWER CUTTERS

Power cutters for round materials have simplified the process of cutting and pressing in mass production. Versatile applications of the power cutter by selecting suitable blades, make it possible to increase production. We offer a large variety of different types of blades. These power cutters operate at a pressure of 0,4-0,5 MPa.

TIP DRESSERS & HOG RINGERS

Yokota tip dressers are used for reshaping spot-welding electrodes. Blades for these tip dressers are separately available and can be custom made according to tip specifications. Yokota hog ringers are used to clamp upholstery on mesh with the help of C-shaped rings.

PAGE 114-115

PAGE 116

DOWELL PIN PULLERS

The Yokota dowel pin puller is used in matrix, casting and press-moulding industries, for setting and removing dowel pins in moulds or presses. The dowel pin puller is an easily operated air tool that simplifies the pulling or hammering operation of threaded dowel pins, saving time and improving work efficiency.

PAGE 117

INDUSTRIAL AIR TOOLS



DRILLS

Our drills are suitable for a large number of applications. Both for use in the industry, steel and aluminium processing, car/truck manufacturing, but also the general workshop-use is covered. Yokota drills are executed with a 2-step trigger. The first step is used for placing the drill correctly in the workpiece, the second step is used for drilling at high speed. The silencers can be turned 360 degrees. Please take care to choose the right capacity drill. Capacity and RPM of these tools are matched.

PAGE 83-84



TAPPING MACHINE

The Red Rooster universal tapping machine has been developed for thread tapping with a hand-held tool. The direction of rotation and speed are easily adjusted with the rocker switch. An ergonomically developed tool that fits well in the hand. Thanks to the quick-change holder, different sizes of tap holders can be changed quickly and easily.

PAGE 85



GRINDERS AND SANDERS

We offer a large variety of grinders in straight, angle and vertical versions. Our grinders are suitable for numerous grinding, fettling and finishing applications. Most are equipped with a safety handle, lever and silencer. Our Sanders are suitable for metal finishing and woodworking applications and also equipped with a silencer. All belt sanders are equipped with an adjustable silencer and safety lever. They are suitable for nearly all materials.

PAGE 86-95



NEEDLE AND LONG REACH SCALERS

Our program of needle scalers consists of straight and pistol versions. We also offer sets that include a chisel holder and anvil and a vibration-reduced model. The needle scalers can be used to remove rust, old paint-layers or concrete from horizontal and vertical surfaces or the removal of welding flux from a welding seam. We also have a range of long needle scalers that offer great ergonomics.

PAGE 108-110



SAWS

Our program contains three different types of saws. Our lightweight reciprocating saws are suitable for use in metal sheet work, but also for other materials like aluminium, plastics, wood and steel. Our pipe saw is ideal for heavy industrial use and for cutting pipes up to a diameter of 530mm. Our chain saw can be used to saw embankments and when electric or petrol engines are not suitable for the working environment.

PAGE 111-112



ENGRAVING PEN

The Red Rooster engraving pen enables you to write smoothly on various materials, such as steel, bronze, alloy and copper, through its high frequency. It can also be used on stainless steel, as the tip is tungsten carbide. Three sizes of tips are available with medium size delivered as standard. With the engraving pen you can mark your tools and produce nameplates.

PAGE 113



MULTICUTTER

Our Red Rooster multi cutter with sawblade is ideal for cutting steel plate. If needed, the cutting can be started in the middle of the plate. The multi cutter can also be used for the removal of urethane bonded windows and as a sander with a triangle sanding pad.

PAGE 118



BARREL AND SUMP PUMPS

The Yokota YP pumps are high quality sump pumps for use on board of ships. The pumps are made of bronze and especially suitable to use in acid environments. The Yokota barrel pump is developed to pump liquids from barrels such as fuel, oil, water or chemicals.

PAGE 119

IMPACT WRENCHES

THE RIGHT CHOICE!

Most makes of impact wrenches look very similar. Prices may however differ. This is mostly due to the quality of the impact mechanism. If the tool is only used sporadically, then it is advisable to buy a low cost model, if the tool is going to be used frequently then the industrial quality models become interesting. Manufactured with stronger materials and better quality impact mechanisms, they guarantee a longer, more durable and trouble free lifetime. Low cost tools are mostly executed with the single hammer impact mechanism. The industrial ones however, have a pin-clutch (Dynapact) or twin hammer system. Noise, vibration and weight also influence the price. An industrial wrench has a better silencer and less vibration. In tyre workshops where impact wrenches are used continuously, these are the most important factors. Nowadays modern impact wrenches are executed with a rear exhaust (outgoing airflow through the hand grip), while many of the conventional wrenches have an exhaust situated at the front of the tool. This can cause brake dust in the face of the operator during the process of untightening wheel nuts. Highly uncomfortable!

TORQUE

Often people think that the specified torque level of an impact wrench equals the performance of the tool, this is not correct. Impact wrenches can not be compared on the specified torque only, as there is no standard for measuring the torque. The specified torque depends on various influences: the impact mechanism, weight, air consumption and quality.

CAUTION WHEN TIGHTENING!

Impact wrenches are designed to disassemble bolts and nuts. In practice they are also used for tightening nuts and bolts. But be aware that bolts and nuts can easily be damaged by the high power of an impact wrench. This could have serious consequences when it comes to the legal product responsibility regulations and the ISO certification. The tightening of nuts and bolts should be done by torque adjustable tools (see chapter one: assembly tools).

AIR CONSUMPTION

To choose the right compressor one needs to know how much air l/min a tool uses and how the tool will be used, continuously or intermittently. There are 2 ways to estimate the air consumption of air tools:

Method 1

Measure air consumption with continuous operation

Method 2

Measure with intermittent operation

CONTINUOUS OPERATION

The total consumption when the trigger is pulled for a period of one minute (this is what you will find in this catalogue). If you use our tool like this you need a compressor with the capacity stated.

INTERMITTENT OPERATION

The air consumption is measured when the trigger is pulsed intermittently for say 25% of a minute, which gives 25% intermittence. If you use your tool like this you need a compressor with 25% of the capacity stated.

INTERMITTENCE

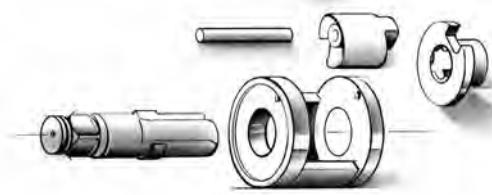
The average time that a tool is calculated to be used during a normal working cycle (1 min.). Intermittence varies between different types of tools, for example a grinding tool is normally in use for a long period and therefore has a high intermittence. An impact wrench is normally used in short bursts and therefore has a lower intermittence.

EXAMPLE

If at 100% intermittence, the air consumption is 800 l/min then at 25% intermittence the air consumption would be 200 l/min i.e. 25% of 800 l/min.

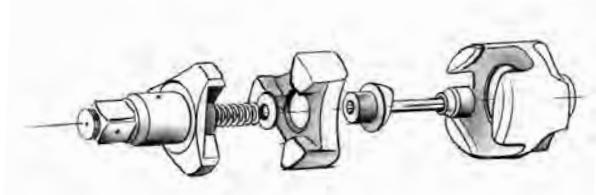
IMPACT WRENCHES

Mechanisms



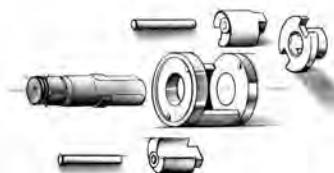
1-HAMMER SYSTEM

The 1-hammer system makes 1 impact per rotation at 1 side of the anvil. This causes a higher energy per blow. Impact wrenches with the 1-hammer system are especially suitable for disassembly jobs.



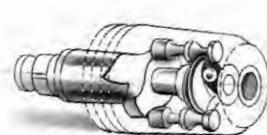
3-JAW SYSTEM

The 3-jaw system gives, per rotation, one impact on all 3 jaws of the anvil. This gives a high torque output. Impact wrenches with the 3-jaw system are only suitable for hard joints.



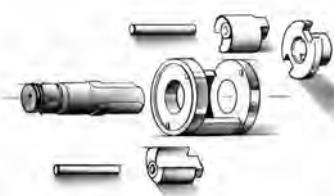
2-HAMMER SYSTEM

The 2-hammer system makes 2 impacts per rotation at both sides of the anvil.



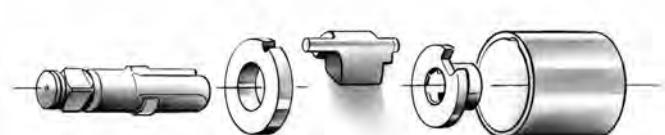
DYNAPACT IMPACT SYSTEM

The Dynapact impact system has two pins hammering on the anvil, making 1 impact per rotation at both sides of the anvil at the same time. This system give high torque output and is well balanced.



2-HAMMER SYSTEM

The twin-hammer system makes 2 impacts per rotation at both sides of the anvil. Same principal as the 2-hammer system, manufactured differently.



CLOSED HAMMER SYSTEM

The closed hammer system. This construction, without loose hammerpin, will prevent breakage. The working principle is based on the 1-hammer system.

IMPACT WRENCHES

Angle and pistol models

Red Rooster

MAX. 610 Nm



RRI-14

MAX. 610 Nm



RRI-17

MAX. 1.750 Nm



RRI-21

MAX. 2.550 Nm



RRI-25S



RRI-25



RR-16N



RR-18N



RR-18NT



RR-24N



RR-160H



RR-15A



RR-20PN



RR-15P

Toku

MAX. 1.900 Nm



MI-12



MI-14S 1/2



MI-16M



MI-17C



MI-17MG



MI-20S



MI-20PG



MI-3800PR



MI-3800PR

Yokota



YD-670E-RF



V-160



YW-6CL

IMPACT WRENCHES

Angle and pistol models

PISTOL MODEL

Type	Brand	Square drive	Type ⁴⁾	Bolt capacity mm	Impact-mechanism	RPM	Torque Nm	Power adjustment ⁵⁾	Air cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
YD-670E-RF	YOKOTA	3/8"	E	6	Twin-hammer	7.500	90	R/L 4 levels	6,1	0,98	PT 1/4"	6,5	1,5	75
MI-12	TOKU	3/8"	R	12	Twin-hammer	9.500	160	R/L 4 levels	5,3	1,2	PT 1/4"	6,5	9,9	82
MI-16M3/8	TOKU	3/8"	R	12	Twin-hammer	6.200	270	R/L 4 levels	9,3	1,5	PT 1/4"	6,5	4,6	87
RR-16N 3/8	RR	3/8"	R	12	Twin-hammer	11.000	340	R/L 3 levels	8,7	1,3	PT 1/4"	6,5	4,6	83
MI-16M1/2	TOKU	1/2"	R	12	Twin-hammer	6.200	310	R/L 4 levels	9,3	1,5	PT 1/4"	6,5	4,6	87
RR-16N 1/2	RR	1/2"	R	14	Twin-hammer	11.000	405	R/L 3 levels	8,7	1,2	PT 1/4"	6,5	4,6	83
RR-15P	RR	1/2"	R	14	1-Hammer	6.900	430	R/L 4 levels	8	2,4	PT 1/4"	10	11	82
RRI-14 ^{2a)}	RRI	1/2"	R	14	Twin-hammer	9.000	440	R 2 levels	8,5	1,1	PT 1/4"	6,5	5,8	89
MI-14S 1/2	TOKU	1/2"	R+H	16	Twin-hammer	11.700	390	R/L 4 pos	6	1,15	PT 1/4"	10	8	88
RRI-17 1/2 ^{2b)}	RRI	1/2"	R	16	Twin-hammer	10.000	450	R 3 levels ⁶⁾	10,8	1,3	PT 1/4"	10	6,8	89
RRI-17 3/8 ^{2b)}	RRI	3/8"	R	16	Twin-hammer	10.000	390	R 3 levels ⁶⁾	10,8	1,3	PT 1/4"	10	6,8	89
RR-18N	RR	1/2"	R	16	Twin-hammer	7.000	815	R/L 3 levels	12,1	2	PT 1/4"	10	4,8	83
RR-18NT	RR	1/2"	R	16	Twin-hammer	7.000	815	90 Nm ¹⁾	12,1	2	PT 1/4"	10	3,1	83
RR-160H	RR	1/2"	R	16	Dynapact	8.000	580	R/L 4 levels	7	2,3	PT 1/4"	10	11	82
V-160P	YOKOTA	1/2"	R	16	1-Hammer	6.500	580	R/L 4 levels	12,6	2,8	PT 1/4"	10	13	84
MI-17MG	TOKU	1/2"	R	16	Twin-hammer	5.500	650	R/L 4 levels	8,8	2,4	PT 1/4"	10	7,4	88
MI-17C ^{2c)}	TOKU	1/2"	R	16	Twin-hammer	8.800	650	R3/L2 levels	13,3	1,84	PT 1/4"	10	5,7	85
RRI-21 ^{2d)}	RRI	1/2"	R	20	Twin-hammer	7.500	900	R 3 levels ⁶⁾	12,6	2	PT 1/4"	10	3,4	86
MI-20S	TOKU	3/4"	R+H	20	Twin-hammer	4.500	900	R/L 4 pos	15	3,25	PT 3/8"	10	8,3	90
RR-20PN	RR	3/4"	R+H	20	1-Hammer	4.800	720	R/L levels	10,5	4,6	PT 1/4"	10	4	87
RRI-25S	RRI	3/4"	R+H	24	Twin-hammer	5.500	1.300	R 2 pos	9	2,85	PT 3/8"	10	10,8	95
MI-20PG	TOKU	3/4"	R+H	24	Twin-hammer	5.000	1.000	R/L 4 levels	15	3,9	PT 3/8"	10	4,6	92
MI-20PL	TOKU	3/4"	R+H	24	Twin-hammer	5.000	1.000	R/L 4 levels	15	4	PT 3/8"	10	4,6	92
RR-24N	RR	3/4"	R+H	24	Twin-hammer	5.500	1.625	R 3 levels ⁶⁾	16	3,4	PT 3/8"	10	4,8	90
RRI-25 ^{2e)}	RRI	3/4"	R+H	24	Twin-hammer	5.000	1.800	R 3 levels ⁶⁾	17	3,7	PT 3/8"	10	7,6	87
RR-24N 1	RR	1"	R+H	24	Twin-hammer	5.500	1.900	R 3 levels ⁶⁾	16	3,7	PT 3/8"	10	4,8	90
MI-3800PR	TOKU	1"	R+H	36	Closed hammer	4.500	2.100	R/L 4 levels	15	9,3	PT 1/2"	13	8	84
MI-3800PLR ³⁾	TOKU	1"	R+H	36	Closed hammer	4.500	2.000	R/L 4 levels	15	9,9	PT 1/2"	13	8	84

ANGLE MODEL

Type	Brand	Square drive	Type ⁴⁾	Bolt capacity mm	Impact-mechanism	RPM	Torque Nm	Power adjustment ⁵⁾	Air cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
YW-6CL	YOKOTA	3/8"	H	6	1-Hamer	6.500	145	-	4,2	1,6	PT 1/4"	6,5	18	81
RR-15A	RR	1/2"	R	14	Jumbo-Hammer	7.000	310	R 2 levels	5,3	1,8	PT 1/4"	9,5	5,8	89

1) RR-18NT: maximum tightening torque 90NM, full power in untightening
 2a) Max. break loose torque RRI-14: 610Nm
 2b) Max. break loose torque RRI-17: 610Nm

2c) Max. break loose torque MI-17C: 1.900Nm

2d) Max. break loose torque RRI-21: 1.750Nm

2e) Max. break loose torque RRI-25: 2.550Nm

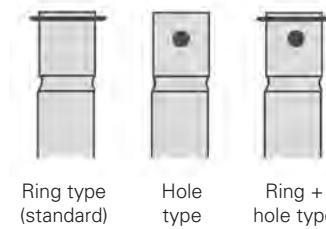
3) L = long anvil

4) Versions: R = ring type / H = hole type / R + H = ring + hole type

5) R3 levels means: 3 positions clockwise and counterclockwise full power

6) The air consumption of the impact wrenches is measured under load

TYPE



IMPACT WRENCHES

Heavy duty models



YW-50C

YW-65C



YW-90C



YW-120C

Type	Brand	Square drive	Type ¹⁾	Bolt capacity mm	Impact-mechanism	RPM	Torque Nm	Air cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
YW-50C	YOKOTA	1½"	H	52	2-Hammer	3.000	4.500	30	27	PT 1"	19	2,3	90
YW-65C	YOKOTA	1½"	H	64	2-Hammer	2.100	6.600	30	45	PT 1"	19	2,3	92
YW-90C ³⁾	YOKOTA	1¾"	H	90	2-Hammer	1.700	16.500	41	62	PT 1"	19	2,3	94
YW-120C	YOKOTA	2½"	H	130	2-Hammer	1.800	33.000	68	115	PT 1"	25	5	93

¹⁾ Type: H = Hole type / ²⁾ The air consumption of the impact wrenches has been measured under working conditions / ³⁾ 1½" square drive on request

IMPACT WRENCH SETS



RR-18N/SETSTD

- Impact wrench RR-18N
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24)
- Extension bar 100 mm



RR-18N/SETLNG

- Impact wrench RR-18N
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24 deep)
- Extension bar 100 mm



RRI-21/SETSTD

- Impact wrench RRI-21
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24)
- Extension bar 100 mm



RRI-21/SETLNG

- Impact wrench RRI-21
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24 deep)
- Extension bar 100 mm



MI-17MG-SK

- Impact wrench MI-17MG
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24)
- Extension bar 100 mm



MI-17MG-SL

- Impact wrench MI-17MG
- 5 x 1/2" Impact sockets (A/F 17-19-21-22-24 deep)
- Extension bar 100 mm

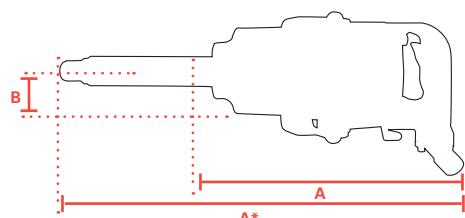
IMPACT WRENCHES

Dimensions, parts, accessories

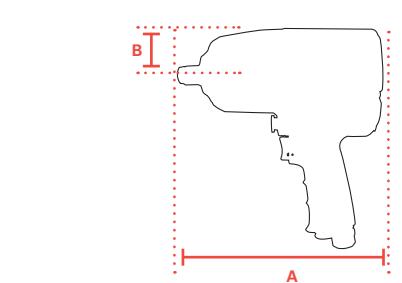
DIMENSIONS

Type	A mm	A* mm	B mm	C mm	D mm	Drawing
MI-12	150	-	24	-	-	3
MI-14S	100	-	30	-	-	3
MI-16	170	-	27	-	-	3
MI-17C	181	-	31	-	-	3
MI-17MG	178	-	31	-	-	3
MI-20P	215	-	38	-	-	3
MI-20PL	335	-	38	-	-	3
MI-38ESR	337	-	50	-	-	2
MI-38ELR	-	515	50	-	-	2
MI-42ESR	370	-	60	-	-	2
MI-42ELR	-	517	60	-	-	2
MI-590TR	570	-	50	-	-	2
MI-3800PR	281	-	55	-	-	3
MI-3800PLR	-	430	55	-	-	3
MI-3800ESR	355	-	55	-	-	2
MI-3800ELR	-	504	55	-	-	2
MI-4500ESR	460	-	60	-	-	2
MI-4500ELR	-	584	60	-	-	2
MI-5500ES	553	-	63	-	-	2
RR-15A	340	-	32	67	-	1
RR-15P	180	-	30	-	-	3
RR-20PN	239	-	38	-	-	3
RR-160H	185	-	30	-	-	3
RR-16N	150	-	30	-	-	3
RR-18N	185	-	30	-	-	3
RR-18NT	185	-	30	-	-	3
RR-24N	210	-	50	-	-	3
RRI-14	120	-	32	-	-	3
RRI-17	172	-	29	-	-	3
RRI-21	190	-	35	-	-	3
RRI-25	234	-	43	-	-	3
RRI-37E	-	515	52	-	-	2
RRI-1061	400	-	78	-	-	2
V-160P	182	-	34	-	-	3
YW-6CL	215	-	14	50	63	1
YW-50C	535	-	355	448	160	4
YW-65C	606	-	344	434	162	4
YW-90C	674	-	358	448	186	4
YW-120C	827	-	527	461	226	4

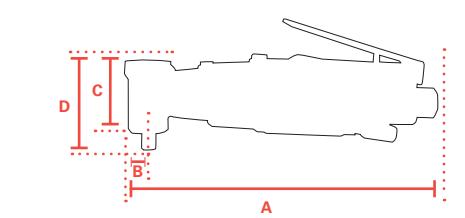
Drawing 1



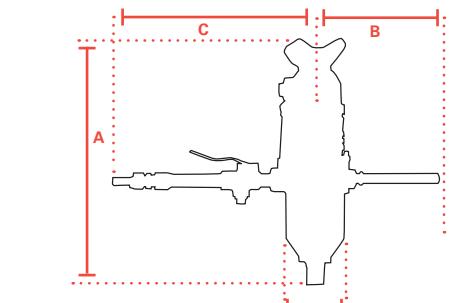
Drawing 2



Drawing 3



Drawing 4



SPARE PARTS – SPRING RING FOR IMPACT SOCKETS

Type	Part number Spring Ring	Part number O-Ring
TOKU 3/8"	13-08-05-092	9010-1004-00-00
TOKU 1/2"	13-08-05-006	13-11-17-108
TOKU 3/4"	13-08-03-113	9010-1012-00-00
TOKU 1"	13-08-03-144	13-11-05-013
V-160P	0208-0416-00-00	13-11-05-006
RR-15P	40303	13-11-05-006
RR-20PN	280-016	9010-1012-00-00
RR-16N/18N(T)	40303	13-11-05-006
RRI-21	250-033	00-4103
RR-24N	45-405112	OR01000305
RR-160H	250-033	00-4103
RRI-17 3/8"	242-026	00-4144
RRI-17 1/2"	250-033	00-4103
RRI-25	280-028	00-4175

ACCESSORIES



RUBBER PROTECTION COVER

Part number	For type
AH0001020	MI-17MG / MI-17HEG
AH0001030	MI-20P



HOSE SET SILENCER

Part number	For type
EH-43-4033SUB	RR-16N/18N/18NT RRI-17/21
EH-454051P	RR-24N

RATCHET WRENCHES



RATCHET WRENCHES 1/4" + 3/8" + 1/2"

Type	Brand	Square-drive	Bolt capacity mm	RPM	Torque Nm	Air cons. l/sec	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
RRW-2202	RR	1/4"	8	200	32	5,0	0,5	PT 1/4"	6,5	4,3	85
MR-2207C	TOKU	1/4"	8	250	28	5,0	0,5	PT 1/4"	6,5	2,7	81
RRW-2203	RR	3/8"	10	200	32	5,0	0,5	PT 1/4"	6,5	4,3	85
MR-2209C	TOKU	3/8"	10	250	28	5,0	0,5	PT 1/4"	6,5	2,7	81
RRW-2403	RR	3/8"	12	150	68	6,0	1,2	PT 1/4"	6,5	5,8	85
MR-2310B	TOKU	3/8"	12	175	78	6,0	1,2	PT 1/4"	6,5	3	85
RRW-2404	RR	1/2"	12	150	68	6,0	1,2	PT 1/4"	6,5	5,8	85
MR-2410B	TOKU	1/2"	12	175	78	6,0	1,2	PT 1/4"	6,5	1,3	81
RRW-121	RR	1/2"	12	150	120	8,0	1,9	PT 1/4"	10	2,3	88

REACTIONLESS RATCHET WRENCHES

Type	Brand	Square-drive	Bolt capacity mm	RPM	Torque Nm	Air cons. l/sec	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
RRW-3403	RR	3/8"	12	500	95	6,0	1,28	PT 1/4"	6,5	4,5	91
RRW-3404	RR	1/2"	12	500	95	6,0	1,28	PT 1/4"	6,5	4,5	91

RATCHET WRENCHES FOR THE ASSEMBLY INDUSTRY

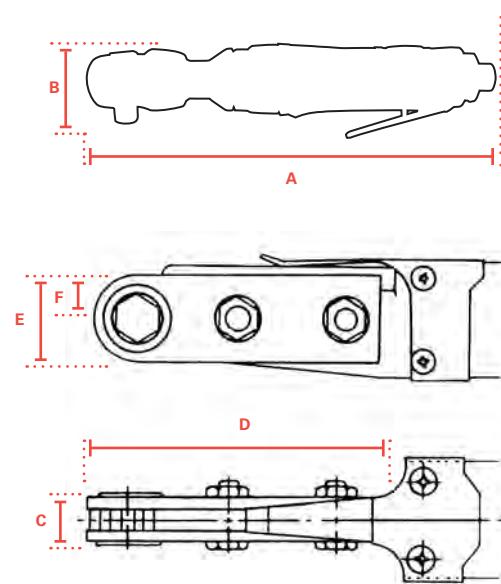
Type	Brand	Square-drive	Bolt capacity mm	RPM	Torque Nm	Air cons. l/sec	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
YRW-6	YOKOTA	8, 9, 10 *	6	200	13	4,6	1,15	PT 1/4"	6,5	2,5	81
YRW-8NS	YOKOTA	10, 12, 13, 14 *	8	250	30	8,3	2,00	PT 1/4"	10	2,5	82
YRW-10N	YOKOTA	14, 17 *	10	140	45	11,6	2,65	PT 1/4"	10	2,5	84

* Socket size in mm (Please state socket size in your order).

RATCHET WRENCHES

Dimensions

Type	A mm	B mm	C mm	D mm	E mm	F mm
MR-2207C	165	33	-	-	-	-
MR-2209C	165	33	-	-	-	-
MR-2310B	255	44	-	-	-	-
MR-2410B	255	50	-	-	-	-
RRW-121	357	57	-	-	-	-
RRW-2202	180	32	-	-	-	-
RRW-2203	180	32	-	-	-	-
RRW-2403	250	40	-	-	-	-
RRW-2404	250	45	-	-	-	-
RRW-3403	280	40	-	-	-	-
RRW-3404	280	45	-	-	-	-
YRW-6	320	13	13	88	20	10
YRW-8NS	350	18	13	105	25	12,5
YRW-10N	388	18	18	108	33	16,5



SCREWDRIVERS

Hammermechanism & Direct drive



YD-600SZ



YD-3A YD-4A YD-5A



MID-600



YD-40PZ



YD-670A-RF



RR-0800DD



RR-1800DD

1-HAMMER

Type	Brand	Square hex drive	Bolt capacity mm	Model	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
YD-3A ¹⁾	YOKOTA	1/4" Hex	4	Recht	12.000	7,5	1,6	0,50	PT 1/8"	6,5	2,3	82
YD-4A ¹⁾	YOKOTA	1/4" Hex	5	Recht	11.000	12	2,3	0,60	PT 1/8"	6,5	2	90
YD-5A ¹⁾	YOKOTA	1/4" Hex	6	Recht	10.000	15,5	3,2	0,85	PT 1/8"	6,5	2,5	90

2-HAMMER

Type	Brand	Square hex drive	Bolt capacity mm	Model	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
MID-600 ²⁾	TOKU	1/4" Hex	3-5	Pistol	9.500	90	5,0	0,9	PT 1/4"	6,5	3,6	82
YD-40PZ	YOKOTA	1/4" Hex	4	Pistol	14.000	15	1,6	0,52	PT 1/4"	6,5	4	80
YD-600SZ ²⁾	YOKOTA	1/4" Hex	6	Recht	7.500	37	5,0	0,95	PT 1/4"	6,5	1,6	77
YD-670A-RF ³⁾	YOKOTA	1/4" Hex	6	Pistol	7.500	90	6,1	0,98	PT 1/4"	6,5	1,5	75

DIRECT DRIVE

Type	Brand	Square hex drive	Bolt capacity mm	Model	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
RR-0800DD	RR	1/4" Hex	6	Pistol	800	10,5	9,8	1,0	PT 1/4"	10	3,5	83
RR-1800DD	RR	1/4" Hex	6	Pistol	1.800	7,5	9,8	1,0	PT 1/4"	10	3,5	83

1) Delivered with regulator / 2) 4 settings power adjustment / 3) Delivered with rubber protection cover

SELECTION GUIDE: TYPE OF SCREWDRIVER PER APPLICATION

Type	Machine screw 4.8	Machine screw 8.8	Self tapping screw-M	Self tapping screw-ST	Self tapping screw-ST, for plastic	Self-drilling/ Self-tapping Srew-S	Wood screw
Impact							
Direct drive							
Clutchtype mechanism							
Shut-off mechanism							

■ Recommended ■ OK ■ not OK

For suitable impact sockets please refer to chapter on impact sockets.

SCREWDRIVERS

Clutch type mechanism (adjustable)



YD-400SCA



YD-5PHCA



RR-02SP



RR-02SC

RR-06SC

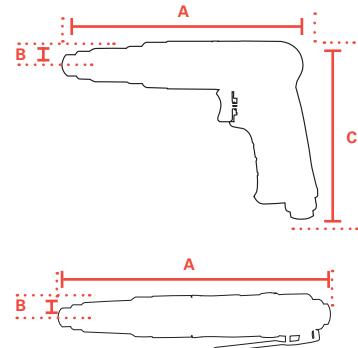
Type	Brand	Square hex drive	Bolt capacity mm	Model	RPM	Torque Nm	Air-cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise-level dB(A)
YD-400SCA	YOKOTA	1/4" Hex	4	Recht	1.700	1	-	3,2	2,5	0,56	PT 1/8"	6,5
RR-02SC	RR	1/4" Hex	5	Recht	1.800	1	-	6	10,0	1,2	PT 1/4"	10
RR-06SC	RR	1/4" Hex	6	Recht	800	5	-	16	10,0	1,4	PT 1/4"	10
YD-5PHCA	YOKOTA	1/4" Hex	5	Pistol	1.650	1	-	6,6	5,8	1,2	PT 1/4"	6,5
RR-02SP	RR	1/4" Hex	5	Pistol	1.800	1	-	6	10,0	1,3	PT 1/4"	10
RR-06SP	RR	1/4" Hex	6	Pistol	800	5	-	16	10,0	1,4	PT 1/4"	10

DIMENSIONS

Type	A mm	B mm	C mm
YD-3A	168	13,5	-
YD-4A	180	16	-
YD-5A	200	19	-
YD-5PHCA	217	20	154
YD-40PZ	107	18	125
YD-400SCA	209	16,5	-
YD-600SZ	206	23	-
YD-670A-RF (3/8)	149	22	167

Type	A mm	B mm	C mm
MID-600	149	22	161
RR-02SP / RR-06SP	214	21	155
RR-06SC	227	21	-
RR-02SC	260	21	-
RR-0800DD	190	21	165
RR-1800DD	175	21	165

All screwdrivers adapt 1/4" standard type hexagon \ insert bits and are reversible.



CONTROL

1-Hammer	
YD-3A	Push start
YD-4A	Push start
YD-5A	Push start

Slipping clutch (adjustable)	
YD-400SCA	Trigger start
YD-5PHCA	2-step trigger
RR-02SP/RR-06SP	Lever start
RR-02SC/RR-06SC	2-step trigger

2-Hammer	
MID-600	Trigger start
YD-40PZ	2-step trigger
YD-600SZ	Lever start
YD-670A-RF (3/8)	2-step trigger

SIDE HANDLES

Type	Order Number
RR-06SP	75-725139-0001S +822340

* Supplied as standard

Direct drive	
RR-0800DD	Trigger start
RR-1800DD	Trigger start

SILENCER HOSE SET

Type	Order Number
RR-0800DD	EH-701SUB
RR-1800DD	
RR-02SP	
RR-06SP	



TORQUE SPRINGS

Automotive models RR-02SP/SC and RR-06SP/SC are supplied with 2 torque springs.

SCREW SPANNER

The YD-400SCA and YD-5PHCA are supplied with screw spanner 2201-0243-00-00.

SPRING BALANCERS

Use a spring balancer for the tools to become "weightless" thus greatly reducing operator fatigue.

DRILLS



PISTOL MODELS

Type	Brand	Capacity steel mm	Spindle size	Rotation direction	RPM	Power kW	Air cons. l/s	Weight kg	Inlet- thread	Hose- diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-2006	RRI	6,5	3/8" x 24 UNF	R	5.000	0,21	10,8	0,65	PT 1/4"	10	3	79
RRI-2206/28	RRI	6,5	3/8" x 24 UNF	R	2.800	0,26	7,6	0,60	PT 1/4"	10	0,4	84
RRI-2206/40	RRI	6,5	3/8" x 24 UNF	R	4.000	0,26	7,6	0,60	PT 1/4"	10	0,6	86
YRD-6NBK	YOKOTA	6-8	3/8" x 24 UNF	R	2.800	0,33	8,3	0,90	PT 1/4"	10	3	76
YRD-8NBK	YOKOTA	8-10	3/8" x 24 UNF	R	1.900	0,38	10	1,30	PT 1/4"	10	3	75
RR-10DP	RR	10	3/8" x 24 UNF	L/R	1.800	0,35	8	1,1	PT 1/4"	10	4	83
YRD-10NBK	YOKOTA	10-13	1/2" x 20 UNF	R	1.000	0,44	10	1,50	PT 1/4"	10	1,3	80
YRD-13NBK	YOKOTA	13	1/2" x 20 UNF	R	700	0,50	13,3	1,6	PT 1/4"	10	0,8	79
RR-13DP	RR	13	3/8" x 24 UNF	L/R	800	0,35	8	1,3	PT 1/4"	10	4	83
RRI-2116P ¹⁾	RRI	16	1/2" x 20 UNF	R	950 ²⁾	0,50	11	2,4	PT 1/4"	10	1,8	82

¹⁾ Supplied with hose set silencer / ²⁾ Remove gears with needle bearings

ANGLE MODEL

Type	Brand	Capacity steel mm	Spindle size	Rotation direction	RPM	Power kW	Air cons. l/s	Weight kg	Inlet- thread	Hose- diameter mm	Vibration m/s ²	Noise level dB(A)
MD-3312B	TOKU	10	3/8" x 24 UNF	L/R	1.900	0,38	6	0,91	PT 1/4"	6,5	2,3	77

STRAIGHT MODEL

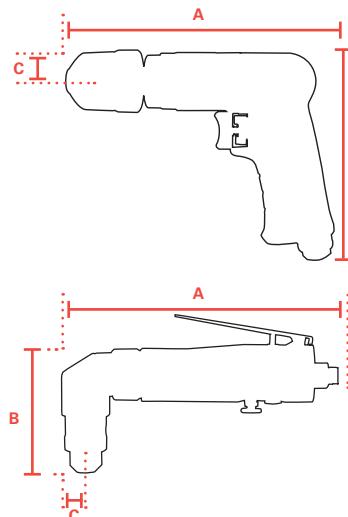
Type	Brand	Capacity steel mm	Spindle size	Rotation direction	RPM	Power kW	Air cons. l/s	Weight kg	Inlet- thread	Hose- diameter mm	Vibration m/s ²	Noise level dB(A)
10RDS-2500	RR	10	3/8" x 24 UNF	R	2.500	0,37	3,5	1,1	PT 1/4"	6,5	0,4	79
10RDS-4000	RR	10	3/8" x 24 UNF	R	4.000	0,37	3,5	1,1	PT 1/4"	6,5	0,4	79

DRILLS

Dimensions & accessories

DIMENSIONS

Type	A mm	B mm	C mm
RR-10DP	185	165	-
RR-13DP	218	165	-
10RDS-2500	250	-	22
10RDS-4000	250	-	25
MD-3312B	205	93	20
RRI-2006	192	138	14
RRI-2206/28	128	116	14
RRI-2206/40	128	116	14
RRI-2116P	270	168	28
YRD-6NBK	151	140	21
YRD-8NBK	176	150	25
YRD-10NBK	209	150	25
YRD-13NBK	218	145	25



ACCESSORIES

DRILL CHUCKS

Type	Order Number
MD-3312B *	10MM-3/8 x 24NF
RRI-2206/28 *	6MM-3/8 x 24NF
RRI-2206/40 *	6MM-3/8 x 24NF
RRI-2006 *	6MM-3/8 x 24NF
RRI-2116P *	BHP-16 1/2 x 20NF
10RDS-4000 *	10MM-3/8 x 24NF

* Supplied as standard

QUICKCHANGE DRILL CHUCKS

Type	Order Number
RR-10DP *	10035-14
10RDS-2500 *	10035-14
YRD-6NBK *	BHS-10MM
YRD-8NBK *	BHS-10MM
YRD-10NBK *	BHS-13MM
YRD-13NBK *	BHS-13MM
RR-13DP *	10033-14

* Supplied as standard

DRILL CHUCKS

Type	Order Number
RR-13DP *	822340 + 75-725139-0001S
RRI-2116P *	2116-061-99
YRD-13NBK	SM-71239 & SM-71240

* Supplied as standard

KEYS FOR DRILL CHUCKS

Type	Order Number
MD-3312B *	90180
RRI-2116P *	90200
RRI-2206/28 *	90160
RRI-2206/40 *	90160

* Supplied as standard



SILENCER HOSE SET

Type	Order Number
RR-10DP	EH-701SUB
RR-13DP	

TAPPING MACHINE



RRI-T330M12

The RED ROOSTER universal tapping machine RRI-T330M12 has been developed for manual thread tapping. The direction of rotation and speed are easily adjusted with the rocker switch. It is an ergonomically developed tool that fits well in the hand. Exhaust through grip, sound muffled. Thanks to the quick-change holder, different sizes of tap holders can be changed quickly and easily.



CHARACTERISTICS

- Can be used both left and right handed
- Side handle included for extra stability
- Low air consumption
- Low in vibrations
- Can be used for M6 to M12 taps
- With quick-change holder for quick switch of tap holders
- Exhaust through grip, sound muffled

Tap holders RRI-T330M12 (order separately)

M6



M8



M10



M12



775-0309

775-03010

775-0312

775-0311

Type	Brand	Capacity steel	Spindle size	Rotation direction	RPM	Power kW	Air cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-T330M12	RRI	M6-M12	B12	L - R	330	0,39	15	1,63	PT 1/4"	10	4	82

GRINDERS

Die grinders



Type	Brand	Wheel size mm	RPM	Power kW	Collet chuck mm	Air-cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-34100	RRI	6	100.000	0,09	3	3,3	0,20	PT 1/4"	6,5	<2,5	73
RRI-3445	RRI	20	45.000	0,30	3 / 6	7,5	0,40	PT 1/4"	10	2,4	79
MG-OA	YOKOTA	20	25.000	0,30	6	6,2	0,45	PT 1/4"	6,5	5	78
RRI-3430	RRI	20	30.000	0,23	3 / 6	7,5	0,40	PT 1/4"	10	2,2	81
MG-7206B*	TOKU	25	23.000	0,38	6	5	0,56	PT 1/4"	6,5	2,3	81
MG-OC	YOKOTA	25	33.000	0,13	6	3	0,39	PT 1/4"	6,5	3	78
RRG-200RE*	RR	35	25.000	0,25	6	4	0,56	PT 1/4"	6,5	2,5	83
RRG-200REL	RR	35	25.000	0,25	6	4	0,86	PT 1/4"	6,5	1,5	83
RRG-500RE	RR	35	20.000	0,37	6	4,6	0,7	PT 1/4"	6,5	1,68	79
RRG-500REL	RR	35	20.000	0,37	6	4,6	1,4	PT 1/4"	6,5	1,68	79
RRG-1000RE	RR	35	22.000	0,74	6 (8) ²⁾	11	0,8	PT 1/4"	10	2,9	89
RRG-1000REL	RR	35	22.000	0,74	6 (8) ²⁾	11	1,2	PT 1/4"	10	2,9	89
RRI-3425	RRI	35	25.000	0,50	3 / 6	12,3	0,8	PT 1/4"	10	2	80,2
RRI-3425L	RRI	35	20.000	0,50	3 / 6	12,3	0,8	PT 1/4"	10	2,5	80,2
RRI-3425EL	RRI	35	20.000	0,50	3 / 6	12,3	0,95	PT 1/4"	10	2,5	80,6
MG-1B	TOKU	45	18.000	0,28	6	8	0,55	PT 1/4"	10	1,3	77
RRI-3407	RRI	35	7.000	0,70	6 (8) ³⁾	4	1,15	PT 1/4"	6,5	<2,5	84
RRG-60160	RR	50	15.000	0,3	6	4,9	0,56	PT 1/4"	10	0,74	80
RRG-515RE	RR	50	15.000	0,52	6	17	0,74	PT 1/4"	10	2,6	80

1) 8 mm collet chuck also available: 50-500228-18 / 2) 8 mm collet chuck also available: 315073

Shaftlength: RRG-200REL: 116 mm / RRG-500REL: 180 mm / RRI-3425: 30 mm / RRI-3425L: 130 mm / RRI-3425EL: 215 mm

NOTE:

MG-7206B and RRG-200RE are also available in set (including assortment abrasives).

Collet chucks for die grinders are supplied with the tool.

For collet chucks and adaptors see page 92.

GRINDERS

Angle models turbo grinders and sets

Angle grinders



RRG-2090



RRI-3506



MG-7236B

Type	Brand	Wheel size mm	RPM	Power kW	Collet chuck mm	Air-cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRG-2090	RR	35	20.000	0,23	6	4,0	0,56	PT 1/4"	6,5	2,4	84
RRI-3506	RRI	40	20.000	0,22	6	4,9	0,55	PT 1/4"	6,5	1	80
MG-7236B	TOKU	40	20.000	0,20	6	5,0	0,45	PT 1/4"	6,5	2	85

Air turbine grinders



RRI-T1565 RRI-T1550 RRI-T1135



RRI-T3340



RRI-T4065 RRI-T3335

These RED ROOSTER Air turbine grinders with high RPM are specifically designed for grinding with carbide cutters. The Turbine motor ensures a very steady speed of the axle, with and without load. The turbine motor can operate without lubricated air.

Type	Brand	Wheel size mm	RPM	Power kW	Collet chuck mm	Air-cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-T1565	RRI	9	65.000	0,15	3	3,7	0,135	PT 1/4"	6,5	<2,5	75
RRI-T4065	RRI	9	65.000	0,4	3	5,6	0,2	PT 1/4"	6,5	<2,5	75
RRI-T1550	RRI	20	50.000	0,15	3	3,7	0,135	PT 1/4"	6,5	<2,5	75
RRI-T3340	RRI	20	40.000	0,33	6	5,6	0,4	PT 1/4"	6,5	<2,5	75
RRI-T1135	RRI	20	35.000	0,11	3	3,7	0,135	PT 1/4"	6,5	<2,5	75
RRI-T3335	RRI	20	35.000	0,33	3	5,6	0,2	PT 1/4"	6,5	<2,5	75

Die grinder set



RRI-3007 RRI-3006



MG-7206BSET



RRG-200RE/SET

Type	Brand	Wheel size mm	RPM	Power kW	Collet chuck mm	Air-cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-3007	RRI	9	70.000	0,08	3	1,6	0,35	PT 1/4"	6,5	1,2	77
RRI-3006	RRI	12	58.000	0,10	3	1,6	0,35	PT 1/4"	6,5	0,8	80

GRINDERS

Straight models

Straight grinders



GS-2EFS



TSG-3L



TSG-4L



TSG-5L



TSG-6L

Type	Brand	Wheel size mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
GS-2EFS	YOKOTA	65 x 13 x 9,5	14.000	0,45	3/8" x 16	10,0	1,3	PT 1/4"	10	3	84
TSG-3L	TOKU	75 x 13 x 9,5	11.500	0,53	3/8"	8,3	1,6	PT 3/8"	10	0,8	73
TSG-4L	TOKU	100 x 19 x 15,9	7.600	1,05	5/8"	16,6	3	PT 3/8"	13	1,1	83
TSG-5L	TOKU	125 x 19 x 12,7	7.600	1,05	5/8"	16,6	3	PT 3/8"	13	1,5	79
TSG-6L	TOKU	150 x 25 x 15,9	6.000	1,58	5/8"	20,0	4,2	PT 3/8"	13	0,8	80

Vertical grinders



7VC-6500FS 7VC-8500FS

Type	Brand	Wheel size mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
7VC-6500FS*	YOKOTA	230 x 6 x 22	6.500	1,74	5/8"	23,0	4,2	PT 3/8"	13	3	82
7VC-8500FS*	YOKOTA	180 x 6 x 22	8.500	1,74	5/8"	23,0	4,1	PT 3/8"	13	2,1	83

* Noise reduced

ACCESSORIES



Grinding disc for GS-2EFS

Order number	Dimensions
9300-0005-00-01	65 x 13 x 9,5

All vertical and straight grinders have a governor wheel for regulating the right speed of the grinding wheel. This reduces the risk of overspeeding and assures the best material removal.

Both YOKOTA and TOKU straight grinders have double bearings for a longer lifetime.

GRINDERS

Angle models



RRG-1046AL



G-40SRF



RRG-2134 RRG-2144 RRG-2155



TAG-40FLH

TAG-45MLH TAG-50MLH



G-40EF G-50EF



RRI-G50HP



RRI-G70



G-70EF



TAG-700QJL TAG-900QJL

Type	Brand	Wheel size mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
RRG-1046AL	RR	100 x (0,8-1,0) x 16	14.000	0,76	M6	14	1,7	PT 1/4"	10	2,5	83
G-40SRF	YOKOTA	100 x (0,8-6) x 16	13.000	0,39	M8 x 1,25	7,5	0,90	PT 1/4"	10	6,6	79
RRG-2134*	RR	100 x (0,8-6) x 16	12.000	1,04	M10 x 1,5	17,4	1,90	PT 3/8"	13	6,6	88
TAG-40FLH*	TOKU	100 x (0,8-6) x 16	13.000	0,55	M8	10,8	1,70	PT 3/8"	10	2,6	83
RRG-2144*	RR	115 x (0,8-7) x 22,2	12.000	1,04	M14x2	17,4	1,90	PT 3/8"	10	2,4	88
G-40EF*	YOKOTA	115 x (0,8-7) x 22,2	13.000	0,60	7/16"	10,8	1,40	PT 1/4"	13	6,6	79
TAG-45MLH*	TOKU	115 x (0,8-7) x 22,2	13.000	0,67	M14x2	10,8	1,80	PT 3/8"	10	2,7	83
RRG-2155*	RR	125 x (0,8-7) x 22,2	12.000	1,04	M14x2	17,4	1,90	PT 3/8"	13	6,6	88
G-50EF*	YOKOTA	125 x (0,8-7) x 22,2	12.000	0,60	7/16"	10,8	1,50	PT 1/4"	10	4	77
TAG-50MLH*	TOKU	125 x (0,8-7) x 22,2	12.000	0,67	M14x2	10,8	1,80	PT 3/8"	10	2,7	83
RRI-G50HP*	RRI	125 x (0,8-7) x 22,2	12.000	1,32	M14x2	17	1,8	PT 3/8"	13	<2,5	94
RRI-G70*	RRI	180 x (1,6-8) x 22,2	8.500	2	M14x2	33	4,1	PT 3/8"	16	2,4	83
G-70EF*	YOKOTA	180 x (1,6-8) x 22,2	8.500	1,12	5/8"	16,7	2,90	PT 3/8"	13	2,3	82
TAG-700QJL*	TOKU	180 x (1,6-8) x 22,2	8.500	1,10	-	16,6	3,10	PT 3/8"	13	2,6	82
TAG-900QJL*	TOKU	230 x (1,9-8) x 22,2	6.500	1,10	-	16,6	3,10	PT 3/8"	13	3,6	82

* Vibration reduced side handle

ACCESSORIES



Grinding disc for RRG-1046AL

Order number	Dimensions
5L-222893	100 x 1,0 x 16

VIBRATION REDUCED



The transfer of vibration to the user is greatly limited by the solid performance of the rubber handle. See page 96 for more information.

All angle grinders (except RRG-1046AL) are supplied with regulator for optimal safety and the correct RPM for best material removal.

Flanges for cup wheels and a tool service set for mounting the flanges are supplied with all grinders. Flanges for flat, thin discs for mounting on the YOKOTA grinders are optional.

The RRG-1046AL, RRG-2134, RRG-2144, RRG-2155, TAG-45 MLH, TAG-50 MLH, RRI-G50HP and RRI-G70 have a spindle lock for increased ease of changing the wheel.

GRINDERS

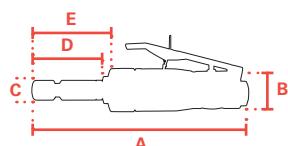
Dimensions & side handles

DIMENSIONS

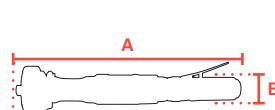
Type	A mm	B mm	C mm	D mm	E mm	Drawing
MG-OA	170	29	15	55	62	A
MG-OC	197	33	20	50	56	A
MG-1B	162	43	19	46	48	A
MG-7206B	164	40	-	-	-	A
RRG-200RE	162	40	18	30	34	A
RRG-200REL	258	40	18	116	135	A
RRG-500RE	190	45	22	30	-	A
RRG-500REL	350	45	22	180	190	A
RRG-515RE	200	43	21	50	-	A
RRG-1000RE	200	46	21	41	50	A
RRG-1000REL	330	46	21	171	50	A
RRI-3006	151	16	10	-	-	A
RRI-3007	151	16	10	-	-	A
RRI-3407	280	45	28	38	80	A
RRI-3425	215	40	12	30	43	A
RRI-3425L	310	40	12	130	130	A
RRI-3425EL	390	40	12	215	215	A
RRI-3430	190	34	14	16	22	A
RRI-3445	190	34	14	16	22	A
RRI-34100	140	29	10	15	21	A
GS-2EFS	350	51	-	-	-	B
TSG-3L	365	51	-	-	-	B
TSG-4L	460	65	-	-	-	B
TSG-5L	460	65	-	-	-	B
TSG-6L	490	80	-	-	-	B
RRG-2090	167	75	-	42	-	C
RRI-3506	150	80	-	40	-	C
MG-7236B	124	72	-	32	-	C
RRG-60160	121	140	-	-	-	D
HS-4		125	102			D
MS-4125B		150	110			D

All angle grinders are equipped with flanges to adapt flat and depressed grinding wheels.

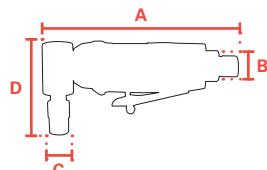
Drawing A



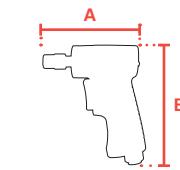
Drawing B



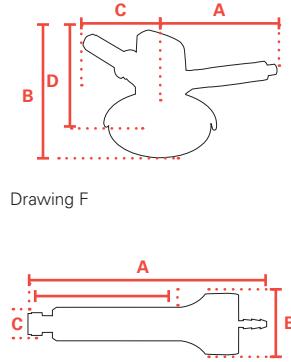
Drawing C



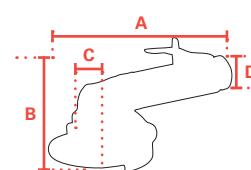
Drawing D



Drawing F



Drawing E



SIDE HANDLES FOR GRINDERS & SANDERS

Side handle	Order number
HS-4	1203-0013-0011*
G-40/50	
TAG-40/45/50	2400-046-11*
TAG-700/900	
RRI-G50-HP/G70	
RRG-2134/2144/2155	
G-70	1407-0013-0011*

* Supplied as standard

GRINDERS

Accessories

RUBBER PADS

Type	Order number	Diameter
RRG-2134	9310-3008-00-00	100 x 16 mm
RRG-2144	9310-3003-00-00	110 x 22 mm
TAG-45MLH		
RRG-2155	9310-3004-00-00	120 x 22 mm
G-50EF/RF		
TAG-50MLH		
RRI-G70	9310-3006-00-00	175 x 22 mm
G-70EF		



FLANGES FOR RUBBER PADS

Type	Order number	Description
RRG-2144	1508-0654-05-05	Outer flange
TAG-45MLH		
RRG-2155	1508-0654-05-05	Lock nut
G-50EF/RF	1120-0655-00-01	Outer flange
TAG-50MLH	1120-0655-00-05	
RRI-G70	1508-0654-05-05	
G-70EF	1422-0653-00-99	Inner flange



STANDARD FLANGES AND OUTER WHEEL SCREWS

Type	Order number	Description
G-40EF/RF	9310-3003-00-99	Disc 110 x 16 mm Paper 115 x 22 mm
G-50EF	9310-3004-00-99	Disc 120 x 16 mm Paper 125 x 22 mm
G-70EF	9310-3006-00-99	Disc 175 x 22 mm
7VC-6500FS		Paper 180 x 22 mm
7VC-8500FS		Paper 180 x 22 mm
RRI-G70	G70-0531-99	Disc 175 x 22 mm Paper 180 x 22 mm



STANDARD FLANGES AND OUTER WHEEL SCREWS

Type	Order number	Description
TAG-40FLH	42-05-77-171	* Outer flange
	13-17-08-020	* Outer wheel screw
TAG-45MLH	42-05-80-H00	* Outer flange
TAG-50MLH	42-05-80-H00	* Outer flange
TAG-700 QJL	2700-040-00	* Outer flange
TAG-900 QJL	2700-041-00	* Outer wheel screw
G-40SRF	1105-0654-02-02	* Outer flange
	1105-0656-02-00	* Outer wheel screw
G-70EF	1422-0653-00-99	* Inner flange
7VC-6500/8500	1508-0654-00-01	* Outer flange
	1508-0655-00-00	* Outer wheel screw
RRG-2134	61938A	* Inner flange
	61938A	* Outer flange
RRG-2144	5D-619239	* Inner flange
RRG-2155	5D-619240	* Outer flange



* Supplied as standard

ACCESSORIES FOR CUP STONES / CUP BRUSHES

Type	Order number	Description
7VC-6500FS	1508-0653-01-02	Inner flange
7VC-8500FS		
7VC-6500FS	8100-4003-00-01	Angle spanner
7VC-8500FS		
7VC-6500FS	8100-5001-00-00	Double key spanner
7VC-8500FS		



ACCESSORIES FOR GRINDING WHEELS

Type	Order number	Description
G-40/G-50 EF	1117-0653-00-01	Inner flange 16 mm
G-40/G-50 EF	1117-0654-00-01	Outer flange 16 mm
G-40/G-50 EF	1117-0653-00-02	* Inner flange 22 mm
G-40/G-50 EF	1117-0654-00-02	* Outer flange 22 mm
G-40/G-50 EF	1126-0655-00-00	* Outer wheel screw for 22 mm flens



* Supplied as standard

ACCESSORIES FOR FLAT CUT-OFF DISCS

Type	Order number	Description
G-70EF	1508-0653-00-03	Inner flange
7VC-6500FS		
7VC-8500FS		
G-70EF	1508-0654-00-02	Outer flange
7VC-6500FS		
7VC-8500FS		



PADS

Sanding pads	Order number	Description
HS-4	9350-1002-00-00	Fiber, 115 x 22 mm
MS-4125B		



GRINDERS

Accessories

COLLET CHUCKS



Type	Order number	Description	
MG-OA	1013-0661-01-99	*	6 mm
MG-OC	1011-0661-00-00	*	6 mm
MG-1B	42-04-90-K10	*	6 mm
MG-7206B	NVK-A10	*	3 mm
	T5-07-10-270	*	6 mm
	T5-07-10-27A	*	1/4"
MG-7236B	3003-035-00	*	6 mm
GS-2EFS/TSG-3L	1104-0661-01-99	-	6 mm
RRG-200RE(L)	51224	*	6 mm
RRG-500RE(L)	51224	*	6 mm
RRG-1000RE(L)	50-500228	*	6 mm
RRG-1000RE(L)	50-500228-18	-	8 mm
RRI-3407	315018	*	6 mm
	315073	-	8 mm

* Supplied as standard

TOOLS FOR MOUNTING GRINDING WHEELS AND SANDING PADS



Type	Order number	Description	
HS-4	8081-0021-00-00	*	Spanner H36
HS-4	8100-2001-00-00	*	Forked wrench
G-40 / G-50	8100-1003-00-00	*	Bar wrench
G-40 / G-50	8100-2001-00-00	*	Forked wrench
G-40 / G-50	8100-3001-00-00	*	L-wrench
G-70EF	8100-5002-00-00	*	Twin wrench
7VC6500FS			
7VC8500FS			
G-70EF	8081-0020-00-00	*	Spanner H32
7VC6500FS			
7VC8500FS			
TAG-40FLH	13-40-01-006	*	Hex wrench 6 mm
TAG-40FLH	42-05-71-G90	*	Wheel ring washer
TAG-40FLH	13-40-04-014	*	Combi spanner 14 x 19
TAG-45MLH			
TAG-50MLH			
TAG-45MLH	13-08-02-147	*	Socket bar
TAG-50MLH			
TAG-700QJL	8081-0022-00-00	*	Spanner H41
TAG-900QJL			
TAG-40FLH	9610-1010-00-00	*	Hex wrench H10
TAG-45MLH			
TAG-50MLH			
TAG-700QJL			
TAG-900QJL			
RRI-G50	G50-900-99	*	Forked wrench
RRI-G70			

* Supplied as standard

M14X2 QUICK NUT



Type	Order number
RRG-2144	QN-M14
RRG-2155	
RRI-G50	
RRI-G70	
TAG-45MLH	
TAG-50MLH	

ADAPTERS



Type	Order number
MG-OA / MG-OC / MG-1B	1001-0659-00-01
RRI-3425(L/EL)/ RRG-500RE(L)	
RRG-200RE(L) / RRG-2090	
RRI-3506	
RRI-T3340 / RRI-T5625 / RRI-3407	

EXHAUST HOSE/SILENCER KIT



Type	Order number
RRG-2134	5D-619249
RRG-2144	
RRG-2155	

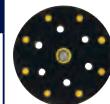
HOOK & LOOP PADS FOR SANDERS



Type	Order number	Description
RRI-5125-2NV	65-613342*	Pad 125 mm
RRI-5125-5NV		
RRI-5125-2CV	65-6133C42*	Pad 125 mm
RRI-5125-5CV		
RRI-5125-2SV	50LVJOSY-P	Pad 125 mm, multi hole
RRI-5125-5SV		
RRI-6150-2NV	610227V-61*	Pad 150 mm
RRI-6150-5NV		
RRI-T6250-5NV		
RRI-6150-2CV	66-613A43	Pad 150 mm, 15 holes
RRI-6150-5CV		
RRI-6150-2SV		
RRI-6150-5SV		
RRI-T6250-5CV		

* Supplied as standard

Order number
66-613A43
150 mm
15 holes



Order number
50LVJOSY-P
125mm
Multi hole



SANDERS



HS-4



MS-4125B

RRI-5125-2SV
RRI-5125-5SV
RRI-6150-2SV
RRI-6150-5SV



RRI-5125-2CV
RRI-6150-2CV
RRI-5125-5CV
RRI-6150-5CV



RRI-5125-2NV
RRI-6150-2NV
RRI-5125-5NV
RRI-6150-5NV



RRI-T6250-5NV
RRI-T6250-5CV



RRB-280

Type	Brand	Pad size mm	Stroke mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
HS-4	YOKOTA	127 x 22	-	12.000	0,5	7/16" x 20	9,2	1,1	PT 1/4"	10	2	79
MS-4125B	TOKU	125 x 22	-	20.000	0,5	7/16" UNF	8,3	1,0	PT 1/4"	10	2,3	90

PALM ORBITAL SANDERS

Type	Brand	Pad size mm	Stroke mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-5125-2NV	RRI	125	2,5	12.000	0,3	5/16" UNF	4,9	0,6	PT 1/4"	6,5	<2,5	73
RRI-5125-2CV	RRI	125	2,5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-5125-2SV	RRI	125	2,5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-5125-5NV	RRI	125	5	12.000	0,3	5/16" UNF	4,9	0,6	PT 1/4"	6,5	<2,5	73
RRI-5125-5CV	RRI	125	5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-5125-5SV	RRI	125	5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-6150-2NV	RRI	150	2,5	12.000	0,3	5/16" UNF	4,9	0,6	PT 1/4"	6,5	<2,5	73
RRI-6150-2CV	RRI	150	2,5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-6150-2SV	RRI	150	2,5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-6150-5NV	RRI	150	5	12.000	0,3	5/16" UNF	4,9	0,6	PT 1/4"	6,5	<2,5	73
RRI-6150-5CV	RRI	150	5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-6150-5SV	RRI	150	5	12.000	0,3	5/16" UNF	4,9	0,7	PT 1/4"	6,5	<2,5	73
RRI-T6250-5NV	RRI	150	5	12.000	0,3	5/16" UNF	4,9	1	PT 1/4"	6,5	3,65	73
RRI-T6250-5CV	RRI	150	5	12.000	0,3	5/16" UNF	4,9	1	PT 1/4"	6,5	3,65	73

*) Standard delivered with Hook & Loop pad. NV = No dust extraction / CV = For connection to central dust extraction / SV = Self created Vacuum for dust extraction

WIRE BRUSH SANDER

Type	Brand	Pad size mm	Stroke mm	RPM	Power kW	Spindle	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRB-280	RRI	80 ¹⁾	-	8.000	0,45	M14 x 2 ²⁾	9,6	1,5	PT 1/4"	10	9	80

1) Size wire brush (supplied without wire brushes) / 2) Spindle stainless steel

MINI-SANDERS



RRS-60152K RRS-60152



RRS-60153K RRS-60153



RRS-60323K

Type	Brand	Pad size mm	RPM	Power kW	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRS-60152 ¹⁾	RR	50	15.000	0,3	4,9	0,54	PT 1/4"	10	0,74	80
RRS-60153 ²⁾	RR	75	15.000	0,3	4,9	0,54	PT 1/4"	10	0,74	80
RRS-60323 ³⁾	RR	75	3.200	0,3	4,9	0,75	PT 1/4"	10	0,74	80

¹⁾ RRS-60152 = mini sander Ø50 mm (Roloc™-Pad) / ²⁾ RRS-60153 = mini sander Ø75 mm (Roloc™-Pad) /³⁾ RRS-60323 = mini polisher Ø75 mm (Velcro Pad)

The RRI mini sanders can be ordered as separate tool or as set (K) with sanding and/or polishing discs. The RRS-60323K is only available as set.

The RRI mini sanders RRS-60152 and RRS-60153K come in a plastic case containing the following sanding pads: 10 x grain 80, 10 x grain 100 and 10 x grain 120. The RRS-60323K comes with 2 polishing pads and 1 polishing bonnet.

The ROLOC™ system ensures quick and safe changing of the pads.

ACCESSORIES



Polishing discs



Pad RRS-60323



Roloc™ Pad

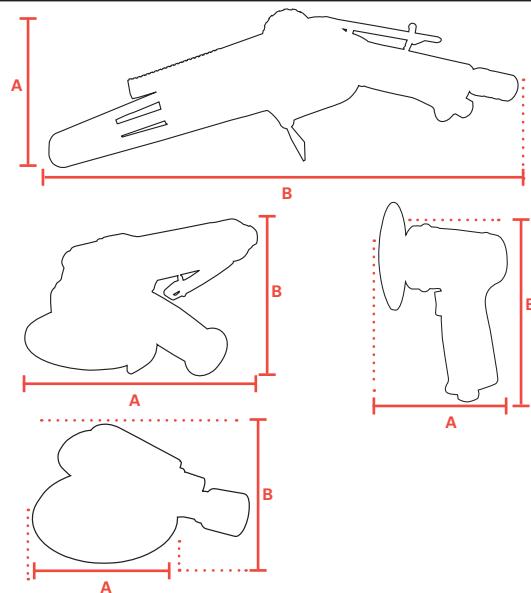
Type	Order number	Description
RRS-60043K & RRS-60323	SA-75543VC*	Yellow sponge 3½"
RRS-60043K & RRS-60323	SA-75653VC*	White sponge 3½"
RRS-60043K & RRS-60323	SA-77213*	Polishing bonnet 3½"

* Supplied as standard

Type	Order number	Description
RRS-60152	600125-21	Roloc™ Pad, Ø 50 mm
RRS-60153	600127-31	Roloc™ Pad, Ø 75 mm
RRS-60323	6004-031-00	Velcro sanding pad, Ø 75 mm

DIMENSIONS

Type	A mm	B mm	C mm	D mm
RRB-280	225	85	28	50
RRG-3611	50	265	-	-
RRG-3617K	50	265	-	-
RRG-3621	60	420	-	-
RRG-3630	60	490	-	-
RRI-5125-2NV/5NV	163	104	-	-
RRI-6150-2NV/5NV	163	104	-	-
RRI-5125-2CV/5CV	213	104	-	-
RRI-6150-2CV/5CV	213	104	-	-
RRI-5125-2SV/5SV	213	104	-	-
RRI-6150-2SV/5SV	213	104	-	-
RRI-T6250-5NV/5CV	262	104	-	-
RRS-60323	116	150	-	-
RRS-60152	116	140	-	-
RRS-60153	116	140	-	-



BELT SANDERS



RRG-3617K



RRG-3611



RRG-3621



RRG-3630

Type	Brand	Belt size mm	RPM	Power kW	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRG-3617K	RRI	6/10 x 330	20.000	0,28	6,7	0,75	PT 1/4"	10	0,6	80
RRG-3611	RRI	10 x 330	20.000	0,28	6,7	0,75	PT 1/4"	10	0,6	80
RRG-3621	RRI	20 x 520	18.000	0,34	8,7	1,40	PT 1/4"	10	2,5	79
RRG-3630	RRI	30 x 540	12.000	0,52	10,3	2,20	PT 1/4"	10	2	79

The RRG-3617K is the same as model RRG-3611 however supplied as set. This set contains a sanding arm 6 x 330 and a sanding arm 10 x 330 mm (1 tool, 2 applications).

The RED ROOSTER belt sanders are suitable for nearly all materials, e.g. steel, aluminium, plastics and wood and for use as a de-burring method in difficult access applications. All belt sanders are executed with safety handle and adjustable silencer and a regulator screw to reduce the RPM when handling sensitive materials.

ACCESSORIES



Sanding belts

Sanding belt for 6 mm sanding arm

SSB60660	6 x 330 mm	Korrel 60
SSB60680	6 x 330 mm	Korrel 80
SSB606100	6 x 330 mm	Korrel 100
SSB606120	6 x 330 mm	Korrel 120
SSB606150	6 x 330 mm	Korrel 150

Sanding belt for 20 mm sanding arm

SSB62060	20 x 520 mm	Korrel 60
SSB62080	20 x 520 mm	Korrel 80
SSB620100	20 x 520 mm	Korrel 100
SSB620120	20 x 520 mm	Korrel 120
SSB620150	20 x 520 mm	Korrel 150

Sanding belt for 10 mm sanding arm

SSB61060	10 x 330 mm	Korrel 60
SSB61080	10 x 330 mm	Korrel 80
SSB610100	10 x 330 mm	Korrel 100
SSB610120	10 x 330 mm	Korrel 120
SSB610150	10 x 330 mm	Korrel 150

Sanding belt for 30 mm sanding arm

SSB63060	30 x 540 mm	Korrel 60
SSB63080	30 x 540 mm	Korrel 80
SSB630100	30 x 540 mm	Korrel 100
SSB630120	30 x 540 mm	Korrel 120
SSB630150	30 x 540 mm	Korrel 150

VIBRATION REDUCTION

Raynauds phenomenon, RSI

Vibration of hand held tools, in particular heavier tools such as grinders and hammers, may pose serious health risks for the operators of the tools. When working for long periods of time, and on a daily basis, one can be subject to several severe conditions. To prevent these adverse effects we offer a selection of our product range with reduced vibration.

RAYNAUDS PHENOMENON

This condition is more commonly known as "white finger disease" and can be caused by workplace exposure. Occupationally, it is most commonly associated with "hand-arm vibration syndrome". It is important to know the signs and symptoms and the workplace hazards that cause it. Awareness and intervention, through the reduction of vibration exposure, can help prevent the disorder from progressing to a serious stage. If not detected in the early stages, the disorder can permanently impair blood circulation in the fingers.

RSI

Another potential condition the operator is subjected to is "repetitive strain injury", commonly known as RSI. It covers many types of soft tissue injuries, including carpal tunnel syndrome and tendinitis. A mixture of poor posture, stress, repetitive motion and bad ergonomics are the most common causes.

HOW TO AVOID THESE CONDITIONS:

- A well-balanced power to weight ratio
- Rubber handgrip to dampen vibrations
- Active vibration reduction
- Good quality tools and accessories
- Replace wear parts frequently

VIBRATION REDUCED



Red Rooster and TOKU have developed numerous vibration reduced models that lower the vibration of the tool to an acceptable and manageable level. When possible, always choose pneumatic tools with an active vibration reduction. Please see the tables in this catalogue for the vibration level and look out for the vibration reduced icon.



AIR HAMMERS



TFC-200F



RRI-4021/4



RRH-4312K

RRH-4309K



F-25



RRH-2000



AA-1.3BR(H)19x50

AA-1.3BR(H)17.5



RR-0315



AA-OBR(H)



THA-2BRH19x50

THA-3BRH19x50

THA-4BRH19x50



TFC-257H



BRH-6



RRI-4006VL & RRI-4007VL

* Used as hammer and needle scaler. See page 108

Type	Brand	Shank size mm	Bore diameter mm	Stroke mm	Blows p/min	J/Blow	Air cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
TFC-200F	TOKU	□ 12,7	20	10	12.000	1,5	4,1	1,1	PT 1/4"	6,5	14,3	91
F-25 ¹⁾	YOKOTA	□ 12,7 x 16 x 28	25	22	4.000	5,1	6	1,8	PT 1/4"	6,5	12	91
RR-0315	RR	□ 12,7 x 16 x 28	25	32	4.000	7,4	3	2,6	PT 1/4"	6,5	9,4	93
TFC-257H	TOKU	□ 12,7	25	34	4.000	7,9	6,7	1,73	PT 1/4"	10	14	92
RRI-4021/4 ¹⁾	RRI	○ 11 x ○ 12,7 x 40	18	30	4.500	3,5	10	2,2	PT 1/4"	10	3,5	88
RRH-2000	RR	○ 11 x ○ 12,7 x 40	17,4	42	5.000	4,5	8,4	1,5	PT 1/4"	10	8	88
AA-OBR(H)	TOKU	○ 12,7 x ○ 15 x 53	20	50	3.600	7,5	5,8	2,6	PT 3/8"	6,5	12	89
BRH-6	YOKOTA	○ 10,2 x 40	20	60	3.500	9,0	6,6	1,4	PT 1/4"	10	17	95
RRH-4309K	RR	○ 11 x ○ 12,7 x 40	19	67	3.200	9,0	7,1	1,7	PT 1/4"	10	2,2	95
RRH-4312K	RR	○ 11 x ○ 12,7 x 40	19	89	2.100	12,0	7,1	1,8	PT 1/4"	10	2,6	95
AA-1.3BR(H)19x50 ²⁾	TOKU	○ 19 x 50	24	58	2.800	12,7	7,5	4,5	PT 3/8"	10	10	93

For chisels overview see pages 101-104 / 1) For suction casings see page 100 / 2) Also available with shank size ○ 17,5 mm

HAMMER SETS



RRH-4309KSET1

RRH-4312KSET1

- Hammer
- 5 chisels for metal
- Quick change retainer



RRH-4309KSET2

RRH-4312KSET2

- Hammer
- 4 chisels for concrete or stone
- Quick change retainer

*Chisels are also available separately see pages 101-104.

AIR HAMMERS



RRI-4596/1



RRI-4596R



RRI-4612K VL



RRI-4612R VL

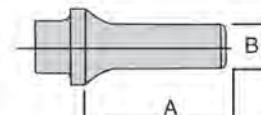
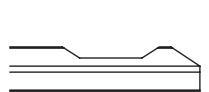


TCD-20

Type	Brand	Shank size mm	Bore diameter mm	Stroke mm	Blows p/min	J/Blow	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
THA-2BRH19x50	TOKU	Ø 19 x 50	28,5	51	2.300	15,7	14,2	6,8	PT 3/8"	13	11,6	93
THA-3BRH19x50	TOKU	Ø 19 x 50	28,5	64	2.200	19,9	15	7,2	PT 3/8"	13	8	93
THA-4BRH19x50	TOKU	Ø 19 x 50	28,5	102	1.800	31,8	15,8	7,8	PT 3/8"	13	11,6	93
RRI-4596/1	RRI	Ø 22 x 82	34	114	1.590	51,6	15,0	10,7	PT 3/4"	13	16	101
RRI-4596R	RRI	Ø 25 x 75	34	114	1.590	51,6	15,0	9,7	PT 3/4"	13	16	101
RRI-4612K VL	RRI	Ø 22 x 82	35	170	1.290	81,2	16,6	14,3	PT 3/4"	16	3,8	105
RRI-4612R VL	RRI	Ø 25 x 75	35	170	1.290	81,2	16,6	12,9	PT 3/4"	16	3,8	105
TCD-20	TOKU	Ø 22 x 82	43	60	2.000	42,4	18	11,4	PT 1/2"	13	16	106

For overview chisels see pages 101-104.

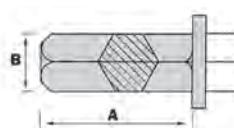
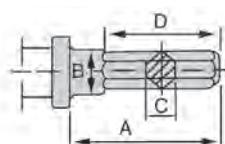
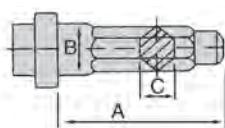
SHANK SIZE



Type	A	B	C	D
TFC-200F	51	23	21	9,5

Type	A	B	C
F-25	16	12,7	28
RR-0315	16	12,7	28
TFC-257H	13	12,7	27

Type	A	B
BRH-6	40	10,2
RRI-4596R	75	25
RRI-4612R VL	75	25



Type	A	B	C
RRH-2000	40	12,7	11
RRH-4309K	40	12,7	11
RRH-4312K	40	12,7	11
RRI-4021/4	40	12,7	11

Type	A	B	C
AA-OB3R(H)	53	15	12,7

Type	A	B
RRI-4596/1	82	22
AA-1.3BR(H)19x50	50	19
AA-3BR(H) 19x50	50	19
RRI-4612K VL	82	22
TCD-20	82	22
THA-2BRH 19x50	50	19
THA-3BRH 19x50	50	19
THA-4BRH 19x50	50	19

VIBRATION REDUCED

Vibration reduction in the hammers, breakers and drills enables longer working hours. For further information please refer to page 96.



BREAKERS & ROCK DRILLS

Paving Breakers



Type	Brand	Shank size mm	Bore diameter mm	Stroke mm	Blows p/min	J/Blow	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
TPB-40	TOKU	Ø 25 x 108	44	146	1.400	110	26	19	PT 3/4"	19	19,1	106
TPB-40SV ¹⁾	TOKU	Ø 25 x 108	40	146	1.050	110	26	19,5	PT 3/4"	19	5,5	106
TPB-501SV ¹⁾	TOKU	Ø 32 x 160	50	156	1.250	151	25	28,1	PT 3/4"	19	5,3	107
TPB-60	TOKU	Ø 32 x 160	57	100	1.400	125	27	30	PT 3/4"	19	9,7	110

¹⁾ Vibration reduced / For chisels please refer to pages 101-104.

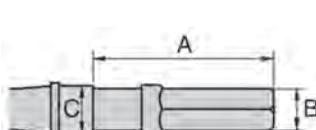
Rock Drills



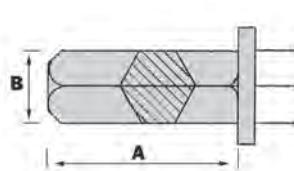
Type	Brand	Shank size mm	Bore diameter mm	Stroke mm	Blows p/min	RPM	J/Blow	Air cons l/sec	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
TH-5S ¹⁾	TOKU	Ø 19 x Ø 14,8 x 89	38	31	3.400	420	17	14	5,8	PT 3/8"	13	14	95
TJ-15SBS	TOKU	Ø 22 x 82	54	45	2.450	250	44,7	26	17,4	PT 3/4"	19	30	99
TJ-15SV LBS ¹⁾	TOKU	Ø 22 x 108	54	45	2.450	250	44,7	26	17,7	PT 3/4"	19	7	99
TJ-15SV SBS ¹⁾	TOKU	Ø 22 x 82	54	45	2.450	250	44,7	26	17,4	PT 3/4"	19	7	99
TJ-20SV LBS ¹⁾	TOKU	Ø 22 x 108	68	49	2.400	200	72	41	19	PT 3/4"	19	10,8	100
TJ-20SV SBS ¹⁾	TOKU	Ø 22 x 82	68	49	2.400	200	72	41	19	PT 3/4"	19	10,8	100

¹⁾ Vibration reduced. For drills please refer to page 105.

SHANK SIZE



Type	A	B	C
TH-55	89	14,8	19



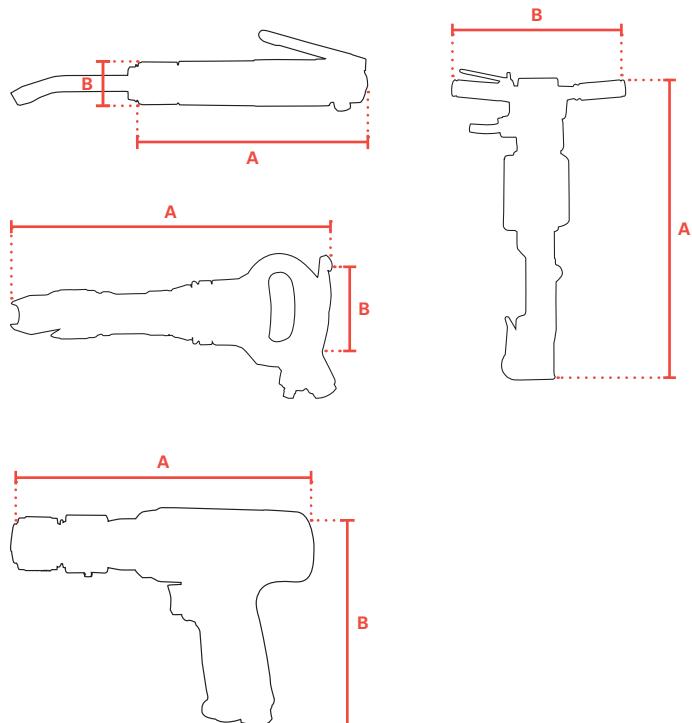
Type	A	B
TPB-40/40SV	108	25
TPB-50N/501SV	160	32
TPB-60	160	32
TJ-15LBS/SBS	108/82	22
TJ-20LBS/SBS	108/82	22

AIR HAMMERS BREAKERS & ROCK DRILLS

Dimensions & Accessories

DIMENSIONS

Type	A mm	B mm
AA-OBR(H)	245	95
AA-1.3BR(H)	300	76
BRH-6	200	149
F-25	310	43
RR-0315	320	43
RRH-2000	165	140
RRH-4309K	223	173
RRH-4312K	267	173
RRI-4021/4	255	100
RRI-4596/1	480	118
RRI-4596 R	480	118
RRI-4612k VL	645	120
RRI-4612R VL	645	120
TCD-20	520	100
TFC-200F	189	40
TFC-257H	330	43
TH-5S	425	250
THA-2BRH19x50	350	87
THA-3BRH19x50	422	87
THA-4BRH19x50	430	87
TJ-15	468	340
TJ-20	385	585
TPB-40	670	350
TPB-40SV	649	390
TPB-501SV	714	390
TPB-60	645	400



ACCESSORIES

For dust extraction of the models RRI-4021/4 and F25.
For other hammers ask for the most suitable solution.



DC6622



DC6078

QUICK CHANGE CHISEL RETAINER

Hammer	Order number	
BRH-6	PT-2311	
RRH-2000*	PT-2311	
RRH-4309	TJI-202A	
RRH-4312	TJI-202A	

CHISEL HOLDER

Hammer	Order number	
RRH-4309	TJI-202C	
RRH-4312	TJI-202C	

RETAINER SPRING

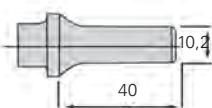
Hammer	Order number	
RRH-4309	TJI-207	
RRH-4312	TJI-207	

* Supplied as standard

SUCTION CASINGS FOR AIR HAMMERS

For hammer	Type	Tool connection Ø D (in/mm)	Hose connection (in/mm)	Height mm
F25	DC6622	43	38	158
RRI-4021/4	DC6078	61	38	178

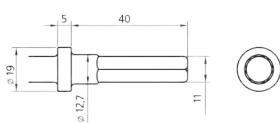
CHISELS FOR AIR HAMMERS



FOR HAMMERS
• YOKOTA BRH-6
• RED ROOSTER RRH-4210

SHANK SIZE Ø 10,2 MM X 40 MM

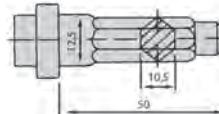
Order number	Description	L (mm) total	B (mm)
BE101002	Cutting chisel	122	20
BE101003	Sheet metal trimmer	135	16
BE101005	Muffler cutter	115	15
BE101006	Bushing splitter	132	12
BE101007	Spot-weld breaker bent	79	15
BE101008	Bushing driver	63	Ø 23
BE101010	Flat chisel	120	33
BE101011	Double edged cutter	110	22
BE101012	Shear bent	132	12
BE101016	Straight punch	120	Ø 12
BE101017	Spot-weld breaker	117	19
BE101018	Scraper	137	33
BE101019	Tail pipe cutter	119	29
BE101020	Concave scraping	130	34
BE101021	Wide cutting	129	44
BE101022	Diamond point	161	-
BE101024	Flat, bent	106	15
BE101025	River cutter	109	23
BE101027	Center punch chisel	106	Ø 9
BE101028	Pin punch	134	Ø 8



FOR HAMMERS
• RED ROOSTER RRH-2000
• RED ROOSTER RRH-4309K
• RED ROOSTER RRH-4312K
• RED ROOSTER RRI-4021/4

SHANK SIZE 11 MM HEX / Ø 12,7 MM X 40 MM

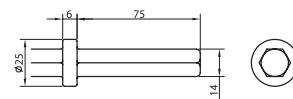
Order number	Description	L (mm) total	B (mm)
CB51102190	Wide Cuttingchisbent	190	32
CB51103185	45mm Wide hisel,L=185mm	185	45
CB51103250	Flat Chisel	235	40
CB51104190	Wide flat bent chisel	190	33
CB51109165	Flat Chisel	165	18
CB51109180	Flat Chisel	180	18
CB51109250	Flat Chisel	250	18
CB51109350	Flat Chisel	350	20
CB51112180	Flat Chisel	180	33
CB51112250	Flat Chisel	250	33
CB51114180	Double Bladepanelcutter	178	22
CB51115180	Moil point chisel	180	-
CB51115250	Moil Point	250	-
CB51116180	Chisel	175	26
CB51117180	Spotweld Breaker	179	20
CB51123180	Claw Ripper/PannelCutter	176	16
CB51193180	Slotting Tool W.Carbide Tip L=180	180	38
CB51193180-4	Slotting Tool W.Carbide Tip L=180	180	38
CB51193180-6	Slotting Tool W.Carbide Tip L=180	180	38



FOR HAMMERS
• RED ROOSTER RRH-4210K

SHANK SIZE 10,5 MM HEX X Ø 12,5 MM X 50 MM

Order number	Description	L (mm) total	B (mm)
BE151002	Cutting chisel	122	20
BE151003	Sheet metal trimmer	135	16
BE151004	Panel cutter	131	15
BE151005	Muffler cutter	115	15
BE151007	Spot-weld breaker bent	79	15
BE151008	Bushing driver	63	Ø 23
BE151009	Tapered punch	132	Ø 3
BE151010	Flat chisel	120	33
BE151011	Double edged cutter	110	22
BE151012	Shear bent	132	12
BE151014	Double blade panel cutter	136	18
BE151015	Wide cutting, bent	130	33
BE151016	Straight punch	120	Ø 12
BE151017	Spot-weld breaker	117	19
BE151018	Scraper	137	33
BE151019	Tail pipe cutter	119	29
BE151020	Concave scraping	130	34
BE151021	Wide cutting	129	44
BE151022	Diamond point	161	-
BE151024	Flat, bent	106	15
BE151026	Round nose panel cutter	90	21
BE151027	Center punch chisel	106	Ø 9
BE151028	Pin punch	134	Ø 8
BE152001	Slotting tool with carbide tip	155	30

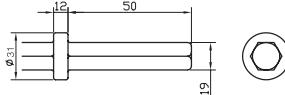


FOR HAMMERS
• Von Arx

SHANK SIZE 13,8 MM 6-KT X 75 MM

Order number	Description	L (mm) total	B (mm)
CB5100105/3	Moil point	180	-
CB5100102/3	Flat chisel	110	24
CB5100104/3	Flat chisel	180	24
CB5100103/3	Wide flat chisel	180	40
CB5100107/3S	Wide flat chisel	180	60
CB5100115/3	Wide flat chisel	180	100
CBMCOVAXS	Slotting tool with carbide tip	120	35

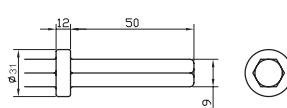
CHISELS FOR AIR HAMMERS

**FOR HAMMERS**

- TOKU AA-1.3BR(H) 19x50
- TOKU THA-Series

SHANK SIZE 19 MM 6-HEX X 50 MM

Order number	Description	L (mm) under the collar	B (mm)
MP5	Moil point	250	-
MP5-350	Moil point	350	-
MP5-450	Moil point	450	-
NC5	Flat chisel	250	25
NC5-350	Flat chisel	340	25
NC5-450	Flat chisel	440	25
CB5	Wide flat chisel	250	60
CB5-G	Wide flat bent chisel	250	60

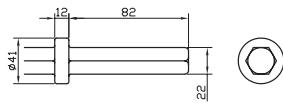
**FOR HAMMERS**

- TOKU TPB-40
- TOKU TPB-40SV

SHANK SIZE 25 MM HEX X 108 MM

Order number	Description	L (mm) under the collar	B (mm)
MP3	Moil point	380	-
MP3-450	Moil point	450	-
MP3-1000	Moil point	1.000	-
MP3-1500	Moil point	1.500	-
MP3-2000	Moil point	2.000	-
NC3	Flat chisel	380	25
NC3-450	Flat chisel	450	25
CB3	Wide flat chisel	360	75
DC3	Digging chisel	400	75
AC3	Asphalt cutter	400	125
AC3-PF*	Asphalt cutter	400	125

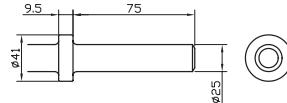
* When the chisel lies flat the position of the tip of the hex faces upwards

**FOR HAMMERS**

- TOKU TCD-20
- RED ROOSTER RRI-4596/1
- RED ROOSTER RRI-4612K VL

SHANK SIZE 22 MM HEX X 82,5 MM

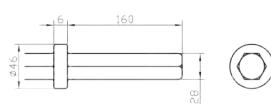
Order number	Description	L (mm) under the collar	B (mm)
MP4	Moil point	380	-
MP4-450	Moil point	450	-
MP4-1000	Moil point	1.000	-
MP4-1500	Moil point	1.400	-
MP4-2000	Moil point	1.900	-
NC4	Flat chisel	380	28
NC4-450	Flat chisel	450	28
NC4-1000	Flat chisel	1.000	27
NC4-1500	Flat chisel	1.500	28
NC4-2000	Flat chisel	2.000	27
NC4-2500	Flat chisel	2.500	27
CB4	Wide flat chisel	380	75
DC4	Asphalt chisel	400	75
AC4	Asphalt cutter	350	100

**FOR HAMMERS**

- RED ROOSTER RRI-4596/R
- RED ROOSTER RRI-4612R VL

SHANK SIZE Ø 25 MM X 75 MM,
ROUND COLLAR 42 MM

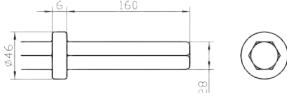
Order number	Description	L (mm) under the collar	B (mm)
B350MP	Moil point	350	-
B450MP	Moil point	450	-
B600MP	Moil point	600	-
B1000MP	Moil point	1.000	-
B1500MP	Moil point	1.500	-
B2000MP	Moil point	2.000	-
B350NC	Flat chisel	350	24
B450NC	Flat chisel	450	24
B600NC	Flat chisel	600	24
B1000NC	Flat chisel	1.000	24
B1500NC	Flat chisel	1.500	24

**FOR HAMMERS**

- TOKU TPB-50N
- TOKU TPB-501SV
- TOKU TPB-60

SHANK SIZE 32 MM HEX X 160 MM

Order number	Description	L (mm) under the collar	B (mm)
MP1A	Moil point	380	-
MP1	Moil point	450	-
MP1-900	Moil point	900	-
MP1-1500	Moil point	1.500	-
NC1A	Flat chisel	380	35
NC1	Flat chisel	450	35
CB1A	Wide flat chisel	380	75
DC1	Digging chisel	400	75
AC1	Heavty asphalt cutter	270	115
CB5019	Asphalt cutter	280	125

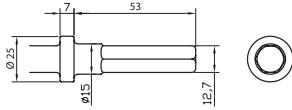
**FOR HAMMERS**

- TOKU TPB-40
- TOKU TPB-40SV

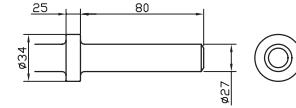
SHANK SIZE 28 MM HEX X 160 MM

Order number	Description	L (mm) under the collar	B (mm)
MP2A	Moil point	380	-
MP2	Moil point	450	-
NC2A	Flat chisel	380	35
NC2	Flat chisel	450	35
CB2A	Wide flat chisel	380	75
DC2	Wide flat chisel	400	75
CB5819	Asphalt cutter	350	125

CHISELS FOR AIR HAMMERS

**FOR HAMMERS**

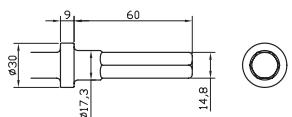
- TOKU AA-OB
- TOKU AA-OBR(H)

**FOR HAMMERS**

- RED ROOSTER RRH-4210K

SHANK SIZE 12,7 MM HEX / Ø 15 MM X 53 MM

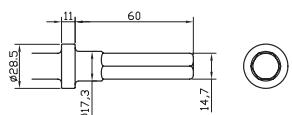
Order number	Description	L (mm) total	B (mm)
BEAA-OB-01	Flat chisel	220	16
BEAA-OB-01 400MM	Flat chisel	400	16
BEAA-OB-02	Diamond point	220	-
BEAA-OB-02 400MM	Diamond point	400	-
BEAA-OB-03	Flat chisel	220	25
BEAA-OB-04	Flat chisel	220	49
BEAA-OB-04 540MM	Flat chisel	540	49
BEAA-OB-05	Flat chisel	220	97
BEAA-OB-06	Flat chisel bent	220	50

**FOR HAMMERS**

- TOKU AA-1.3B,
AA-3B (old series)

SHANK SIZE 14,8 MM HEX / Ø 17,3 MM X 60 MM

Order number	Description	L (mm) total	B (mm)
CB3210260	Moil point	280	-
CB3210450	Moil point	530	-
CB418	Round nose	210	-
CB420	Diamond point	160	-
CB3211260	Flat chisel	380	22
CB424	Flat chisel	190	50
CB426	Flat chisel	137	38
CB3218200	Wide flat chisel	190	50
CB3217210G	Wide flat chisel, bent	200	95
CB3211450	Flat chisel, bent	510	22

**FOR HAMMERS**

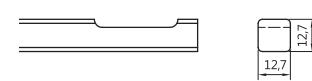
- TOKUTHH-2BH
- TOKUTHH-3BH
- TOKUTHH-4BH

SHANK SIZE 14,7 MM HEX / Ø 17,3 MM X 60 MM,
OVAL COLLAR

Order number	Description	L (mm) total	B (mm)
HS2-OC	Flat chisel	200	24
CB304	Flat chisel	158	24
CB304-12	Flat chisel	234	24
CB304-18	Flat chisel	386	24
CB324-24	Flat chisel	610	50
HS2-32-OC	Wide flat chisel	200	32
HS2-50-OC	Wide flat chisel	200	50
HS6-OC	Moil point	200	-

SHANK SIZE 27 MM X 80 MM, COLLAR 34 MM SQUARE

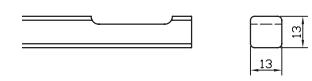
Order number	Description	L (mm) total	B (mm)
CB1362010045	Moil point	400	-
CB1362011045	Flat chisel	400	27

**FOR HAMMERS**

- AC RRC-12

SHANK SIZE 13 MM SQUARE, WITH RRC RECESS

Order number	Description	L (mm) total	B (mm)
CB3251	Flat chisel	180	19
CB3251-300	Flat chisel	300	19
CB3251-450	Flat chisel	450	19
CB3252	Wide flat chisel	155	34
CB3252-300	Wide flat chisel	240	34
CB3253	Wide flat chisel, bent	178	34

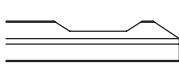
**FOR HAMMERS**

- AC RRC

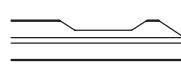
SHANK SIZE 13 MM SQUARE, WITH RRC RECESS

Order number	Description	L (mm) total	B (mm)
CB4221	Flat chisel	180	19
CB4222	Wide flat chisel	153	38
CBMCORRC13.2	Slotting tool with carbide tip (d=8)	150	36
CBMCORRC13.0-4	Slotting tool with carbide tip (d=4)	150	36
CBMCORRC13.0-6	Slotting tool with carbide tip (d=6)	150	36
CBMCO422180-1	Slotting tool with carbide tip (d=8)	180	36
CBMCO422180-2	Slotting tool with carbide tip (d=4)	180	36
CBMCO422180-3	Slotting tool with carbide tip (d=6)	180	35

CHISELS FOR AIR HAMMERS


FOR HAMMERS

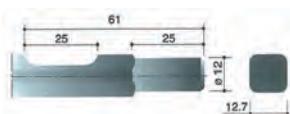
- YOKOTA F-25
- RED ROOSTER RR-0315


FOR HAMMERS

- TOKU TFC-257H

SHANK SIZE 12,7 MM SQUARE, WITH RECESS

Order number	Description	L (mm) total	B (mm)
BE15/1B	Flat, bent	112	20
BE15/1F	Flat chisel	115	20
BE15/1G	Wide flat chisel, bent	114	34
BE15/1W	Wide flat chisel	115	34
8160-1002-00-00	Flat, bent	115	25
CBMCOF25-150	Slotting tool with carbide tip	103	33
CBMCOF25-180	Slotting tool with carbide tip (d=8)	180	35
CBMCOF25-180-4	Slotting tool with carbide tip(d=4)	180	35
CBMCOF25-180-6	Slotting tool with carbide tip (d=6)	180	35


FOR HAMMERS

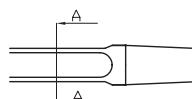
- TOKU TFC-200F

SHANK SIZE 12,7 MM SQUARE, WITH RECESS

Order number	Description	L (mm) total	B (mm)
CB382	Flat chisel	178	19
CB382-12	Flat chisel	300	19
CB382-18	Flat chisel	455	19
CB383	Wide flat chisel	178	35
CB383-12	Wide flat chisel	300	35
CB383-18	Wide flat chisel	450	35
CB384	Wide flat chisel, bent	178	35
CB384/12	Wide flat chisel, bent	300	35
CB380	Wide flat chisel	178	50
CB380-3	Wide flat chisel	200	75
CBMCOIR180	Slotting tool with carbide tip	200	35
CBMCOIR180-4	Slotting tool with carbide tip (d=4)	200	35
CBMCOIR180-6	Slotting tool with carbide tip (d=6)	200	35

SHANK SIZE 12,7 MM SQUARE, WITH RECESS

Order number	Description	L (mm) total	B (mm)
CB40901180	Moil point	180	-
CB40902180	Flat chisel	180	19
CB40903180	Wide flat chisel, bent	180	35
CB40904180	Wide flat chisel, bent	180	35
CB40905180	Wide flat chisel	180	50
CB40906180	Wide flat chisel, bent	180	50


FOR HAMMERS

- IR9001 (e.g.)

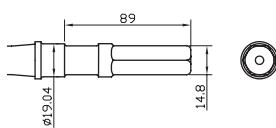
SHANK SIZE JUMBO SQUARE

Order number	Description	L (mm) total	B (mm)	Ø
CB296	Moil point	250	-	
CB297	Moil point	300	-	
CB276	Flat chisel	250	24	
CB276-12	Flat chisel	300	24	
CB276-18	Flat chisel	450	24	
CB278	Punch	250	-	10
CB279	Punch	250	-	13
CB280	Punch	250	-	16
CB281	Punch	250	-	19
CB282	Punch	250	-	22
CB283	Punch	250	-	25
CB284	Punch	250	-	28

SHANK SIZE 12,7 MM SQUARE WITH RECESS

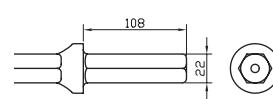
Order number	Description	L (mm) total	B (mm)
704.3101	Moil point	178	19
704.3103	Wide flat chisel	178	64
704.3107	Flat chisel	254	19
704.3110	Wide flat chisel spark free	178	50
704.3205	Flat bent chisel	178	35

DRILLS FOR AIR HAMMERS



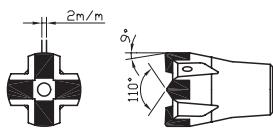
MONOBLOC-DRILLS SHANK 14.8 MM HEX X 89 MM
COMBI FOR HAMMERS - TOKU TH-5S

Order number	L (mm) total	Ø (mm)
CB9F25013	330	13
CB9F25014	330	14
CB9F25016	330	16
CB9F25019	330	19
CB9F25022	330	22
CB9F35014	430	14
CB9F35016	430	16
CB9F35019	430	19
CB9F35022	430	22



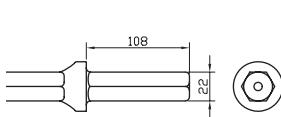
MONOBLOC-DRILLS SHANK 22 MM HEX X 108 MM
FOR HAMMERS - TOKU TJ-15LBS / TJ-20LBS

Order number	L (mm) total	Ø (mm)
CB2240016	400	16
CB2260016	600	16
CB2240019	400	19
CB2260019	600	19
CB22100019	1.000	19
CB2230022	300	22
CB2240022	400	22
CB2260022	600	22
CB22100022	1.000	22
CB2240025	400	25
CB2260025	600	25
CB22100025	1.000	25
CB2260028	600	28
CB2260030	600	30



DRILL BIT CROSSHEADS, KONUS II

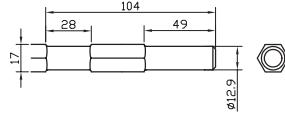
Order number	L (mm) total	Ø (mm)
CB6126300030	-	30
CB6126300032	-	32
CB6126300034	-	34
CB6126300036	-	36
CB6126300038	-	38
CB6126300040	-	40
CB6126300045	-	45
CB6126300050	-	50
CB6126300055	-	55



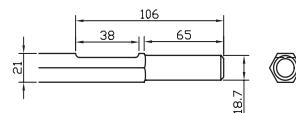
DRILL BARS SHANK 22 MM HEX X 108 MM
KONUS II FOR HAMMERS - TOKU TJ-15LBS / TJ-20LBS

Order number	L (mm) total	Ø (mm)
CB2261510500	500	-
CB2261510800	800	-
CB2261511000	1.000	-
CB2261511400	1.400	-
CB2261512000	2.000	-
CB2261512400	2.400	-

CHISELS FOR ELECTRIC HAMMERS

**FOR HAMMERS**

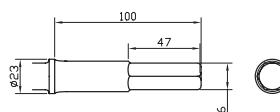
- Makita 0810, 8035

**FOR HAMMERS**

- Kangoo 900/950

SHANK SIZE Ø 12,9 MM X 77 MM

Order number	Description	L (mm) total	B (mm)
CB2453	Flat chisel	280	20
CB2455	Wide flat chisel	280	40

**FOR HAMMERS**

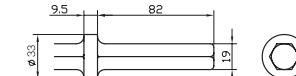
- Duss PK35, PK40, PK45, PK75

SHANK SIZE 16 MM HEX X 100 MM

Order number	Description	L (mm) total	B (mm)
CB2291	Moil point	400	-
CB2293	flat chisel	400	24

SHANK SIZE Ø 19 MM X 65 MM

Order number	Description	L (mm) total	B (mm)
CB2362	Moil point	380	-
CB2363	Moil point	450	-
CB2366	Flat chisel	380	24
CB2367	Flat chisel	450	24
CB100134	Floorscraper	270	150
CB100156	Blade for floorscraper M10	-	150
CB100156-M12	Blade for floorscraper M12	-	150
CBB61040K	Repair kit for floorscraper M10	-	-
CBB61040K-M12	Repair kit for floorscraper M12	-	-

**FOR HAMMERS**

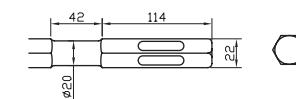
- Wacker

SHANK SIZE Ø 16,3 MM X 19 MM

Order number	Description	L (mm) total	B (mm)
CB2061	Moil point	300	-
CB2066	Flat chisel	300	24
CB2072	Wide flat chisel	400	50

SHANK SIZE 19 MM HEX X 82,5 MM

Order number	Description	L (mm) total	B (mm)
CB2904	Flat chisel	330	24
CB2906	Flat chisel	500	24
CB2907	Wide flat chisel	330	65

**FOR HAMMERS**

- Duss PK160, PK300

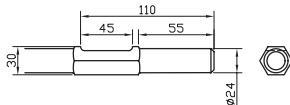
SHANK SIZE 22 MM HEX WITH RECESS

Order number	Description	L (mm) total	B (mm)
CB100526	Moil point	400	-
CB100533	Moil point	500	-
CB100534	Flat chisel	500	28
CB100535	Wide flat chisel	500	50

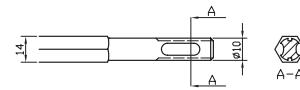
SHANK SIZE Ø 19 MM X 65 MM

Order number	Description	L (mm) total	B (mm)
CB2381	Wide flat chisel	300	50
CB2381-L	Wide flat chisel	380	50
CB2382	Wide flat chisel	300	75
CB944484	Adaptor for floorscraper	450	-

CHISELS FOR ELECTRIC HAMMERS

**FOR HAMMERS**

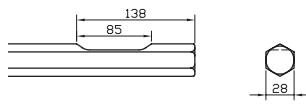
- Makita
- Hitachi



SHANK SIZE Ø 24 MM X 55 MM

Order number	Description	L (mm) total	B (mm)
CB3021	Moil point	400	-
CB3022A *	Flat chisel	400	32
CB3022B *	Flat chisel	400	32
CB3023A *	Wide flat chisel	400	75
CB3023B *	Wide flat chisel	400	75
CB3024A *	Asphalt cutter	400	125

* Type A: recess parallel on flat side of the spade, type B: crosswise

**FOR HAMMERS**

- Bosch USH27, 11304

SDS PLUS

Order number	Description	L (mm) total	B (mm)
CB2101	Moil point	250	-
CB2102V	Flat chisel	250	20
CB2103	Wide flat chisel	250	40
CBMCOSDSPLUSKORT	Slotting tool with carbide tip	158	35
CBMCOSDSPLUSLANG	Slotting tool with carbide tip	250	35

SHANK SIZE 28MM HEX WITH RECESS

Order number	Description	L (mm) total	B (mm)
CB2001	Moil point	400	-
CB2003	Flat chisel	400	35
CB2005	Wide flat chisel	400	75

**FOR HAMMERS**

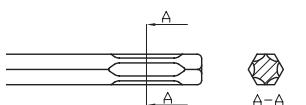
- Impex EH25

SDS MAX

Order number	Description	L (mm) total	B (mm)
CB04001	Moil point	280	-
CB04002	Moil point	400	-
CB04003	Moil point	600	-
CB04004	Flat chisel	280	25
CB04005	Flat chisel	400	25
CB04006	Flat chisel	600	25
CB04007	Hollow gouge	300	26
CB04007-33	Hollow gouge	300	33
CB04009	Wide flat chisel	400	50
CB04010	Wide flat chisel	300	80
CB04013	Wide flat chisel	350	115
CB04011	Wide flat chisel, bent	300	50
CB04012	Wide flat chisel, bent	300	80
CBMCOMAX	Slotting tool with carbide tip	280	-
CB914978	Adaptor for floorscraper	450	-
CB100134	Floorscraper	270	150
CB100156	Blade for floorscraper	-	150
CB100156-M12	Blade for floorscraper M12	-	150
CBB61040K	Repair kit for floorscraper	-	-
CBB61040K-M12	Repair kit for floorscraper M12	-	-

SHANK SIZE 11 MM

Order number	Description	L (mm) total	B (mm)
CBMCOEH25	Slotting tool with carbide tip	250	35

**FOR HAMMERS**

- Hilti TE805, TE905
- TE-1000-AVR & TE-2000-AVR

SHANK SIZE HILTI TE805 AND TE905

Order number	Description	L (mm) total	B (mm)
CB914972	Moil point	360	-
CB914974	Moil point	500	-
CB914982	Flat chisel	360	30
CB914992	Wide flat chisel	360	50
CB914995	Wide flat chisel	360	75

NEEDLE SCALERS

Straight & Pistol Models



Type	Brand	Bore diameter mm	Stroke mm	Blows p/min	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
YK-2 ¹⁾	YOKOTA	24	33	8.000	6	2,5	PT 3/8"	6,5	5,6	85
TFC-N200	TOKU	20	10	12.000	4,1	1,2	PT 1/4"	6,5	14,3	91
F-25N	YOKOTA	25	22	4.000	6	2,3	PT 1/4"	6,5	10	78
RR-0315NS	RR	25	32	4.000	6,6	2,6	PT 1/4"	6,5	9,4	93
RR-2110NS	RR	23,5	33	3.000	6,6	2,5	PT 1/4"	6,5	20	96
RRI-4006	RRI	23,5	34	3.000	2,6	2,6	PT 1/4"	6,5	17	90
RRI-4006VL ^{2) 3)}	RRI	23,5	34	2.400	1,9	2,7	PT 1/4"	6,5	2,7	90
RRI-4007	RRI	30,5	30,5	2.500	3,3	4,3	PT 1/4"	6,5	12	91
RRI-4007VL ^{2) 3)}	RRI	34,4	30,5	3.000	2,6	3,4	PT 1/4"	6,5	1,9	95

¹⁾ Scaler/scabler / ²⁾Vibration reduced / ³⁾ Can also be used as air hammer, see below

NOTE

All needle scalers are supplied with 3mm needles

NEEDLE SCALER SETS

Chisel holder and anvil also separately available.



Order number	Description
419.2003	Chisel Holder 1/2" Square
610.2003	Anvil

Conversion kits for RRI-4006VL vibration reduced needle scaler.

Order number	Description
419.3003	Chisel Holder 1/2" Square
610.3003	Anvil

Conversion kits for RRI-4007VL vibration reduced needle scaler.
For overview of Chisel see pages 101-104.

NEEDLE SCALERS

Accessories & Dimensions

NEEDLEHOLDERS

Type	2 mm	3 mm	4 mm
TFC-N200	Y3-06-12-220	Y3-06-12-200*	-
F-25N	-	6203-0829-02-00*	-
RR-0315NS	-	SG-0315NS-25*	-
RR-2110NS	SG-2110NS-24	SG-2110NS-17*	-
RRI-4006	218	217*	-
RRI-4006VL	601.2020	601.2030*	-
RRI-4007	330	314*	353
RRI-4007VL	601.3020	601.3030*	601.3040

* Supplied as standard

NUMBER OF NEEDLES

Needle for type	Amount 2 mm	Amount 2 mm	Amount 4 mm
TFC-N200	21	12	-
F-25N	-	19	-
RR-0315NS	-	19	-
RR-2110NS	29	19	-
RRI-4006	51	19	-
RRI-4006VL	51	19	-
RRI-4007	65	28	19
RRI-5007VL	65	28	19

All needle scalers are supplied as standard with 3 mm needles,
except RRI-4008 which is supplied with 4 mm needles.

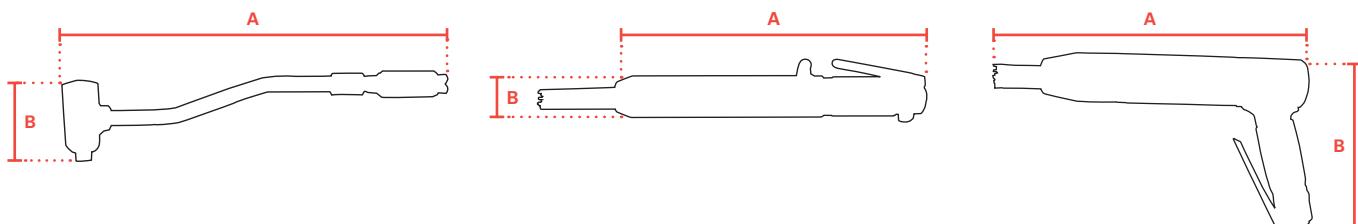
NEEDLE

Ø	Version	Length	Order Number
2 mm	Blunt, hardened steel	178 mm	6203-0827-02-01
3 mm	Blunt, hardened steel	178 mm	6203-0827-03-01*
3 mm	Chisel point, hardened steel	178 mm	6203-0827-03-02
3 mm	Copper-beryllium	178 mm	6203-0827-03-03
4 mm	Blunt, hardened steel	178 mm	6203-0827-04-01
Ø	Version	Length	Order Number
3 mm	TFC-N200	125 mm	Y3-06-12-210

* Supplied as standard

DIMENSIONS

Type	A mm	B mm
YK-2	489	126
F-25N	412	43
RR-0315NS	415	45
RR-2110NS	340	175
RRI-4006	330	48
RRI-4006VL	340	48
RRI-4007	460	57
RRI-4007VL	330	48
TFC-N200	273	36



LONG REACH SCALERS

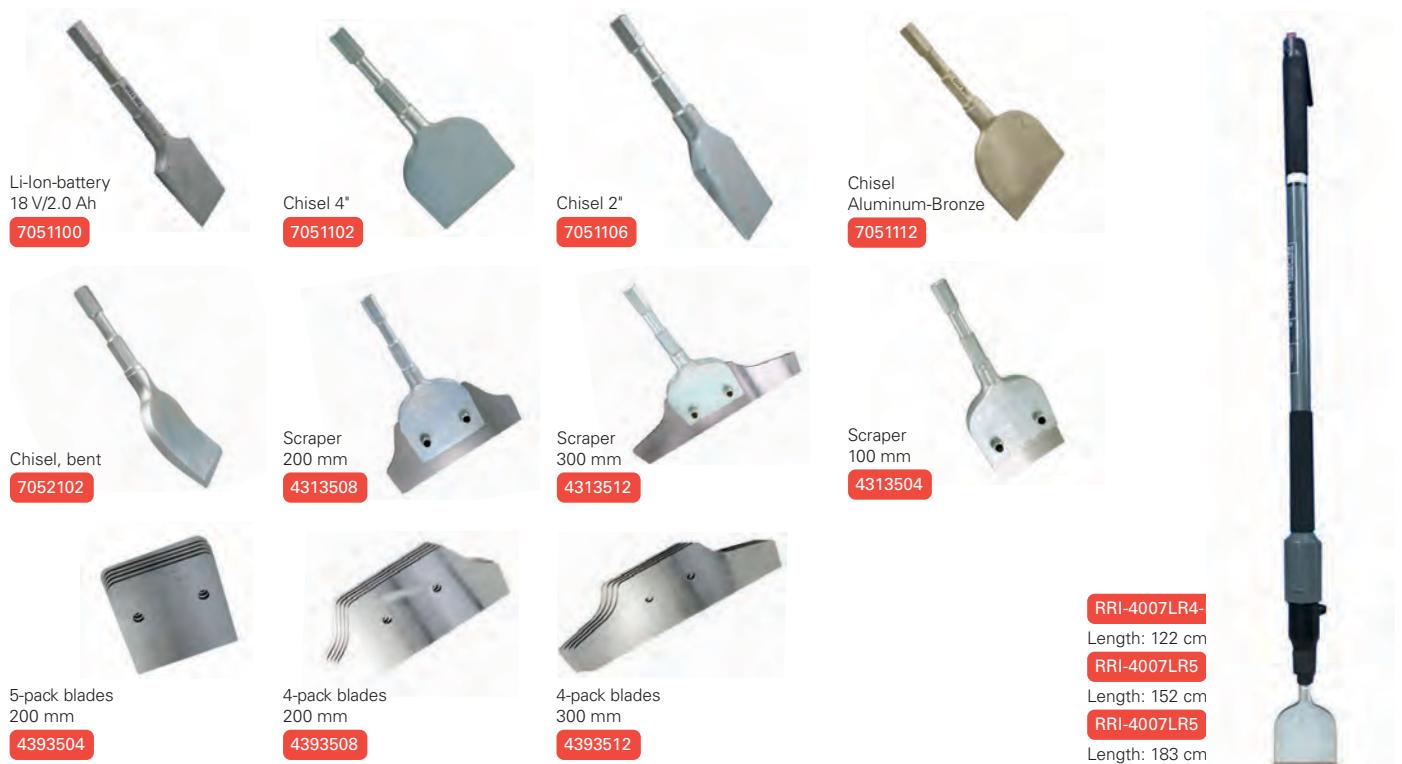
RRI 4000 series

This tool is intended to ergonomically clean a surface.

It functions just like a needle scaler / hammer.

CAN BE USED FOR APPLICATIONS SUCH AS

- Removal of floor coverings, adhesive layers, tiles and tarpaulin
- Remove rust or paint layers
- Removal of slag in, for example, a laser plasma cutting machine
- Facade cleaning



Type	Brand	Shank size mm	Bore diameter mm	Stroke mm	Blows p/min	J/Blow	Air-cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-4007LR4-LITE	RRI	15,88	28,6	39	2.200	15,55	2,1	3,7	PT 1/4"	10	13	85,8
RRI-4007LR5	RRI	15,88	28,6	39	2.200	15,55	2,1	6,25	PT 1/4"	10	11,4	82,4
RRI-4007LR6	RRI	15,88	28,6	39	2.200	15,55	2,1	6,9	PT 1/4"	10	7,7	84,3

SAWS

RRJ, RRI

Reciprocating Saws



RRJ-8205



RRJ-8210

Type	Brand	Capacity steel mm	Capacity aluminium mm	Strokes min ⁻¹	Stroke mm	Power kW	Air cons l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRJ-8205*	RR	10	12	5.000	25	0,25	2,8	0,96	PT 1/4"	6,5	3,5	79
RRJ-8210*	RR	3,1	3,9	9.500	10	0,25	2,8	0,51	PT 1/4"	6,5	3,5	78

*Includes sawblades and rotating clutch. See the next page for accessories.

CHARACTERISTICS

- Vibration reduced and lightweight.
- Both tools are delivered with a swivel joint that allows flexibility.
- The sawing tools are delivered in a blow molded case, including an assortment of saw-blades.
- The RRJ-8210 has a full composite body; the RRJ-8205 has a plastic layer over its housing, offering good thermal isolation.

- For thin (sheet-) material, the RRJ-8210 is the best choice of tool, whilst the RRJ-8205 is better for heavier sawing-jobs.
- Files in different shapes, sawblades and other accessories are available on request.

Pipe Saw



This Red Rooster pipesaw is intended for heavy industrial use.

RRI-8460



Always use the tube spanner and chain for fixation of the tool!

Type	Brand	Capacity steel Ø mm	Strokes p/min	Stroke mm	Power kW	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-8460	RRI	45-530	300	65	1,1	20	8	BSP 3/4"	19	1,7	82

Saw is utilized for all the available standard blades on the market. The pipe clamps are optional. / See accessories for saws on the next page.

Chain Saw



RRI-8560



Type	Brand	Length sawblade inch	Max capacity mm	RPM ⁻¹	Power kW	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-8560	RRI	14"	340	18.000	1,5	50	7,6	BSP 3/4"	19	< 2,5 m/s ²	98

Saw comes with an Oregon sawblade and chain. / Accessories for saws on the next page.

SAWS

Accessories & Dimensions

ACCESSORIES



SAWBLADES FOR THE RRJ-8205

Description	Order number	Teeth
5-pack sawblades length: 140 mm	8205-518-00	18-teeth
	8205-524-00	24-teeth



SAWBLADES FOR THE RRJ-8210

Description	Order number	Teeth
5-pack sawblades: 74 mm	31418-5	18 teeth/inch St37, V2A, wood, plastics, metal plate up to 2,5 mm
5-pack sawblades: 74 mm	31442-5	24 teeth/inch St37, V2A, aluminium, metal plate up to 2 mm
5-pack sawblades: 74 mm	31432-5	32 teeth/inch, St37, V2A, aluminium, metal plate up to 1 mm
Files 5 mm length: 74 mm	8210-501-00	5 mm, square
	8210-502-00	5 mm, round
	8210-503-00	5 mm, half-round
	8210-504-00	5 mm, triangle



SAWBLADE AND CHAIN FOR THE RRI-8560

Description	Order number	Brand
Sawblade	140SPET041 DZ	Oregon
Chain	91VLX	Oregon

SAWBLADE AND CHAIN FOR THE RRI-8550*

Description	Order number	Brand
Sawblade	140SPEA041	Sandvik
Chain	91VG-52E	Sandvik

* The RRI-8550 is no longer available.



PIPE CLAMPS & SAWBLADES FOR THE RRI-8460

Description	Order number	Dimensions	Teeth
Extension chain	8460-201-50		
HSS-sawblades	Z22-10	200 x 25 x 1,5	16 teeth/inch
	Z22-6	300 x 25 x 1,5	16 teeth/inch
	Z22-7	400 x 25 x 1,5	16 teeth/inch
	Z22-72	500 x 28 x 2	14 teeth/inch
	Z22-73	600 x 28 x 2	14 teeth/inch
	Z22-75	770 x 28 x 2	12 teeth/inch
	Z22-31	300 x 25 x 1,5	12 teeth/inch
	Z22-30	530 x 28 x 1,5	12 teeth/inch
	Z22-37	940 x 32 x 2	12 teeth/inch
	Z22-9	200 x 25 x 1,5	8 teeth/inch
	Z22-29	400 x 25 x 1,5	8 teeth/inch
	Z22-74	600 x 28 x 2	8 teeth/inch
HSS-sawblade	Z22CT-06	300 x 25 x 2	16 teeth/inch
Sawblades tungsten carbide coating	2CT-72	500 x 32 x 2,5	-
	2CT-73	600 x 32 x 2,5	-



PIPE CLAMPS FOR THE RRI-8460

Type	Order number	Dimensions
Pipe clamps 6"	8460-200-00	6"
Pipe clamps 12"	8460-201-01	12"
Pipe clamps 20"	8460-205-00	20"

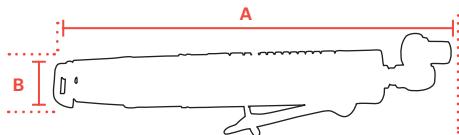
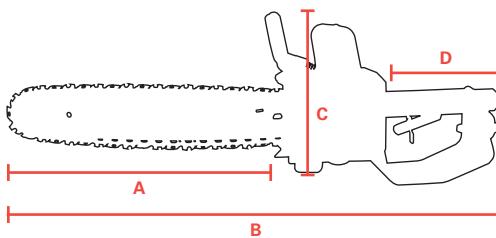
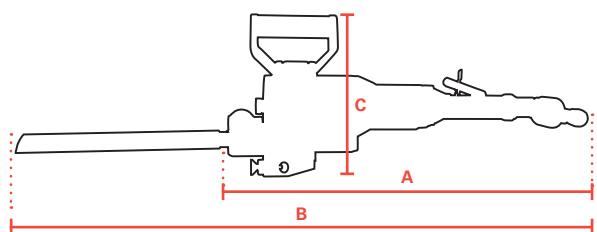


SWIVEL JOINT FOR THE RRJ-8205 & RRJ-8210

Description	Order number
Universal Swivel Joint 1/4"	922A18

DIMENSIONS

Type	A mm	B mm	C mm	D mm
RRJ-8205	367	65	-	-
RRJ-8210	365	80	-	-
RRI-8460	460	537	240	-
RRI-8560	340	650	20	200



ENGRAVING PEN



RRI-9010

Type	Brand	Needle diameter mm	Strokes p/min	Air cons. l/sec	Weight kg	Inletthread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-9010	RRI	1,7	36.000	0,5	0,25	R 1/4"	4	0,7	62

ACCESSORIES

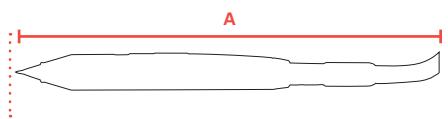
FOR RRI-9010

DIMENSIONS

Accessory	Order number
Engraving needle, fine	2-01-011-90
Engraving needle, medium	2-01-011-91
Engraving needle, coarse	2-01-011-92

* Supplied as standard

Type	A mm	B mm
RRI-9010	160	-



POWERCUTTERS

Cutting and Pressing



..... Cutting here will cause damage to the blade!
 Caution
 Only cut your piece of work in this area of the blade.
 Do not twist the tool when cutting!



RRI-8002



RRI-8011



RRI-8003



RRI-8031



RRI-8004



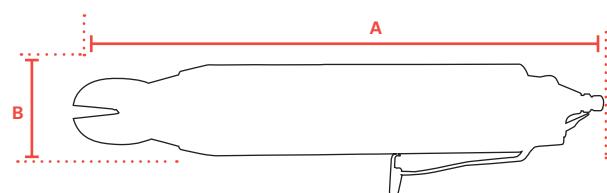
RRI-8032

Type	Brand	Capacity copper mm	Capacity steel* mm	Capacity plastics mm	Capacity crimping mm	Power midway on blade kg	Air cons. l/stroke	Weight kg**	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-8002	RRI	1	0,5	-	-	40	0,064	0,13	PT 1/4"	6,5	0,2	71
RRI-8003	RRI	1,6	1	4	-	60	0,116	0,20	PT 1/4"	6,5	0,4	72
RRI-8004	RRI	2,6	2	7	-	140	0,23	0,34	PT 1/4"	6,5	0,3	73
RRI-8011	RRI	3,3	2,8	10	2	280	0,584	0,52	PT 1/4"	6,5	1	76
RRI-8031	RRI	4,8	4	13	5,5	450	0,956	0,83	PT 1/4"	6,5	1	75
RRI-8032	RRI	7	6	-	-	790	2,7	2	PT 1/4"	6,5	1,5	78

* Steel FE 370 / **Without blades (power cutters are supplied without blade, for blades see the next page) / Working pressure 0,4-0,5 MPa

DIMENSIONS

Type	A mm	B mm
RRI-8002	30	104
RRI-8003	36	124
RRI-8004	45	156
RRI-8011	56	192
RRI-8031	56	280
RRI-8032	75	390



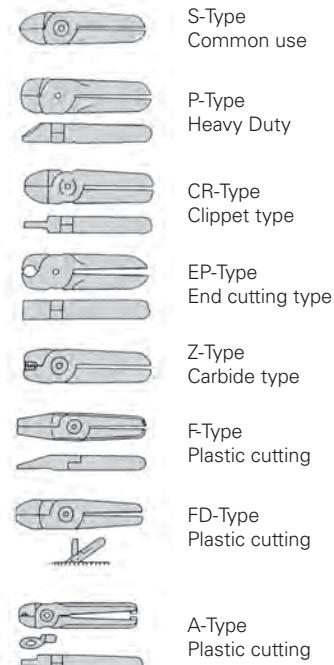
POWERCUTTERS

Accessories: Blades



CUTTING CAPACITY OF THE BLADES

Type	Copper mm	steel FE 370 mm	Piano-wire mm	Plastics mm	Crimping mm	Blade type
RRI-8002	1	0,5	-	-	-	S-26
RRI-8003	1,6	1	-	-	-	S-4
	1,6	1	0,5	-	-	Z-4
	-	-	-	4	-	F-3
RRI-8004	2,6	2	-	-	-	P-6, CR-6, EP-6, S-5
	2,6	2	1	-	-	Z-6 (carbide tip)
	-	-	-	7	-	F-5, FD-5
RRI-8011	3,3	2,8	-	-	-	P-8P, CR-8P, EP-10P, S-7P
	3,3	2,8	1,2	-	-	Z-8P (carbide tip), ZCR-8P
	-	-	-	10	-	F-9P, FD-9P
	-	-	-	-	2	A-8P
RRI-8031	4,8	4	-	-	-	P-8P, ZCR-8P, CR-8P, EP-10P, S-7P
	-	-	-	13	-	F-9P, FD-9P
	-	-	-	-	5,5	A-8P
RRI-8032	7	6	-	-	-	P-120R23, CR-120



Power cutters are supplied without blade, please order separately from the list above.

TIP DRESSERS & HOG RINGERS



YNR-8F

YHR-33L

TIP DRESSERS

Type	Brand	Tip capacity mm	RPM	Rotation L/R	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
YNR-8F*	YOKOTA	16	1.400	right	6,7	1,2	PT 1/4"	9,5	< 2,5	5

* Hand model

Blades for tip dressers are separately available and will be custom made on tip specifications. On request we can supply you with detailed information.

HOG RINGERS

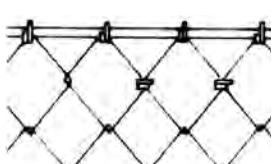
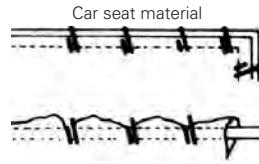
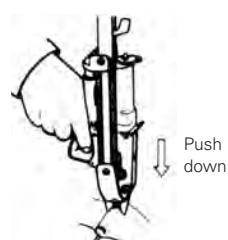
Type	Brand	Max. number of rings	Ring size mm	Trigger-pressure kg	Stroke trigger mm	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
YHR-33	YOKOTA	120	8	0,6	7	0,8	1,5	PT 1/4"	6	1,66	79
YHR-33L*	YOKOTA	120	8	0,6	7	0,8	1,5	PT 1/4"	6	1,66	79

* Extended nose

FUNCTIONING OF THE YHR-33(L)

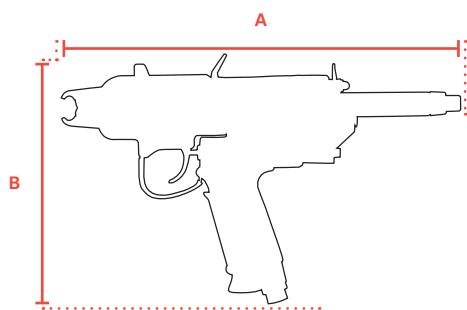
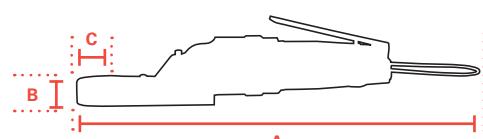


Pull the trigger and clamp. The work is completed when the trigger is released.



DIMENSIONS

Type	A mm	B mm	B* mm	C mm
YNR-8F	257	19,5	-	24
YHR-33	346	188	-	-
YHR-33L	361	188	-	-



DOWELL PIN PULLERS



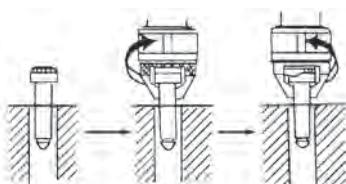
YDP-13



YDP-20

Type	Brand	Capacity pin mm	Stroke mm	Blows min ⁻¹	Air cons. l/s	Weight kg	Inlet-thread	Hose diameter mm
YDP-13	YOKOTA	13	30 x 25	5.000	3,3	1,35	PT 1/4"	6,5
YDP-20	YOKOTA	20	36 x 33	2.700	4,3	2,10	PT 1/4"	6,5

PULLING & HAMMERING OPERATION



PULLING OPERATION

- Screw hanger bolt to threaded pin.
- Fit dowel pin to guide hole.
- Lock hanger bolt.
- Operate the tool and pull.



HAMMERING OPERATION

- Screw hanger bolt to threaded pin.
- Fit dowel pin to guide hole.
- Place the tool reversed on dowel pin.
- Operate the tool to hammer dowel pin.



ACCESSORIES

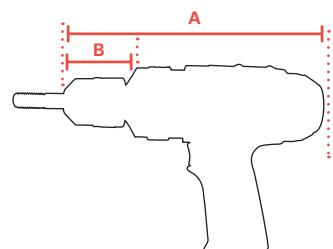
Hanger bolts for YDP-13	Order number
M8 x 29L	6502-0022-00-01
M6 x 23L	6502-0022-00-02
M5 x 21L	6502-0022-00-03
M4 x 21L	6502-0022-00-04
M8 x 50L	6502-0022-00-05
M8 x 100L	6502-0022-00-06
M8 x 150L	6502-0022-00-07
M8 x 200L	6502-0022-00-08
M6 x 50L	6502-0022-00-09 *
M6 x 100L	6502-0022-00-10
M6 x 150L	6502-0022-00-11
M6 x 200L	6502-0022-00-12
M5 x 50L	6502-0022-00-13 *
M5 x 100L	6502-0022-00-14
M5 x 150L	6502-0022-00-15
M5 x 200L	6502-0022-00-16
M4 x 50L	6502-0022-00-17 *
M4 x 100L	6502-0022-00-18
M4 x 150L	6502-0022-00-19
M4 x 200L	6502-0022-00-20

Hanger bolts for YDP-20	Order number
M12 x 36L	6503-0022-00-01
M10 x 33L	6503-0022-00-02
M8 x 32L	6503-0022-00-03
M8 x 100L	6503-0022-00-04
M8 x 150L	6503-0022-00-05
M8 x 200L	6503-0022-00-06
M10 x 100L	6503-0022-00-07
M10 x 150L	6503-0022-00-08
M10 x 200L	6503-0022-00-09
M12 x 100L	6503-0022-00-10
M12 x 150L	6503-0022-00-11
M12 x 200L	6503-0022-00-12
M8 x 50L	6503-0022-00-13 *
M10 x 50L	6503-0022-00-14 *
M12 x 50L	6503-0022-00-15 *
M6 x 50L	6503-0022-00-16

L = Length

* Supplied as standard

DIMENSIONS



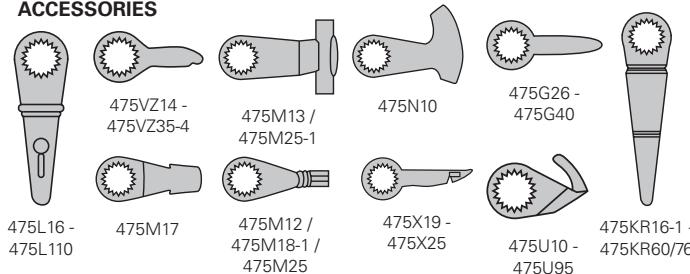
Type	A mm	B mm
YDP-13	162	75
YDP-20	195	82

MULTI-CUTTER


TYPE RR-476 CAN BE USED AS:

- Saw (with sawblade)
- For cutting
- Urethane-bonded windows (with various blades)
- As a sander (with triangle sanding pad)

Type	Brand	Sawing capacity mm	Movements p/min	Air cons. l/stroke	Weight kg	Inlet-thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RR-476	RR	1	0 - 22.000	6,5	1,1	PT 1/4"	6,5	2,6	90

ACCESSORIES


Order number	Type	Dimension
475KR16-1	639-03-133-014	16 mm
475KR16/35	639-03-143-013	16/35 mm
475KR18/39	639-03-170-014	18/39 mm
475KR32/42	639-03-195-010	32/46 mm
475KR39	639-03-152-018	39 mm
475KR42/60	639-03-182-015	42/60 mm
475K45	639-03-072-017	45 mm
475KR60/76	639-03-169-012	60/72 mm

WINDOW CUTTER

Order number	Type	Dimension
475L16	639-03-122-011	16 mm
475LR16	639-03-099-010	16 mm
475L23	639-03-173-010	23 mm
475L25	639-03-124-013	25 mm
475L27	639-03-174-018	27 mm
475L45	639-03-168-018	45 mm
475LR54	639-03-160-015	54 mm
475LR58	639-03-097-018	58 mm
475L55	639-03-123-015	55/32 mm
475L80	639-03-171-013	80/70 mm
475L85	639-03-081-013	85/60 mm
475L85-1	639-03-125-017	85/70 mm
475L110	639-03-194-016	110 mm

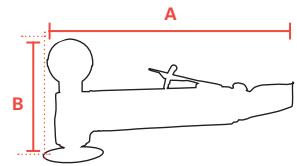
475VZ14	639-03-120-019	14 mm
475VZ35	639-03-103-017	35 mm
475VZ35-1	639-03-104-015	35 mm
475VZ35-2	639-03-109-018	35 mm
475VZ35-3	639-03-164-019	35 mm
475VZ35-4	639-03-172-016	35 mm

475M12	639-03-129-050	12 mm
475M13	639-03-113-016	13 mm
475M17	639-03-144-011	17 mm
475M18-1	639-03-146-018	18 mm
475M25	639-03-105-019	25 mm
475M25-1	639-03-131-017	25 mm

475N10	639-03-132-010	-
475X19	639-03-208-010	19 mm
475X24	639-03-153-012	24 mm
475X25	639-03-207-012	25,4 mm
475G26	639-03-121-018	56/26 mm
475G35	639-03-073-011	56/35 mm
475G40	639-03-176-015	74/40 mm

Type	Order number	Type	Dimension
Sawblade	475101	635-02-102-016	ø 63 mm - Staal 1 mm
Sawblade	475801	635-02-103-010	ø 80 mm - HSS
Sanding paper	475380	637-17-083-043	Korrel 80
Sanding paper	4753150	637-17-087-042	Korrel 150
Sanding paper	4753240	637-17-090-046	Korrel 240
Pad	476/TP	-	3-hoekig

Type	A mm	B mm
RR-476	195	79



BARREL & SUMP PUMPS



YPP-1

YP-18

YP-35

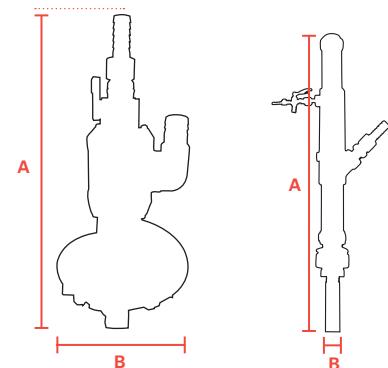
Type	Brand	Description	Max. capacity	Max. capacity m	Air-cons.	Weight kg	Air hose Ø mm	Outlet hose Ø mm	Air return hose Ø mm
YPP-1 *	YOKOTA	Barrel pump	65 l/min	40	7,5	8,8	10	19	-
YP-18	YOKOTA	Bronze sump pump	55 t/h	25	33	19	19	65	25
YP-35	YOKOTA	Bronze sump pump	80 t/h	41	73	32	25	65	38

* YPP-1: Connection thread PT 1 1/2" / Inlet thread PT 1/4" / Outlet thread PT 3/4"

DIMENSIONS

Teflon packing for the YPP-1	Order number
Piston packing	7003-1009-11-11
Case packing	7003-1014-11-11
Fa-packing 48 x 54 x 1,5	8010-3015-11-11
O-ring P-35	9010-1026-11-11

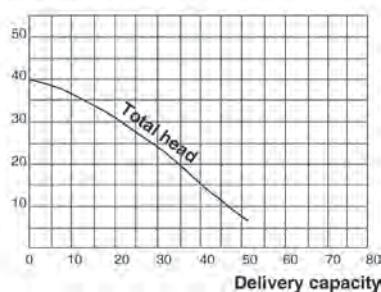
Type	A mm	B mm	C mm
YPP-1	606	68	-
YP-18	525	189	250
YP-35	550	270	320



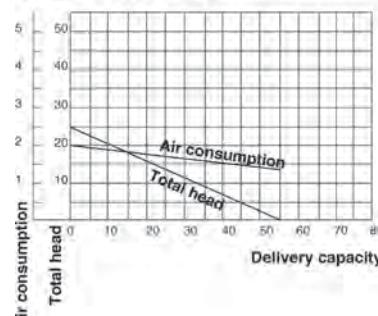
PERFORMANCE CURVE

Type YPP-1 has been developed for pumping liquids from drums. The pump fits on standard oil-drums with a normal 1 1/2" pipe thread opening. The models YP-18 and YP-35 are made of bronze and are suitable to pump aggressive liquids and acids. For a full overview please contact us.

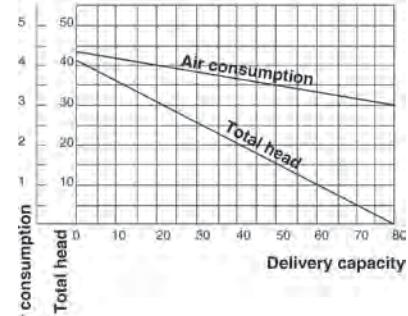
Performance curve YPP-1



Performance curve YP-18



Performance curve YP-35



CAULKING GUN



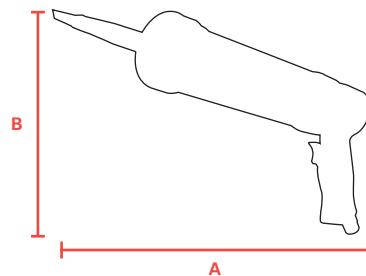
RRP-203

Type	Brand	Tube Ø x mm	Working pressure bar	Weight kg	Inlet- thread	Hose diameter mm
RRP-203	RR	Ø 50 x 215 (for 400 ml) *	2-4	1,1	PT 1/4"	6,5

*The Red Rooster caulking gun is suitable for 400 ml cartridges

DIMENSIONS

Type	A mm	B mm
RRP-203	268	135





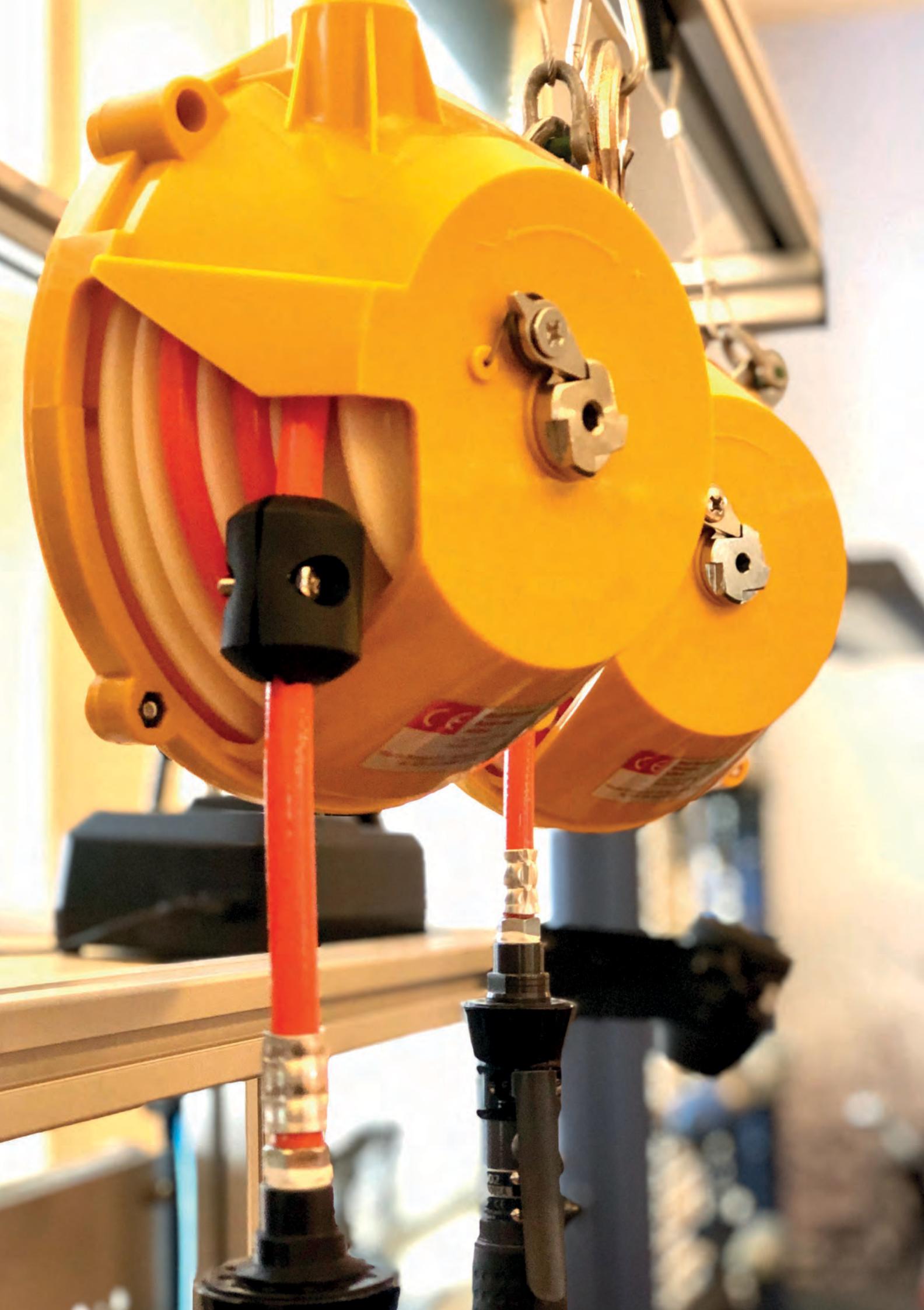
RED
ROOSTER

GO GO

ACCESSORIES







ACCESSORIES

The proper choice of tools is not the only element to take into consideration when you aim to improve productivity. Accessories that enable an operator more flexibility and avoid physical burden, can make a big difference and will increase the operators efficiency as well as decrease the occurrence of injuries. When an operator is supported through the use of a balancer, it is possible to work for longer hours with less stress. Moving around the workplace through the use of spiral hoses and swivel joints increase flexibility while the use of the right lubricant avoids premature maintenance and risk of costly failures. Rami Yokota can assist you in choosing the adequate accessories that suit your tools and workplace. Resulting in less downtime on the production line and more safety and satisfaction among employees.

BALANCERS

Types

BALANCERS

Type	Brand	Capacity kg	Cable length m	Weight kg
RRI-9001/1	RRI	0,5 - 1,5	2	0,5
RRI-9003/1	RRI	1 - 3	2	0,7
RRI-9005/1	RRI	2,5 - 5	2	0,9
EK-0	RRI	0,5 - 1,5	1	0,5
TW-3	RRI	1 - 3	1,3	1,4
TW-5	RRI	2,5 - 5	1,3	1,5
TW-9	RRI	4,5 - 9	1,3	3,4
TW-15	RRI	9 - 15	1,3	3,8
TW-22	RRI	15 - 22	1,5	7,2
TW-30	RRI	22 - 30	1,5	7,6
TW-40	RRI	30 - 40	1,5	9,8
TW-50	RRI	40 - 50	1,5	10,4
TW-60	RRI	50 - 60	1,5	11,6
TW-70	RRI	60 - 70	1,5	11,8
ETP-14	RRI	120 - 140	1,2	24,1
ETP-15	RRI	140 - 170	1,2	28,7
ETP-16	RRI	170 - 200	1,2	29,7

SPRINGBALANCERS: HOSE REEL WITH INTEGRATED CABLE

dia. mm
cols. /min

HTB-0	RRI	0,5 - 1,5	1,3	1,58	6,5	700	PT 1/4"
HTB-1	RRI	1,5 - 3	1,3	1,66	6,5	700	PT 1/4"
HTB-2	RRI	3 - 5	1,3	1,73	6,5	700	PT 1/4"

SPRINGBALANCERS: LONG STROKE

卷之三

ELF-3	RRI	1,5 - 3	2,5	4,1
ELF-5	RRI	3 - 5	2,5	4,2
ELF-9	RRI	5 - 9	2,5	4,7
ELF-15	RRI	9 - 15	2,5	10
ELF-22	RRI	15 - 22	2,5	10,2
ELF-30	RRI	22 - 30	2,5	11
ELF-40	RRI	30 - 40	2,5	14
ELF-50	RRI	40 - 50	2,5	14,5
ELF-60	RRI	50 - 60	2,5	17
ELF-70	RRI	60 - 70	2,5	18

EXTRA SAFETY

DIMENSIONS

The models ELP and LW from LW-9 upwards have a safety mechanism which activates in case of spring breakage.



HTB-0

TW-5 TW3

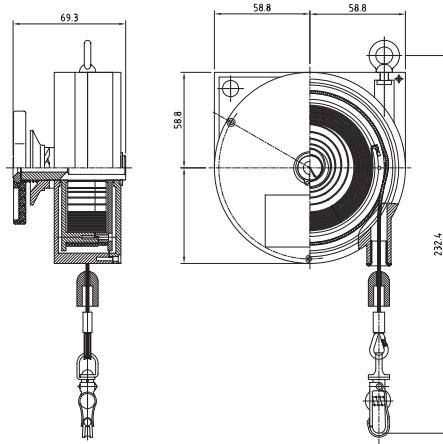
RRI-9003/1

EKO

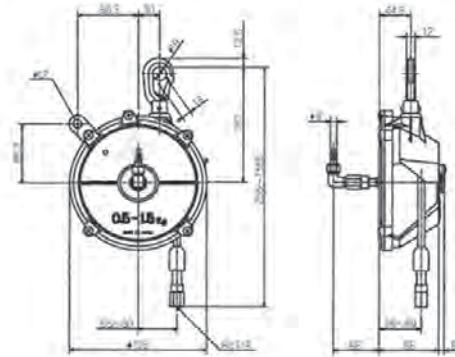
Is it still splitting balances off our website.

BALANCERS

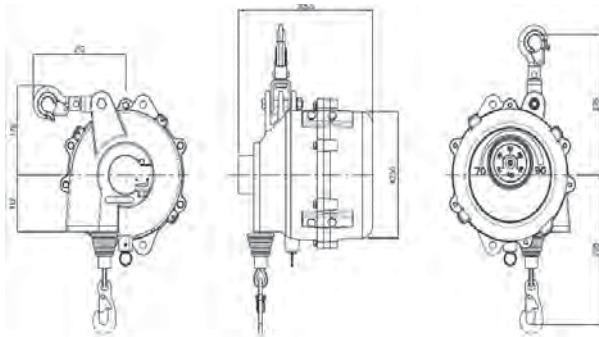
Dimensions



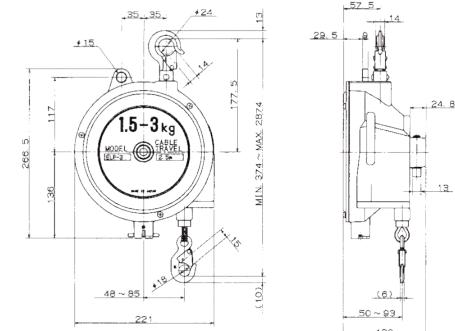
RRI-9001/1



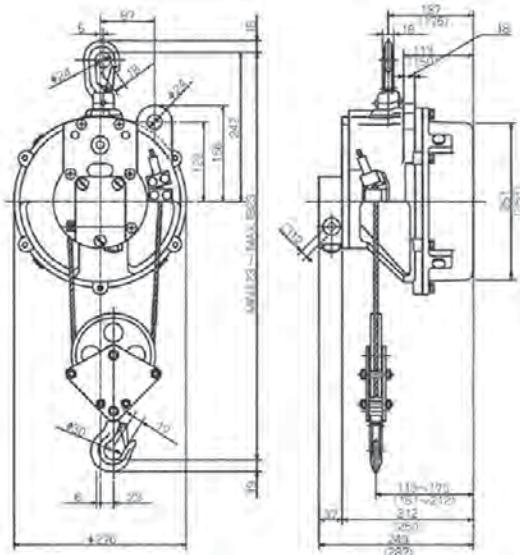
HTB-0 HTB-1 HTB-2



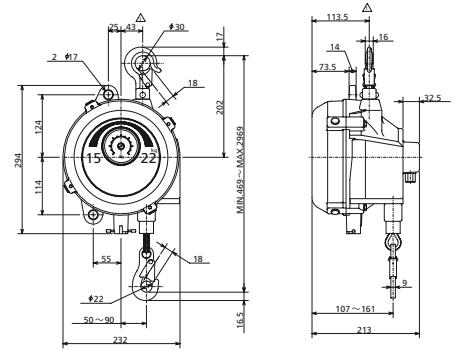
TW-3 t/m 70



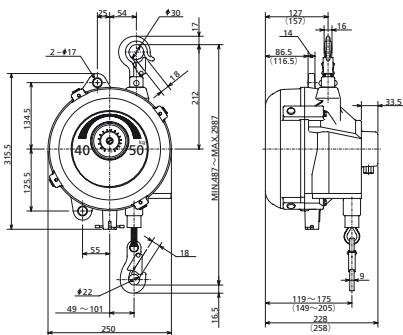
ELF-3 ELF-5 ELF-9



ETP-14_15_16



ELF-15 ELF-22 ELF-30



ELF-40 ELF-50 ELF-60 ELF-70

BLOW GUNS



RRI-21930



VMG11W-F02

Type	Brand	Air cons. l/sec	Weight kg	Inlet-thread	Hose diameter mm
RRI-21930	RRI	5	0,2	PT 1/4"	6,5
VMG11W-F02	SMC	1-6 *	0,2	PT 1/4"	6,5

* Depending on nozzle size, to be ordered separately, see below.

ACCESSORIES
FOR VMG11WF02

Accessory	Order number
Nozzle Ø 1 mm	KN-R02-100
Nozzle Ø 1,5 mm	KN-R02-150
Nozzle Ø 2 mm	KN-R02-200
Nozzle Ø 2,5 mm	KN-R02-250

DIMENSIONS

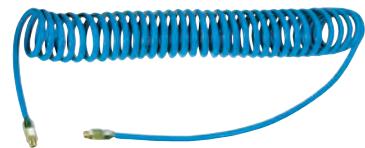
Type	A mm	B mm
VMG	140	164
RRI 21930	80	250

POLYURETHANE SPIRAL AIR HOSES

Type	Brand	Working length m	Total length m	Inside diameter mm	Outside diameter mm	Joint connection
PT-02510SJ	RR	2	2,5	6,5	9,5	1/4"
PT-02525SJ	RR	4	5	6,5	9,5	1/4"
PT-02550SJ	RR	9	10	6,5	9,5	1/4"
PT-03525SJ	RR	4	5	8	12	1/4"
PT-03550SJ	RR	9	10	8	12	1/4"
PT-04525SJ	RR	4,2	4,7	9,5	13,5	3/8"
PT-04550SJ	RR	9	10	9,5	13,5	3/8"

FEATURES

- Both ends executed with universal swivel-joints
- Provided with straight ends of 10 and 50 cm
- Increased flexibility, no kinks after bending
- Max. pressure 8 bar
- Oil and petrol resistant
- Temperature -20°C. up to +60°C
- Swivel executed with ballbearings
- Can be used in combination with balancers



Polyurethane air hoses



OIL, REGULATOR, SWIVEL JOINT

Oil

ATLUB is the perfect lubricant especially developed to meet the lubrication requirements of pneumatic tools. ATLUB is based on a water soluble synthetic lubricant, containing a well balanced choice of additives to obtain the following properties:

- Very good protection against wear, corrosion and oxidation
- No forming of ice in pneumatic tools and machinery
- A good protection against deposit in the pneumatic system
- Good cleaning properties
- Compatibility with seal and gaskets made from synthetic material

ATLUB can be used in an air-line or microfog lubricator for lubrication of hammers, pile-drivers drills, grinders, pumps, hoists, clamps and vices. ATLUB will not mix with other mineral oils.

With ATLUB as the lubricant it is possible to work at very low temperatures, even at - 25°C, without freezing of the pneumatic system.



Regulator

FEATURES

- Can be easily inserted in the inlet of any air tool
- Reduces the flow of air and the power speed of the air tool



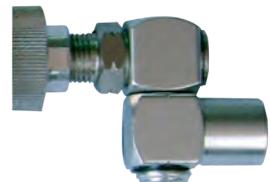
8130-1001-00-00

Type	Brand	Description	Inlet-thread
8130-1001-00-00	Yokota	Regulator	PT 1/8"
8130-1002-00-00	Yokota	Regulator	PT 1/4"
8130-1003-00-00	Yokota	10 step regulator	PT 1/4"

Universal swivel joint

FEATURES

- Optimal ergonomics
- Swivels in all directions
- Increases flexibility of air tool use

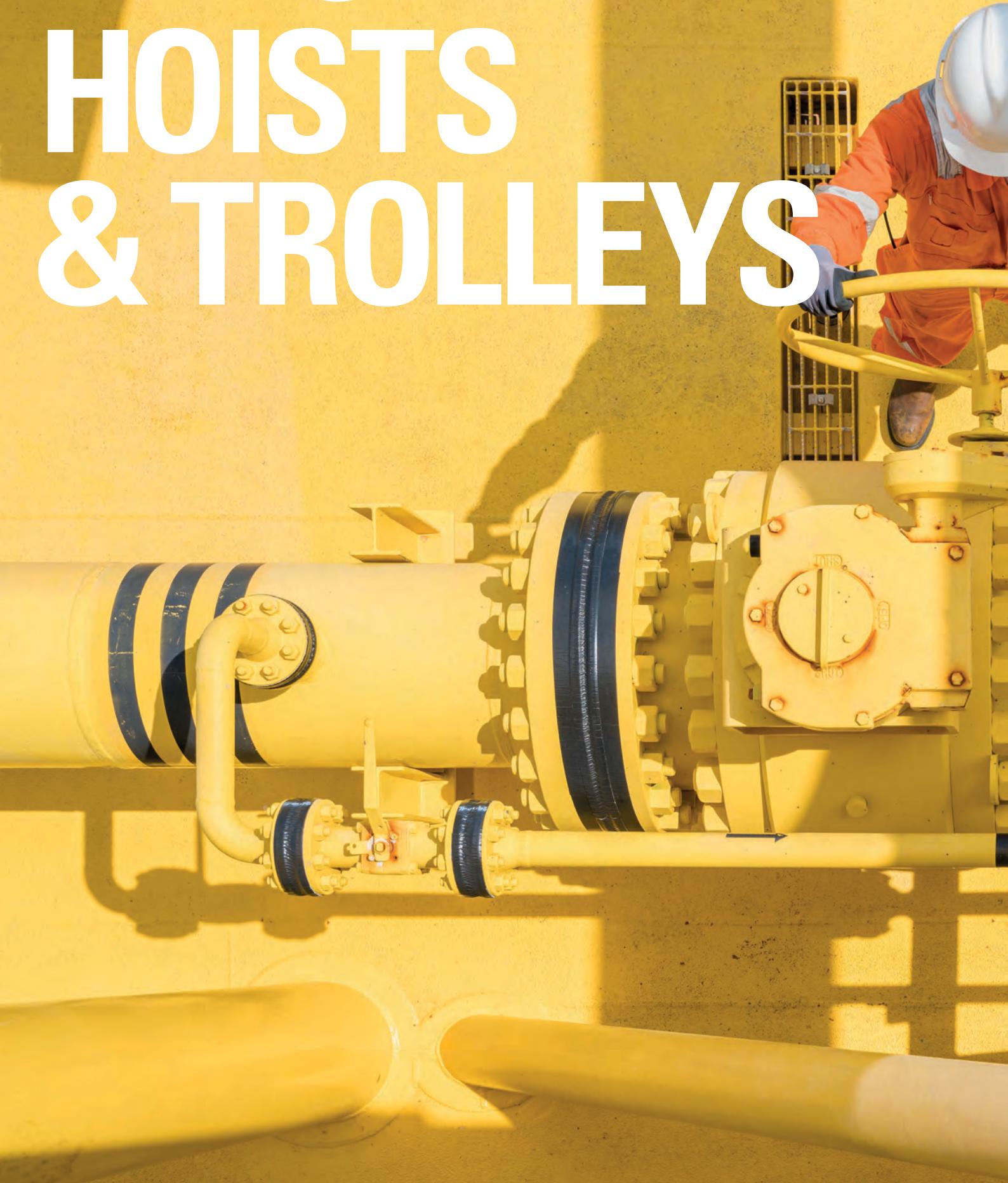


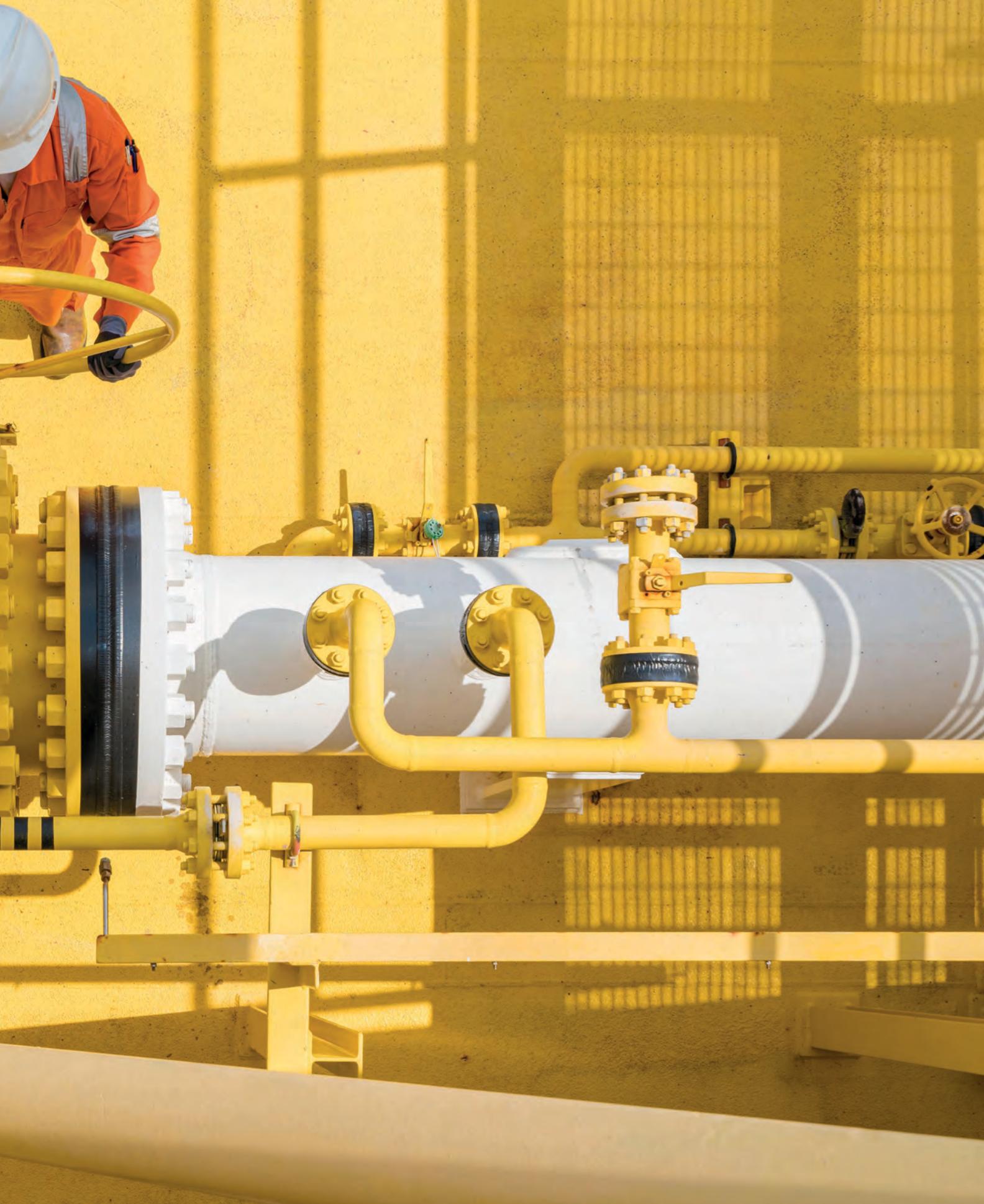
Type	Order number
Universal Swivel Joint 1/4"	922A18
Universal Swivel Joint 3/8"	933A19
Universal Swivel Joint 1/2"	944A

Type	Brand	Description	Litre
ATLUB	RR	Lubricating oil	1
NOBP	YOKOTA	Oil for YOKOTA impulse wrenches	1
01-0508	RR	Oil for RED ROOSTER impulse wrenches	0,1
01-0508C	RR	Oil for RED ROOSTER impulse wrenches RRI-200(T)	0,1
01-0507	RR	Oil for RED ROOSTER impulse wrenches	1
01-0507C	RRI	Oil for RED ROOSTER impulse wrenches RRI-200(T)	1
Innotec-1101	Nutriflon	Oil for food industry	5



AIR CHAIN HOISTS & TROLLEYS



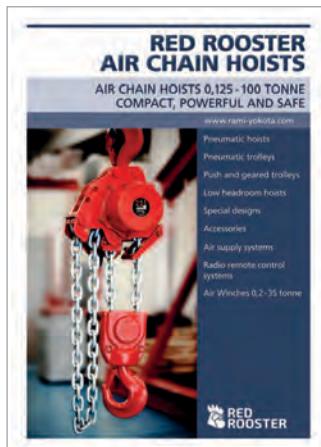




AIR CHAIN HOISTS & TROLLEYS

Red Rooster specializes in the sale, rental and repair of air powered hoists, trolleys and winches. Our pneumatic hoists with safe working loads range from 125kg to 100 tonne and are conform to the EC Machinery Directive and the European Standard for hoists BS EN 14492-2. All of our hoist parts are manufactured in Japan and Europe, controlled under the ISO 9001:2008 quality control system. Our lifting equipment can be used in industries such as the (offshore) oil and gas industry, assembly lines, power plants, refineries, chemical plants, mechanical engineering, shipyards, foundries, oil storage and many others.

BROCHURE

**RED ROOSTER
AIR CHAIN HOISTS**


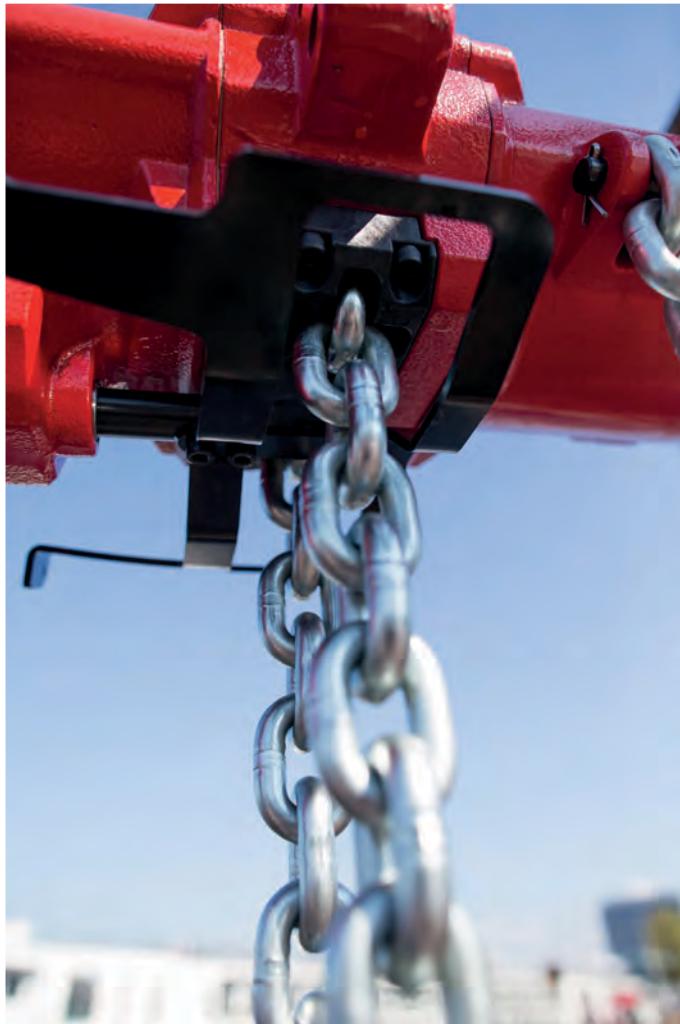
For a complete overview of the Red Rooster Air Chain Hoists & Trolleys ask for the special brochure Red Rooster AIR CHAIN HOISTS or visit our website: www.rami-yokota.com

ATEX

 The Red Rooster ATEX classified, spark resistant air chain hoists, are suitable for use in explosion-prone areas. Air does not generate sparks and an air chain hoist can be used continuously without the danger of overheating, in contrast to electric hoists and the danger of using electricity in highly flammable or explosive environments.

AIR CHAIN HOISTS

Overview



PNEUMATIC HOISTS

The Red Rooster TMM, TCR, TCS and TMH series pneumatic hoists offer a comprehensive range of hoists suited for all types of industrial and marine environments. For use in areas where there is a risk of explosion due to flammable gases or dust, we can offer a range of ATEX classifications to suit your requirements. With safety the number one priority, Red Rooster hoists have been used and tested for the past 25 years. Where engineers and operators require a hoist fit for purpose, easily controlled and maintained, with readily available spare parts, you'll find Red Rooster hoists. We have the perfect lifting solution for where the duty is high, or where a robust hoist is required to withstand harsh conditions. As standard, Red Rooster hoists are able to work within a temperature range of -10°C to +70°C, with some slight modifications suitable to use at -20°C.

FEATURES

- TOKU high quality vane motor and planetary gearbox with long life grease
- Overload protection
- High strength cast steel housing for durability
- Compact and lightweight for easy handling
- Extended duty cycles and frequent reversals
- Variable speed for raising and lowering accurately
- Alloy steel hooks with safety catches (Bottom hook fitted with thrust bearing for easy operation)
- Adjustable load limiter (Not for TMM, TCR Mini or TCS)
- Failsafe automatic disk brake (fully enclosed) ensures the load cannot fall if power is lost
- Emergency stop
- Mechanical upper and lower hoist limits
- Lifting heights to meet your need
- Choice of cord, pendant control or control systems
- Low noise level down to 80 dB (Silencer and filter easily changed)
- Low air consumption (TCR and TMH model)
- Air pressure from 4,5 to 6 Bar (7 Bar maximum)
- Durable in harsh environments
- Self cooling air motor with the exhaust over the motor
- Low maintenance
- Easily available spares at the right conditions
- Hoist body manufactured in Japan, all other parts in Europe
- High quality calibrated load chain of European/Japanese manufacture with 5:1 FOS
- High speed (TCS model)
- Ex classification to EC directive 94/9/EC (ATEX models)
- Various paint specifications and colours

TROLLEYS & OPTIONAL FEATURES

Overview



TROLLEYS

The Red Rooster range of trolleys is designed to match our range of pneumatic hoists, with capacities from 250 kg to 50 tonne, but they are easily adapted to be used with other manufacturers hoists. The trolleys are designed to work on a wide range of beam sizes and beam types, with parallel or tapered flanges. The trolley can either have a lifting lug to hook in the hoist or be built in using a link plate. The versatile design and interchangeable parts can be used on a range of geared, low headroom, articulated and overhead crane units.

Besides pneumatic trolleys we also offer geared and push trolleys.

OPTIONAL FEATURES

- (Ultra) and low headroom
- Marine Specification/Corrosion resistant
- Paint systems from C2 - Industrial to C5 - Offshore specification (Red finish as standard. Other RAL colours available on request)
- Choice of pendants/control systems
- Radio control pendant for electro pneumatic controls
- Chain collectors (PVC, galvanised or stainless steel)
- Various types of hook or clevis available
- Air supply systems and valves
- Piped away exhaust air
- In house design for "specials"
- Festoon systems
- Main air shut off valve



Festoon system

AIR CHAIN HOISTS

TCR, TCS, TMH Series

COMPACT HOISTS FOR "MATERIAL-HANDLING"

The Red Rooster compact hoists are suitable for "material-handling". The pendant control is positioned directly on the lower hook, so the operator can control and position the load easily with one hand. The perfect solution for horizontal movements is to combine the hoist with a push trolley.

MINI AIR CHAIN HOISTS LIGHT, STRONG & COMPACT

The Red Rooster mini air chain hoists are suitable for industrial use and material handling. Due to their low weight these hoists are also very suitable for service applications.

TCS HIGH SPEED AIR CHAIN HOISTS

These series Red Rooster air chain hoists are especially developed for the material handling industry such as warehousing and packaging. These hoists have very high lifting and lowering speeds and are therefore suitable for applications with long lifting heights.

AIR CHAIN HOISTS TCR SERIES 0,25 - 2 TONNE

These Red Rooster air chain hoists are especially developed for heavy industrial use. With a robust cast steel body and load limiter.



TMM-140AE

TCR-250ME

TMH SERIES AIR CHAIN HOISTS 3 - 100 TONNE

The new Red Rooster TMH series air chain hoists have the highest lifting speed and lowest headroom on the market.

Capacity kg	Lifting speed full load m/min	Lowering speed full load m/min	Lifting speed without load m/min	Lowering speed without load m/min	Number of chain falls	Air consumption full load l/s
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COMPACT HOIST FOR - „MATERIAL-HANDLING“

TMM-140AE	140	12,5	20,1	20,2	17	1 (cable)	10,5
TCR-250ME	250	8	16,5	16,7	12,4	1	11,7

RED ROOSTER MINI AIR CHAIN HOISTS

TCR-125C /DPE	125	14 / 12,8	16 / 14,8	19 / 17,2	13	1	13,3
TCR-250C /DPE	250	9,5 / 8,1	17 / 15,9	19 / 17,2	13	1	13,3
TCR-500/C2 / DPE	500	4,8 / 4	8 / 6,5	9,5 / 8,6	6,5	2	13,3

TCS AIR CHAIN HOISTS HIGH SPEED

TCS-500 C/PE	500	17	34	33	19	1	28,3
TCS-980/2 C/PE	980	8,5	17	16,5	9,5	2	28,3

RED ROOSTER AIR CHAIN HOISTS TCR SERIES 0,25 - 6 TONNES

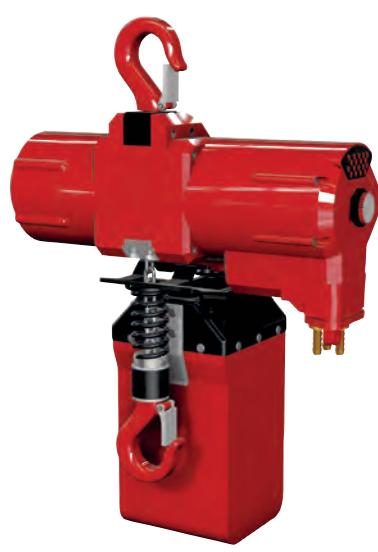
TCR-600250 C/P	250	10	16	19	13	1	23,3
TCR-500 C/P	500	10	16	19	13	1	23,3
TCR-1000/2 C/P	1000	8	8	9,5	6,5	2	23,3
TCR-1000 C/P	1000	5,8	4,3	10,5	6,5	1	23,3
TCR-2000/2 C/P	2000	2,9	4,7	5,3	3,3	2	23,3

NEW RED ROOSTER TMH SERIES AIR CHAIN HOISTS: "The highest lifting speed with the lowest headroom on the hoist market"

TMH-3000 C/PE	3000	5,4	10,5	10,7	6,4	1	58,3
TMH-6000 C/PE	6000	2,8	5,1	5,4	3,6	2	58,3
TMH-10 C/PE	10.000	1,6	3,2	3,3	1,9	2	58,3
TMH-25	25.000	1,4	3	2,7	2	2	108

Technical specifications at 0,63 MPa (dynamic airpressure at 6,3 Bar) | Please contact us for all hoists above 30 TONNE

AIR CHAIN HOISTS



TCS-500



TMH-3000



TMH-25

Inlet thread	Hose diameter mm	Weight kg incl. 3 m lift	Chain weight kg per meter lift	Load limiter	Air trolley	4-button pendant with emergency stop (42-02-35-VRD)	Chain size mm	Chain bag/chain bucket
PT 3/8"	13	10	-	-	+	-	4 mm staalkabel	-
PT 3/8"	13	11	0,35	-	+	-	4x12	*
PT 3/8"	13	7 / 8,6	0,35	-	+	+	4x12	+
PT 3/8"	13	7 / 8,6	0,35	-	+	+	4x12	+
PT 3/8"	13	8,5	0,7	-	+	+	4x12	+
PT 1/2"	13	15,9	0,9	-	+	+	6,3x19,1	+
PT 1/2"	13	16,8	1,8	-	+	+	6,3x19,1	+
PT 1/2"	13	31	0,9	*	+	+	6,3x19,1	+
PT 1/2"	13	31	0,9	*	+	+	6,3x19,1	+
PT 1/2"	13	34	1,8	*	+	+	6,3x19,1	+
PT 1/2"	13	35	1,1	*	+	+	7,1x21	+
PT 1/2"	13	40	2,2	*	+	+	7,1x21	+
PT 1"	19	99	3,8	*	+	+	13x36	+
PT 1"	19	103	7,6	*	+	+	13x36	+
PT 1"	25,4	206	11,4	*	+	+	16x45	+
PT 1½"	38	581	24,2	*	*	*	23,5 x 66	+

* = standard integrated / + = optional / - = not available

AIR TROLLEYS

Standard and special versions

Standard air trolley



Ultra low head



Ultra low head articulated



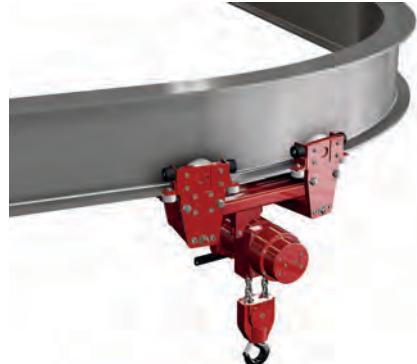
Air trolley with beam brake



Air trolley extended frame



Air trolley articulated



Red Rooster offers a complete program of pneumatic trolleys. From the most simple versions where the upper hook of the hoist is replaced by a link plate to mount on the trolley, to low headroom trolleys where minimum space only allows for minimum building height. Whether the use is industrial, shipping or off-shore, Red Rooster can offer you a fitting solution.

With our team of designers and production facilities, semi-standard solutions supplement a large variety of custom-made units that incorporate your requirements.

Big bag handling, ultra low headroom, articulated trolleys and different sizes of beams belong to the wide range of possibilities. Even complete BOP handling units are developed and manufactured on demand. Options such as pneumatic trolleys with rack and pinion and beam brake are also available.

For more details and a full overview of all possibilities please refer to our full catalogue of air chain hoists and trolleys (available languages; English, German, French, Polish and Spanish).



AIR TREATMENT EQUIPMENT





16:03

AIR TREATMENT EQUIPMENT



COMBINATION SETS

Air treatment combination sets can consist of and AF (filter) + AR (regulator) + AL (lubricator) or AW (filter/regulator) + AL (lubricator).

PAGE 146



REGULATORS

SMC regulators guarantee a constant secondary pressure, even when the in port pressure or pressure in general, fluctuates.

PAGE 149



FILTERS

The SMC filters allow for an exceptionally large air flow and a high grade of filtration. The filters guarantee an adequate level of air quality, due to the separation of condensate by their centrifugal working, and the filtration of polluted particles.

PAGE 148-149



LUBRICATORS

For precise lubrication of machine components. From series 3.000 oil can be filled under pressure. Easy and accurate adjustment. Lubricates with minimal airflow.

PAGE 150-151

WATER SEPARATORS & BOOSTERS

With the SMC AMG water separators you can easily and cheaply remove 99% of all water from your compressed air. These compact and light weight water separators are available with port sizes from 1/8" up to 2". They are suitable for compressors from 1-75kW and are standard equipped with automatic drain for long term jobs. SMC boosters can increase pressure by 4 times without separate energy supply and without additional cooling.

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REFRIGERATED AIR DRYERS

The SMC refrigerated air dryer series IDFA removes humidity from your compressed air system, thereby extending the life span of all of your airtools.

PAGE 154-155

AIR TREATMENT EQUIPMENT

Low quality of your compressed air can lead to costly malfunctioning of your tools and your production process. It will also increase maintenance costs, decrease the lifetime of your tools and lead to larger expenditure in general. Investing in air quality will pay off. Sufficient air and air quality are paramount to a trouble-free production process. SMC pneumatics is the worlds largest manufacturer of pneumatic components and compressed air treatment equipment. SMC products are known for their high unquestionable quality and will ensure a long lifetime for all of your air tools and air hoists.



AIR QUALITY

Good air quality is crucial for the trouble-free use of your tools. When your system consists of clean and dry air, the lifetime of your tools will greatly increase. This leads to more sustainability and also to a reduction of costs.

LOW PRESSURE MAY OCCUR IF:

- The compressor capacity is insufficient
- The air piping has been pitched incorrectly
- There is air leakage
- The air treatment equipment is incorrectly pitched, not functioning properly
- The wrong hose size, nipples or quick couplers are applied
- The tank is too small

SUFFICIENT AIR

In order to ensure the proper functioning of your tools the air pressure needs to be just right. If the pressure is too low the tool will show less performance and less precision, resulting in slow starting and less productivity. 1 bar pressure reduction can imply 25% air motor power loss.

COMBINATION SETS

AC-B Series

The AC-B series of SMC consists of modular sets of filters, regulators and lubricators, with which the air quality and pressure of your installation can be optimized.

BENEFITS

- Transparent bowl: clearly visible liquid level
- Quick interchanging of filter elements and simple to add oil
- Bowl with bayonet connection: simple control, quick and easy maintenance
- Nylon bowl: chemical and other corrosive substances resistant
- Metal bowl: robust and shock and chemical resistant
- In-built pressure gauge: solid construction without protruding parts

APPLICATIONS

All equipment for air treatment can be used in any sector where pneumatic applications exist. Important industrial sectors: automotive, facilities, machine building.

FEATURES

- Transparent double-layered polycarbonate bowl protection. 360 degree visibility, light weight, corrosion proof
- Interchangeable with existing AC-series through panel mounting
- Element construction integrated in bowl, element and bowl form a whole. Choice of in-built pressure gauge and switch: square in-built pressure gauge, mounted round pressure gauge, digital pressure switch.
- Choice of bowl material: Polycarbonate (standard), metal (with or without level indication), Nylon

AC-SERIES - COMBINATION OF AF (FILTER), AR (REGULATOR), AL (LUBRICATOR) AND PRESSURE GAUGE

Type	Port size	Nl/min	Filter micron	Working pres. (MPa)	Bowl	Bowl with bayonet connection
AC20-F02E-B	1/4"	300	5	0,05 - 0,85	Polycarbonate	o
AC30-F03E-B	3/8"	1.500	5	0,05 - 0,85	Polycarbonate	s
AC40-F03E-B	3/8"	1.800	5	0,05 - 0,85	Polycarbonate	s
AC40-F04E-B	1/2"	2.200	5	0,05 - 0,85	Polycarbonate	s
AC40-F06E-B	3/4"	2.500	5	0,05 - 0,85	Polycarbonate	s
AC50-F06E-B	3/4"	3.000	5	0,05 - 0,85	Polycarbonate	s
AC50-F10E-B	1"	3.500	5	0,05 - 0,85	Polycarbonate	s
AC60-F10E-B	1"	4.000	5	0,05 - 0,85	Polycarbonate	s

o = optional, s = standard / Max. supply pressure: 1,5 MPa / Max. working pressure: 0,7 MPa / Temperature working area: -5 to 60° C.



AC-SERIES - COMBINATION OF AW (FILTER, REGULATOR COMBINATION), AL (LUBRICATOR) AND PRESSURE GAUGE

Type	Port size	Nl/min	Filter micron	Working pres. (MPa)	Bowl	Bowl with bayonet connection
AC20A-F02E-B	1/4"	300	5	0,05 - 0,85	Polycarbonate	o
AC30A-F03E-B	3/8"	1.500	5	0,05 - 0,85	Polycarbonate	s
AC40A-F04E-B	1/2"	2.000	5	0,05 - 0,85	Polycarbonate	s
AC50A-F06E-B	3/4"	3.000	5	0,05 - 0,85	Polycarbonate	s

o = optional, s = standard / Max. supply pressure: 1,5 MPa / Max. working pressure: 0,7 MPa / Temperature working area: -5 to 60° C.



FEATURES

- Other combinations
- Automatic drain, normally opened (add DE for E in order number). For good functioning, the drain line should have min. 8 mm diam. and should not be longer than 5 m
- Filtration 2, 10, 20, 40, 70, 100 µ
- For metal or nylon bowls see page 152

Polycarbonate bowls may be damaged and could possibly fail if they are exposed to synthetic oils, thinner solvents, trichloorethylene, kerosene and other aromatics hydrocarbons. If used in above atmosphere, please use a metal bowl!

WATER SEPARATORS & BOOSTERS

AMG-Series, VBA & VBAT Series

AMG SERIES WATER SEPARATORS

Type	Compressor kW	Nl/min	Port size Rc	Weight kg	Mounting brackets	Filter elements
AMG150C-F02C	2,2	300	1/4"	0,38	AM-BM101	AMG-EL150
AMG250C-F03D	5,5	700	3/8"	0,55	AM-BM102	AMG-EL250
AMG350C-F04D	11	1.300	1/2"	0,9	AM-BM103	AMG-EL350
AMG450C-F06D	15	2.200	3/4"	1,4	AM-BM104	AMG-EL450
AMG550C-F10D	22	3.300	1"	2,1	AM-BM105	AMG-EL550
AMG650-F14D	37	6.000	1 1/2"	4,2	BM56	AMG-EL650
AMG850-F20D	75	12.000	2"	10,5	BM57	AMG-EL850



AMG

Working pressure: 1,5 - 1,0 MPa bar / Temperature working area: -5 tot 60°C.

Accessories like mounting brackets and filter elements available on request.

FEATURES

- Easy and cheap removal 99% water from air
- Compact and light weight
- Port sizes from 1/4" to 2"
- Standard automatic drain for long term jobs
- Long life due to the special hardened resin grid with large mesh to reduce clogging
- Suitable for compressors of 2,2-75KW



Booster

APPLICATIONS

- Where air does not need to be 100% dry
- Where refrigerated air dryers cannot be used
- Where an affordable alternative is needed

Warning:

Place water separator at large enough distance from compressor.



Air tank with booster

VBA SERIES PRESSURE BOOSTERS

Type	Working pressure MPa	Nl/min	Connection	Pressure
VBA11A-F02	0,2-2,0	70	G 1/4	max. 4 : 1
VBA10A-F02	0,2-2,0	230	G 1/4	max. 2 : 1
VBA20A-F03	0,2-1,0	1.000	G 3/8	max. 2 : 1
VBA40A-F04	0,2-1,0	1.900	G 1/2	max. 2 : 1
VBA43A-F04	0,2-1,6	1.600	G 1/2	max. 2 : 1

FEATURES

- Incoming pressure 0,1-1MPa
- Increases incoming pressure x4
- Cooling not required
- Simple installation
- No separate energy supply needed
- Horizontal mounting bracket

VBAT SERIES AIR TANK

Type	Max. working pressure MPa	Content L
VBAT05A F-SV-Q	2,0	5
VBAT10A F-SV-Q	2,0	10
VBAT20A F-RV-Q	1,0	20
VBAT38A F-RV-Q	1,0	38

APPLICATIONS

Ideal in combination with pressure booster. This air tank can be easily connected to the pressure booster with the assembly set that is included as standard. Optional: combination with a larger air tank on request.

FILTERS

AF Series, AFM & AFD Series (modular)

AF SERIES FILTERS

Type	Connection	Nl/min	Filter micron	Bowl	Bowl protection with bajonet connection ¹⁾	Mounting brackets
AF20-F02-A	1/4"	1.100	5	Polycarbonate	s	AF22P-050AS
AF30-F02-A	1/4"	2.200	5	Polycarbonate	s	AF32P-050AS
AF30-F03-A	3/8"	2.600	5	Polycarbonate	s	AF32P-050AS
AF40-F03-A	3/8"	4.000	5	Polycarbonate	s	AF42P-050AS
AF40-F04-A	1/2"	4.300	5	Polycarbonate	s	AF42P-050AS
AF40-F06-A	3/4"	5.000	5	Polycarbonate	s	AF42P-070AS
AF50-F06-A	3/4"	7.000	5	Polycarbonate	s	AF52P-050AS
AF50-F10-A	1"	7.000	5	Polycarbonate	s	AF52P-050AS
AF60-F10-A	1"	8.500	5	Polycarbonate	s	AF52P-050AS
AF800-12	1 1/4"	12.000	5	Polycarbonate	s	-
AF800-14	1 1/2"	12.000	5	Polycarbonate	s	-
AF900-20	2"	16.000	5	Polycarbonate	s	-

1) o = option s = standard / Max. testing pressure 1,2 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees



ON REQUEST

- Other combinations
- Automatic drain, normally opened (add DE for E in order number). For proper functioning the drain line should have min. 8 mm diam. and should not be longer than 5 m.
- Filtration standard 5 micron, others upon request
- Metal or nylon bowls (see page 152)

Polycarbonate bowls may be damaged and could possibly fail if they are exposed to synthetic oils, thinner solvents, trichloorethylene, kerosene and other aromatic hydrocarbons. If used in above described atmosphere, please use a metal bowl (see page 152)

AFM SERIES MICROFILTERS

Type	Connection	Nl/min	Filter micron	Bowl	Bowl protection with bajonet connection ¹⁾	Mounting brackets
AFM20-F02-A	1/4"	200	0,3	Polycarbonate	o	AF22P-050AS
AFM30-F02-A	1/4"	400	0,3	Polycarbonate	s	AF32P-050AS
AFM30-F03-A	3/8"	400	0,3	Polycarbonate	s	AF32P-050AS
AFM40-F03-A	3/8"	900	0,3	Polycarbonate	s	AF42P-050AS
AFM40-F04-A	1/2"	1.000	0,3	Polycarbonate	s	AF42P-050AS
AFM40-F06-A	3/4"	1.000	0,3	Polycarbonate	s	AF42P-070AS



1) o = option s = standard / Max. testing pressure 1,2 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees

AFD SERIE - SUBMICROFILTERS

Type	Connection	Nl/min	Filter micron	Bowl	Bowl protection with bajonet connection ¹⁾	Mounting brackets
AFD20-F02-A	1/4"	120	0,01	Polycarbonate	o	AF22P-050AS
AFD30-F02-A	1/4"	270	0,01	Polycarbonate	s	AF32P-050AS
AFD30-F03-A	3/8"	270	0,01	Polycarbonate	s	AF32P-050AS
AFD40-F03-A	3/8"	600	0,01	Polycarbonate	s	AF42P-050AS
AFD40-F04-A	1/2"	600	0,01	Polycarbonate	s	AF42P-050AS
AFD40-F06-A	3/4"	600	0,01	Polycarbonate	s	AF42P-070AS

1) o = option s = standard / Max. testing pressure 1,2 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees

ON REQUEST

- Automatic drain (add D to order number). For proper functioning the drain line should have min. 8 mm diam. and should not be longer than 5 m.
- Metal or nylon bowl

The microfilters have an extremely large flow and a high degree of filtration. Works optimal in combination with standard filters. More than 99,9% of oil is removed. The filter should be replaced when the loss of pressure is larger than 0,1 MPa.

FILTERS & REGULATORS

AW-Series & AR-Series (modular)



AW SERIES FILTERS & REGULATORS

Type	Connection	Nl/min	Connection pressure gauge	Working pressure MPa	Filter micron	Bowl	Mounting nuts	Bowl protection with bajonet connection ³⁾	Mounting brackets
AW20-F02E-B	1/4"	500	Geointegr.	0,05 - 0,85	5	Polycarbonate	AR23P-260S	o	AW23P-270AS ¹⁾
AW30-F03E-B	3/8"	1.300	Geointegr.	0,05 - 0,85	5	Polycarbonate	AR33P-260S	s	AR33P-270AS ¹⁾
AW40-F04E-B	1/2"	1.900	Geointegr.	0,05 - 0,85	5	Polycarbonate	AR43P-260S	s	AR43P-270AS ¹⁾
AW40-F06E-B	3/4"	2.500	Geointegr.	0,05 - 0,85	5	Polycarbonate	AR43P-260S	s	AR43P-270AS ¹⁾
AW60-F10E-B	1"	8.000	Geointegr.	0,05 - 0,85	5	Polycarbonate	-	s	AW62P-270 AS ²⁾

1) Delivery with mounting nuts / 2) Delivery with mounting bolts / 3) o = option s = standard
Max. testing pressure 1,5 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees

ON REQUEST

- Automatic drain, normally opened (add DE for E in order number). For proper functioning the drain line should have min. 8 mm diam. and should not be longer than 5 m.
- Filtration standard 5 µ, others upon request
- Metal or nylon bowls (see page 152)

AR SERIES REGULATORS

Type	Connection	Nl/min	Connection pressure gauge	Working pressure MPa	Mounting nuts	Mounting brackets
AR20-F02E-B	1/4"	650	Integrated	0,05 - 0,85	AR23P-260S	AR23P-270AS*
AR30-F03E-B	3/8"	1.500	Integrated	0,05 - 0,85	AR33P-260S	AR33P-270AS*
AR40-F03E-B	3/8"	2.500	Integrated	0,05 - 0,85	AR43P-260S	AR43P-270AS*
AR40-F04E-B	1/2"	3.000	Integrated	0,05 - 0,85	AR43P-260S	AR43P-270AS*
AR40-F06E-B	3/4"	5.000	Integrated	0,05 - 0,85	AR43P-260S	AR43P-270AS*
AR50-F06E-B	3/4"	4.000	Integrated	0,05 - 0,85	-	AR52P-270AS**
AR50-F10E-B	1"	4.000	Integrated	0,05 - 0,85	-	AR52P-270AS**
AR60-F10E-B	1"	5.000	Integrated	0,05 - 0,85	-	AR52P-270AS**
AR825-12	1 1/4"	14.000	1/4"	0,05 - 0,85	-	-
AR825-14	1 1/2"	14.000	1/4"	0,05 - 0,85	-	-
AR925-20	2"	17.000	1/4"	0,05 - 0,85	-	-

* Delivery with mounting nuts / ** Delivery with mounting bolts
Max. testing pressure 1,5 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees

AR SERIES HIGH PRESSURE REGULATORS

Type	Connection	Nl/min	Connection pressure gauge	Working pressure MPa	Mounting nuts	Mounting brackets
AR40-F03-X425	3/8"	3.000	1/4"	0,05 - 1,6	AR40P-260S	AR40P-270AS*
AR40-F04-X425	1/2"	3.300	1/4"	0,05 - 1,6	AR40P-260S	AR40P-270AS*
AR60-F10-X425	1"	5.000	1/4"	0,05 - 1,6	-	AR50P-270AS**

* Delivery with mounting nuts / ** Delivery with mounting bolts
Max. testing pressure 3,0 MPa / Max. working pressure: 2,0 MPa / Temperature range: -5 to 60 degrees

LUBRICATORS

AL & ALDU-Series (modular)

SMC lubricators (AL-Series) are used for precise lubrication of the air tools and air chain hoists. From building height 30 the oil supply can be added under pressure through simple and precise tuning. Lubrication takes place even with low levels of air flow. For the optimal functioning of the lubricator the length of the hose between the lubricator and the tool should not exceed 8 meters. Longer hoses or the use of a hose reel will impede the functioning of the lubricator.

Auto-feed lubrication ensures both frequency of lubrication as well as volume thus saving your expenditure on oil. Other benefits are; less maintenance to your air tool or air chain hoist, increased safety in the working environment and less pollution.

The ALDU-series of SMC is a centralized lubricator with an oil mist range of up to 200 meters. Using the ALDU series, only one lubricator can service multiple air chain hoists or tools. This means; less maintenance and it reduces errors and oil-consumption by 80 to 90%. The use of hose-reels and FESTOON systems is possible when by using the ALDU series.

AL-SERIES LUBRICATORS

Type	Connection	Flow Nl/min	Lubricates from Nl/min	Level glass	Bowl	Bowl protection with bajonet connection	Mounting brackets
AL20-F02-A	1/4"	2.400	15	AL20P-080AS	Polycarbonate	s	AF22P-050AS
AL30-F03-A	3/8"	4.500	30	AL20P-080AS	Polycarbonate	s	AF32P-050AS
AL40-F03-A	3/8"	6.000	40	AL20P-080AS	Polycarbonate	s	AF42P-050AS
AL40-F04-A	1/2"	5.800	40	AL20P-080AS	Polycarbonate	s	AF42P-050AS
AL40-F06-A	3/4"	6.000	40	AL20P-080AS	Polycarbonate	s	AF42P-070AS
AL50-F06-A	3/4"	7.500	190	AL20P-080AS	Polycarbonate	s	AF52P-050AS
AL50-F10-A	1"	7.500	190	AL20P-080AS	Polycarbonate	s	AF52P-050AS
AL60-F10-A	1"	10.500	220	AL20P-080AS	Polycarbonate	s	AF52P-050AS
AL800-12	1 1/4"	13.000	460	12316	Polycarbonate	s	-
AL800-14	1 1/2"	13.000	650	12316	Polycarbonate	s	-
AL900-20	2"	20.000	1.800	12316	Polycarbonate	s	-

1) o = option s = standard

Max. testing pressure 1,5 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees / Recommended oil norm: ISO VG32

ALDU-SERIES

Type	Brand	Connection	Max. Nl/min	Filter micron	Working pressure MPa	Bowl capacity cm ³
EALDU600-10	SMC	1"	6.000	5	0,15 - 1,0	2.000
EALDU900-20	SMC	2"	15.000	5	0,15 - 1,0	5.000

Max. testing pressure 1,5 MPa / Max. working pressure: 1,0 MPa / Temperature range: -5 to 60 degrees



EALDU900E

LUBRICATORS

ALF & ALT-Series (modular & mobile units)

Do you have a lubricator in an area that is difficult to reach; for example high at the top hook of an air chain hoist? In such cases we advise the use of the SMC ALF/ALT-Series. The ALF-lubricator is automatically refilled from the ALT-Oil tank.

ALF-SERIES AUTO FEED LUBE

Type	Connection	Max. working pressure MPa	Lubricates from NL/min (ANR))	Bowl capacity cm ³	Bowl	Weight kg
ALF400-F04	1/2"	0,7	100	-	Polycarbonate	0,85
ALF900-F20	2"	0,7	1.800	-	Polycarbonate	1,9



ALF

ALT-SERIES AUTO FEED TANK

Type	Connection	Max. working pressure MPa	Lubricates from NL/min	Tankl cm ³	Bowl	Weight kg
ALT-5	Air 1/4"/Oil 3/8"	1,0	-	5.000	Metal	12,6
ALT-5-IS-1*	Air 1/4"/Oil 3/8"	1,0	-	5.000	Metal	13,2
ALT-9	Air 1/4"/Oil 3/8"	1,0	-	9.000	Metal	26,0
ALT-9-IS-1*	Air 1/4"/Oil 3/8"	1,0	-	9.000	Metal	26,6



ALT

*With level switch
Temperature range: -5 to 60 degrees / Recommended oil norm: ISO VG32

Mobile air treatment units

When working on location it is possible to use one of our mobile solutions to extend the lifetime of your equipment. With this unit the air is filtered, lubricated and the air pressure is regulated. Water and dirt cannot enter the air motor and the capacity of your air tool or hoist is maintained.



FOR OPTIMAL ADJUSTMENT YOU NEED TO TAKE INTO CONSIDERATION

- The dynamic air pressure (with an operating tool) of 0,63MPa
- Maximum hose length of 8 meters after the oil lubricator
- The kits are provided with claw couplings and a stainless steel frame

KIT-AC

Type	Connection	Max. working pressure MPa	NL/min	Working pressure MPa	Filter (micron)
KIT-AC40F04E	1/2"	1	2.200	0,05 - 0,85	5
KIT-AC50F06E	3/4"	1	3.000	0,05 - 0,85	5
KIT-AC50F10E	1"	1	3.500	0,05 - 0,85	5

BOWLS

FRL-Series

For series	Bowl for lubricator	Bowl for filter				O-ring for lubricator or filter
		Polycarbonate	Polycarbonate with automatic drain	Nylon	Metal	
20	C2SL-A	C2SF-A	AD27-C-A	C2SF-6-A	C2SF-2-A	C2SFP-260S
30	C3SL-A	C3SF-A	AD37-A	C3SF-6-A	C3SF-2-A	C32FP-260S
40	C4SL-A	C4SF-A	AD47-A	C4SF-6-A	C4SF-2-A	C42FP-260S
50	C4SL-A	C4SF-A	AD47-A	C4SF-6-A	C4SF-2-A	C42SFP-260S
60	C4SL-A	C4SF-A	AD47-A	C4SF-6-A	C4SF-2-A	C42SFP-260S



C2SF-A

Polycarbonate bowls may be damaged and could possibly fail if they are exposed to synthetic oils, thinner solvents, trichlorethylene, kerosene and other aromatic hydrocarbons. If used in above described atmosphere, please use a metal bowl.

Accessories for modular assembly versions



Y200-A

Y200T-A

Y210-F02-A

E200-F02-A

For series	Connection	Spacer	Spacer with bracket	T-interface	Piping adaptor
20	1/4"	Y200-A	Y200T-A	Y210-F02-A	E200-F02-A
30	3/8"	Y300-A	Y300T-A	Y310-F02-A	E300-F03-A
40	1/2"	Y400-A	Y400T-A	Y410-F03-A	E400-F04-A
40	3/4"	Y500-A	Y500T-A	Y50-F03-A	E500-F06-A
50	3/4"	Y600-A	Y600T-A	Y610-F04-A	E600-F06
50	1"	Y600-A	Y600T-A	Y610-F04-A	E600-F10
60	3/4"	Y600-A	Y600T-A	Y610-F04-A	E600-F06
60	1"	Y600-A	Y600T-A	Y610-F04-A	E600-F10

Piping adaptors for easy installation and maintenance. / Spacers for mounting the combination without wall connection. / T-type bracket for wall mounting. / Mounting brackets for the attachment of separate components in the corresponding product series.

EAD-SERIES: AUTOMATIC CONDENSATE DRAINS

Type	For series	Connection	Control	Nl/min	Silencer	Working pressure MPa	Diameter mm
AD402-F02C-A	-	1/4"	Pneumatic	-	-	-	-
AD402-F03D-A	-	3/8"	Pneumatic	-	-	-	-
AD402-F04D-A	-	1/2"	Pneumatic	-	-	-	-
EAD600-F10	-	1"	Pneumatic	-	-	-	-
ADM200-045	-	1/2"	Electric (220V)	-	-	-	-



EAD

VARIOUS PRODUCTS

AKM-SERIES: T-TYPE SPACERS WITH CHECK VALVE

Type	For series	Connection	Control	Nl/min	Silencer	Working pressure MPa	Diameter mm
AKM2000-F02-A	20	1/4"	-	750	-	-	-
AKM3000-F02-A	30	3/8"	-	1.700	-	-	-
AKM4000-F03-A	40	1/2"	-	3.150	-	-	-



AKM

VHS-SERIES: SHUT-OFF VALVES

Type	For series	Connection	Control	Nl/min	Silencer	Working pressure MPa	Diameter mm
VHS20-F02-A	20	1/4"	-	750	AN103-01	-	-
VHS30-F03-A	30	3/8"	-	1.700	AN200-02	-	-
VHS40-F04-A	40	1/2"	-	3.150	AN300-03	-	-



VHS

K serie

K-SERIES: PRESSURE GAUGES EXTERNAL

Type	For series	Connection	Control	Nl/min	Silencer	Working pressure MPa	Diameter mm
K8-10-40	20/30	1/8"	-	-	-	0 - 1	40
K4-10-50	40/50/60	1/4"	-	-	-	0 - 1	50



GC serie

ISE35

GC-SERIES: PRESSURE GAUGES INTERNAL

Type	For series	Connection	Control	Nl/min	Silencer	Working pressure MPa	Diameter mm
G27-10-R1	10	1/16"	-	-	-	0 - 1	26
GC3-10AS	20/30/40/50/60	-	-	-	-	0 - 1	24



ISE35-SERIES: INTEGRATED PRESSURE GAUGES WITH PRESSURE SWITCH AND CABLE

Type	For series	Power supply	Cable length m	Protection degree	Display	Set pressure range MPa	Output
ISE35-N-65-LA	20/30/40/50/60	12 - 24V DC	2	IP40	LED 2 kleuren	-0,01 - 1	PNP
ISE35-N-25-LA	20/30/40/50/60	12 - 24V DC	2	IP40	LED 2 kleuren	-0,01 - 1	NPN



AN#00

AN#0

AN-SERIES: SILENCERS

Type	Connection
AN10-01	1/8"
AN20-02	1/4"
AN30-03	3/8"
AN40-04	1/2"
AN500-06	3/4"
AN600-10	1"
AN700-12	1 1/4"
AN800-14	1 1/2"

Note: Noise reduction 30dB(A)

AMC-SERIES: ENVIRONMENTAL PROTECTION FILTERS

Type	Connection	Nl/min	Weight kg	Working pressure MPa
AMC310-03	3/8"	300	0,2	< 0,1
AMC310-F03	G 3/8"	300	0,2	< 0,1
AMC320-03	3/8"	300	0,2	< 0,1
AMC510-06	3/4"	1.000	0,5	< 0,1
AMC520-F04	G 1/2"	1.000	0,5	< 0,1
AMC520-F04B	G 1/2"	1.000	0,5	< 0,1
AMC520-F06	G 3/4"	1.000	0,5	< 0,1
AMC610-10	1"	3.000	0,7	< 0,1
AMC810-14	1 1/2"	6.000	1,2	< 0,1
AMC910-20	2"	10.000	1,7	< 0,1



AMC#10 serie

AMC#20 serie

SEPARATE FILTER ELEMENTS FOR THE AF/AW-SERIES

Type	Standard 5 µ
20	AF20P-060S
30	AF30P-060S
40	AF40P-060S
50	AF50P-060S
60	AF60P-060S

AM#10 = male / AM#20 = female | Secures clean air for the work environment | Reduces noise pollution with more than 35dB(A) | More than 99% oil removal

REFRIGERATED AIR DRYERS

IDFA serie

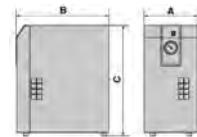
The SMC IDFA Series of refrigerated air dryers are the result of over 40 years of experience combined with the latest compressed air and refrigeration technology. Built according to international standards and recognized by SMC's BS EN ISO 9001 quality certification. The IDFA Series has thirteen standard models with nominal capacities ranging from 12 – 1.340 m³/h.



IDFA4E



IDFA6E



DIMENSIONS

FEATURES

- Innovative design ensures a constant +3 degrees °C pressure dew point
- High efficiency heat exchanger
- Environmentally ozone friendly refrigerants
- Conforms to stringent ISO8573-1 standard
- Simple control system with easy to read evaporator gauge
- Compact design for easy installation
- High performance, reliable and trouble-free

DIMENSIONS IDFA SERIES

Type	A	B	C
IDFA3E-23	226	410	437
IDFA4E-23	270	453	498
IDFA6E-23-K	270	455	498
IDFA8E-23-K	270	485	568
IDFA11E-23-K	270	485	568
IDFA15E-23-K	300	603	578
IDFA22E-23-K	290	775	623
IDFA37E-23-K	290	855	623
IDFA55E-23-L	470	855	800
IDFA75E-23-L	470	855	900
IDFA100F-40	670	1.120	1.276
IDFA125F-40	700	1.120	1.276
IDFA150F-40	950	1.290	1.332

NOMINAL AIR FLOW RATE [M³/H (ANR)]*

Type	3°C pressure dew point	7°C pressure dew point	10°C pressure dew point
IDFA3E-23	12	15	17
IDFA4E-23	24	31	34
IDFA6E-23-K	36	46	50
IDFA8E-23-K	65	83	91
IDFA11E-23-K	80	101	112
IDFA15E-23-K	120	152	168
IDFA22E-23-K	182	231	254
IDFA37E-23-K	273	347	382
IDFA55E-23-L	390	432	510
IDFA75E-23-L	660	720	822
IDFA100F-40	860	-	-
IDFA125F-40	1.100	-	-
IDFA150F-40	1.340	-	-

* Standard condition (ANR) with 20 °C ambient temperature, atmospheric pressure and relative humidity of 65%. Performance data for pressure dew point in accordance with operating conditions from ISO7183 (P1=0,7 MPa, T1=35 °C (saturated), cooling air temp. 25 °C).

IDFA SERIES: STANDARD TECHNICAL SPECIFICATIONS

Type	Inlet air pressure MPa Inlet air	temperature °C	Ambient temperature °C	Power supply voltage	Power consumption W	Air port connection	Refrigerant	Weight kg
IDFA3E-23	0,15 - 1	5 - 50	2 - 40	1 Phase 230V AC 50Hz/60Hz	180	Rc 3/8	R134a	18
IDFA4E-23	0,15 - 1	5 - 50	2 - 40	1 Phase 230V AC 50Hz/60Hz	180	Rc 1/2	R134a	22
IDFA6E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz/60Hz	180	Rc 3/4	R134a	23
IDFA8E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz/60Hz	208	Rc 3/4	R134a	27
IDFA11E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz/60Hz	385	Rc 3/4	R134a	28
IDFA15E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz	470	Rc 1	R134a	46
IDFA22E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz	760	R 1	R407C	54
IDFA37E-23-K	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz	760	R 1½	R407C	62
IDFA55E-23-L	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz	1.130	R 2	R407C	100
IDFA75E-23-L	0,15 - 1,6	5 - 50	2 - 40	1 Phase 230V AC 50Hz	1.700	R 2	R407C	116
IDFA100F-40	0,15 - 1*	5 - 60	2 - 45	3 Phase 400V AC 50Hz	2.500	R 2	R407C	245
IDFA125F-40	0,15 - 1*	5 - 60	2 - 45	3 Phase 400V AC 50Hz	2.700	R 2½	R407C	270
IDFA150F-40	0,15 - 1*	5 - 60	2 - 45	3 Phase 400V AC 50Hz	2.700	DIN 80	R407C	350

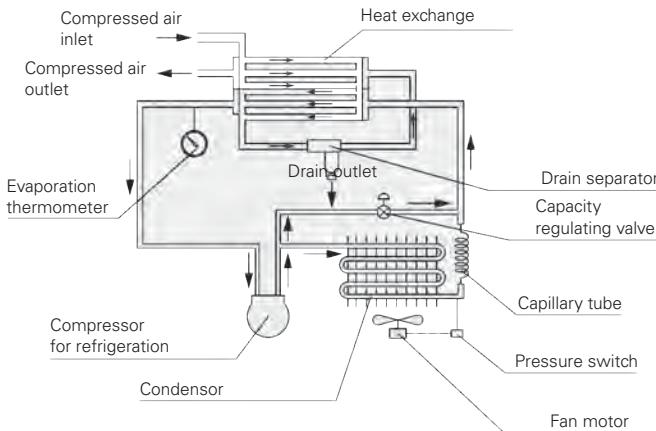
* Also available in 0,15-1,6 MPa

Note: Thread adaptors to convert from Rc thread to R thread are included from IDFA3E to IDFA15E

REFRIGERATED AIR DRYERS

Operating principle / correction factors

DIMENSIONS IDFA SERIES



Saturated compressed air enters the air-to-air heat exchanger. The incoming air is cooled by the cold air exiting the dryer. The air passes through the evaporator, where it is further cooled to 3 °C dew point. As the air cools, the water condenses to liquid which is removed by the automatic drain. The dry air is then passed back through the air-to-air heat exchanger where it is reheated before leaving the dryer.

BANISH MOISTURE IN YOUR COMPRESSED AIR

Tests carried out by SMC, the world leader in pneumatic technology, have indicated that in certain atmospheric conditions the moisture in compressed air using a 75kW compressor after one day of operation, could be equivalent to a 113 liters of water.

Any compressed air system containing this volume of air moisture will suffer dramatically reduced valve and air cylinder performance. Armed with this knowledge, SMC's R&D department have produced the perfect answer with the IDFA Series.

Designed specifically for the European market, with both CE accreditation and 230V AC (50Hz) voltage requirements, the IDFA Series effectively removes water vapour through a highly efficient stainless steel, corrosion resistant, heat exchanger. With 13 flow rate size options ranging from 12 to 1,340 M3/h (ANR), these air dryers use ozone friendly HFC refrigerants R134a/R407C and emit outlet air at 3 °C point as per ISO8573-1 standard.

Thanks to an evaporation temperature gauge it is simple to confirm correct operation. The IDFA Series is also highly efficient due to minimal pressure drop during operation, which improves energy saving.

CORRECTION FACTORS IDFA3E-23 UP TO IDFA75E-23-L

Inlet air temp. C		5-25°	30°	35°	40°	45°	50°							
Correction factor A		1,30	1,25	1,00	0,83	0,70	0,60							
Ambient temp.(°C)		20°	25°	30°	35°	40°								
Correction factor B	IDFA3E - IDFA11E	1,10	1,00	0,91	0,83	0,79								
	IDFA15E - IDFA37E	1,10	1	0,97	0,89	0,77								
Inlet air pressure MPa		0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5
Correction factor C	IDFA3E - IDFA11E	0,80	0,87	0,92	0,96	1,00	1,04	1,07	1,10	1,13	1,16	1,18	1,21	1,23
	IDFA15E - IDFA37E	0,72	0,81	0,88	0,95	1,00	1,06	1,11	1,16	1,19	1,21	1,23	1,25	1,26
														1,27

Corrected air flow rate [m³/h] = Customers air flow rate / (factor A x factor B x factor C)

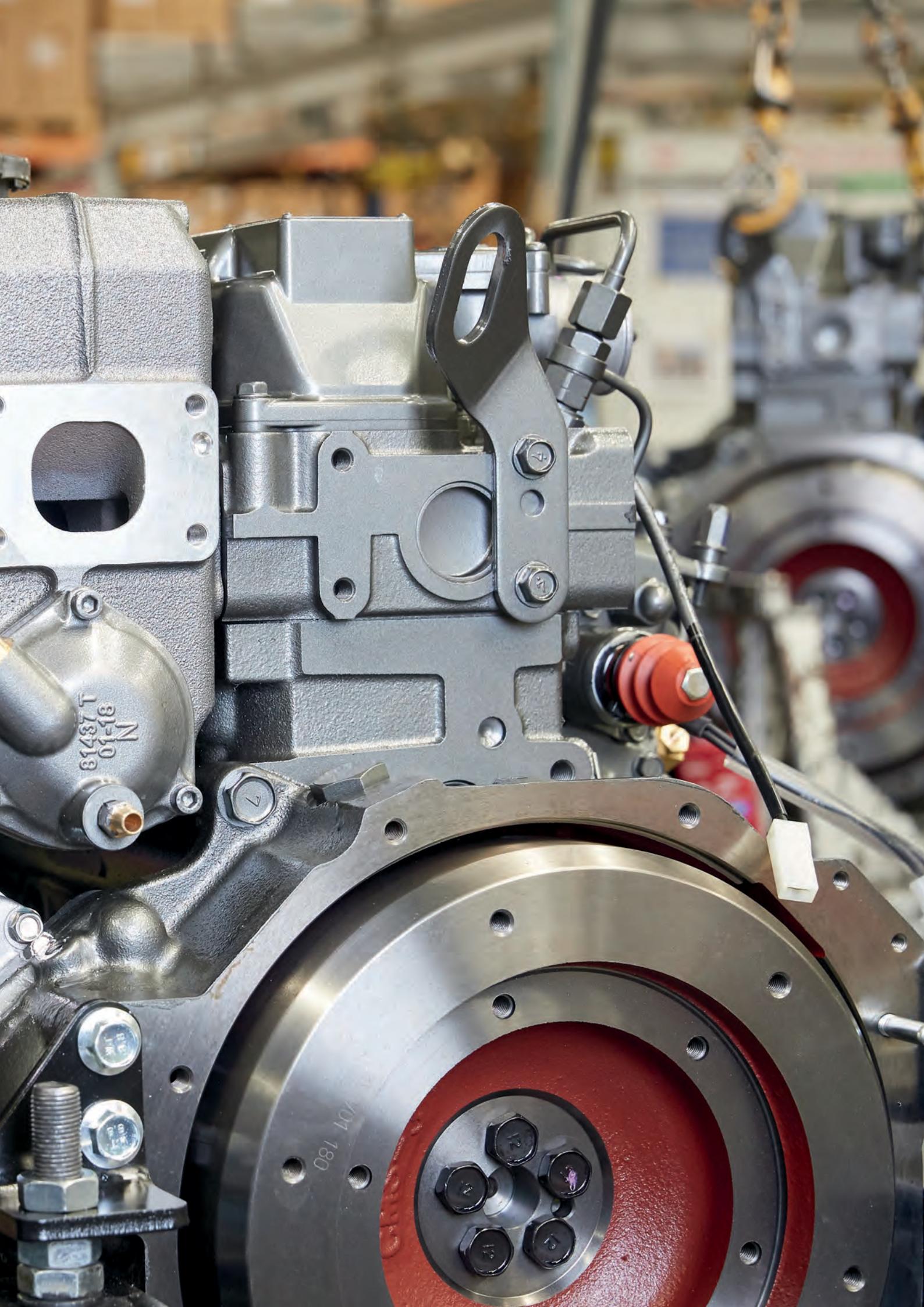
CORRECTION FACTORS IDFA100F-40 UP TO IDFA150F-40

Correction factor A		Correction factor B		Correction factor C		Correction factor D	
Inlet temp. (°C)	Correction factor	Ambient temp. (°C)	Correction factor	Pressure dew point (°C)	Correction factor	Pressure inlet air MPa	Correction factor
5 up to 30	1,41	2 up to 25	-	3	0,7	0,2	0,84
35	1,21	30	-	5	0,75	0,3	0,87
40	1	32	1	10	1	0,4	0,9
45	0,92	35	1	15	1,4	0,5	0,93
50	0,75	40	0,99			0,6	0,96
55	0,63	45	0,92			0,7	1
60	0,53					0,8	0,99
						0,9	0,92
						1 up to 1,6	

Corrected air flow rate [m³/h] = air flow rate of the customer / (factor A x factor B x factor C x factor D)

IMPACT SOCKETS





01 180



IMPACT SOCKETS

ACTION is the worlds' largest manufacturer of impact sockets. Its impact sockets are durable, of high quality and competitively priced and manufactured from the best materials (chrom-molybdenum alloy steel). The ACTION impact sockets can be used for any kind of power tools; air, electric, hydraulic or battery, and for any kind of application ranging from car repair shops to the car industry. At Rami Yokota we have a very large continuous stock available, ranging from 1/4" drive to 2 1/2" drive.



SQUARE DRIVE

ACTION impact sockets are available for square drives of 1/4" up to 2 1/2". The shape of the square drive of these sockets is characterized by rounded off corners, so the square drive of the powertool has the best possible fit. This means that the torque is transmitted on a large area, not only the corners of the socket. This results in good endurance of the sockets and a long lifetime.



6-POINT SOCKETS

The 6-point sockets manufactured by ACTION also have rounded off corners. The rounded corners allow some space for the points of the bolt head, so the torque is transmitted on the flanks of the bolt head, giving you better results. Driving the flanks also means that the wear on the points of the bolt head or nut is reduced. For 12 point sockets, a similar geometry is used.



SURFACE DRIVE SOCKETS

Surface drive sockets are designed to drive only the center of the flank of a bolthead or nut. The surface drive sockets should be recommended for use on nuts with points that have worn off, but also for nuts of softer materials and polished nuts and boltheads.



The European regulation, directive of machinery 2006/42/EG and EN/ISO 11148-6 states that only IMPACT SOCKETS are to be used on power tools. All Action impact sockets are manufactured according to DIN 3121 and DIN 3129. Universal joints, reducing adaptors and thin wall sockets are supplied without warranty. Always wear safety goggles when using impact equipment. Do not hold the socket while in use.

WARNING

NOTE: If you can't find the proper dimensions please contact us.

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1/4"

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1/4" HEX DRIVE FOR SCREWDRIVERS

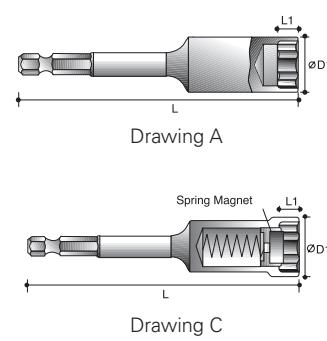


6-POINT NORMAL						
Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B0S04	4	A	8	55	4,5	-
DO697B0S06	6	A	10	55	4,5	-
DO697B0S07	7	A	11	55	5	-
DO697B0S08	8	A	12	55	5	-
DO697B0S10	10	A	14	55	6,5	-
DO697B0T06	6	A	10	75	4,5	-
DO697B0T07	7	A	11	75	4,5	-
DO697B0T08	8	A	12	75	4,5	-
DO697B0T10	10	A	14	75	5,5	-
DO697B0T12	12	A	17	75	5,5	-
DO697B0T13	13	A	18	75	5,5	-
DO697B0T14	14	A	19	75	5,5	-
DO697B0W12	12	A	17	200	5,5	-
DO697B0W14	14	A	19	200	5,5	-

6-POINT DEEP MAGNETIC						
Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B6006	6	C	10	75	4,5	-
DO697B7006	6	C	10	100	4,5	-
DO697B7008	8	C	12	100	4,5	-
DO697B7010	10	C	14	100	5,5	-
DO697B7012	12	C	17	100	5,5	-
DO697B7013	13	C	18	100	5,5	-
DO697B7014	14	C	19	100	5,5	-
DO697B8006	6	C	10	150	4,5	-
DO697B8008	8	C	12	150	4,5	-
DO697B8010	10	C	14	150	5,5	-
DO697B8012	12	C	17	150	5,5	-
DO697B8013	13	C	18	150	5,5	-
DO697B8014	14	C	19	150	5,5	-
DO697B9006	6	C	10	200	4,5	-
DO697B9008	8	C	12	200	4,5	-
DO697B9010	10	C	14	200	5,5	-
DO697B9012	12	C	17	200	5,5	-
DO697B9013	13	C	18	200	5,5	-
DO697B9014	14	C	19	200	5,5	-

6-POINT MAGNETIC						
Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B0M06	6	B	10	55	4,5	-
DO697B0M07	7	B	11	55	4,5	-
DO697B0M08	8	B	12	55	4,5	-
DO697B0M10	10	B	14	55	5,5	-
DO697B0M11	11	B	16	55	5,5	-
DO697B0M12	12	B	17	55	5,5	-
DO697B0M13	13	B	18	55	5,5	-
DO697B0M14	14	B	19	55	5,5	-
DO697B0N10	10	B	14	75	5,5	-
DO697B0N12	12	B	17	75	5,5	-
DO697B0P06	6	B	10	100	4,5	-
DO697B0P07	7	B	11	100	4,5	-
DO697B0P08	8	B	12	100	4,5	-
DO697B0P10	10	B	14	100	5,5	-
DO697B0P12	12	B	17	100	5,5	-
DO697B0P13	13	B	18	100	5,5	-
DO697B0P14	14	B	19	100	5,5	-
DO697B0P17	17	B	23	100	5,5	-
DO697B0Q10	10	B	14	150	5,5	-
DO697B0R07	7	B	11	200	4,5	-
DO697B0R10	10	B	14	200	5,5	-

TAP HOLDERS						
Type	□ A mm	Drawing	Ø d mm	Ø D mm	L mm	-
Metric						
DO63A65001	3,4	D	4,5	14	55	-
DO63A65002	4,9	D	6	15	55	-
DO63A65003	5,5	D	7	16	55	-
DO63A65004	6,2	D	8	17	60	-
DO63A65005	7	D	9	18	70	-
DO63A65006	8	D	10	19	70	-
DO63A65007	9	D	11	20	70	-
DO63A65008	9	D	12	21	70	-
DO63A65009	11	D	14	23	75	-



1/4" SQUARE DRIVE



6-POINT NORMAL 1

Type		Drawing mm	D1 mm	L mm	L1 mm	-
Metric						
DO0014-0-004	4	A	7,6	13	23	4
DO0014-0-0045	4,5	A	8,2	13	23	5
DO0014-0-005	5	A	8,8	13	23	5
DO0014-0-0055	5,5	A	9,5	13	23	5
DO0014-0-006	6	A	10	13	23	6
DO0014-0-007	7	A	11,3	13	23	6
DO0014-0-008	8	A	12,5	13	23	7
DO0014-0-009	9	A	13,8	13	23	7
DO0014-0-010	10	C	15	13	23	7
DO0014-0-011	11	C	16,3	13	23	8
DO0014-0-012	12	C	17	13	23	8
DO0014-0-013	13	C	18,8	13	23	8
DO0014-0-014	14	C	20	13	23	8
DO0014-0-015	15	C	21	13	23	8

6-POINT NORMAL MAGNETIC 3

Type		Drawing mm	D1 mm	L mm	L1 mm	-
Metric						
DO6050P050	5	A	8,8	13	23	3
DO6050P055	5,5	A	9,5	13	23	3
DO6050P060	6	A	10	13	23	3
DO6050P070	7	A	11,3	13	23	3
DO6050P080	8	A	12,5	13	23	3
DO6050P090	9	C	13,8	13	23	4
DO6050P100	10	C	15	13	23	4
DO6050P110	11	C	16,3	13	23	5
DO6050P120	12	C	17	13	23	5
DO6050P130	13	C	18,8	13	23	5
DO6050P140	14	C	20	13	23	6
DO6050P150	15	C	21	13	23	6
DO0014-1-015	15	C	21	13	50	9

6-POINT NORMAL 1

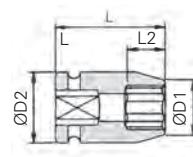
Type		Drawing mm	D1 mm	L mm	L1 mm	-
Inch						
DO0014-0-3/16	3/16"	A	8,5	13	23	5
DO0014-0-1/4	1/4"	A	10,3	13	23	6
DO0014-0-5/16	5/16"	A	12,5	13	23	7
DO0014-0-3/8	3/8"	C	15	13	23	7
DO0014-0-7/16	7/16"	C	16,3	13	23	8
DO0014-0-1/2	1/2"	C	18,8	13	23	8

6-POINT DEEP 2

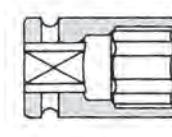
Type		Drawing mm	D1 mm	L mm	L1 mm	-
Metric						
DO0014-1-004	4	A	7,6	13	50	4
DO0014-1-045	4,5	A	8,2	13	50	6
DO0014-1-005	5	A	8,8	13	50	6
DO0014-1-006	6	A	10	13	50	7
DO0014-1-007	7	A	11,3	13	50	7
DO0014-1-008	8	A	12,5	13	50	9
DO0014-1-009	9	C	13,8	13	50	9
DO0014-1-010	10	C	15	13	50	9
DO0014-1-011	11	C	16,3	13	50	9
DO0014-1-012	12	C	17	13	50	9
DO0014-1-013	13	C	18,8	13	50	9
DO0014-1-014	14	C	20	13	50	9
DO0014-1-015	15	C	21	13	50	9

DEEP MAGNETIC 4

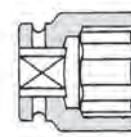
Type		Drawing mm	D1 mm	L mm	L1 mm	-
Metric						
DO6050R050	5	A	8,8	13	50	3
DO6050R055	5,5	A	9,5	13	50	3
DO6050R060	6	A	10	13	50	3
DO6050R070	7	A	11,3	13	50	3
DO6050R080	8	A	12,5	13	50	3
DO6050R090	9	C	13,8	13	50	4
DO6050R100	10	C	15	13	50	4
DO6050R110	11	C	16,3	13	50	5
DO6050R120	12	C	17	13	50	5
DO6050R130	13	C	18,8	13	50	5
DO6050R140	14	C	20	13	50	6
DO6050R150	15	C	21	13	50	6



Drawing A



Drawing B



Drawing C

1/4" SQUARE DRIVE



HEX DRIVER

Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO64805025	2,5	D	13	35	4	-
DO64805030	3	D	13	35	6	-
DO64805040	4	D	13	35	6	-
DO64805050	5	D	13	35	6	-
DO64805060	6	D	13	35	8	-
DO64805070	7	D	13	35	8	-
DO64805080	8	D	13	35	8	-
DO64805090	9	D	13	35	10	-
DO64805100	10	D	13	35	10	-



1

TORX INTERNAL

Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO64701005	T5	F	13	2	35	-
DO64701006	T6	F	13	2	35	-
DO64701007	T7	F	13	2	35	-
DO64701008	T8	F	13	2	35	-
DO64701009	T9	F	13	2	35	-
DO64701010	T10	F	13	2,8	35	-
DO64701015	T15	F	13	2,8	35	-
DO64701020	T20	F	13	2,8	35	-
DO64701025	T25	F	13	3	35	-
DO64701027	T27	F	13	3	35	-
DO64701030	T30	F	13	3,8	35	-



2

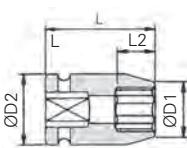
Torx® is a trademark of Textron

TORX® TAMPER RESISTANT INTERNAL

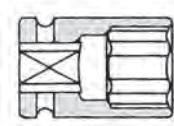
Type	mm	Drawing	D2 mm	L mm	L1 mm	-
DO64706008	T8	F	13	2,0	35	-
DO64706009	T9	F	13	2,0	35	-
DO64706010	T10	F	13	2,8	35	-
DO64706015	T15	F	13	2,8	35	-
DO64706020	T20	F	13	2,8	35	-
DO64706025	T25	F	13	3,0	35	-
DO64706027	T27	F	13	3,0	35	-
DO64706030	T30	F	13	3,8	35	-

2

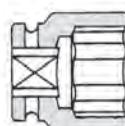
Torx® is a trademark of Textron



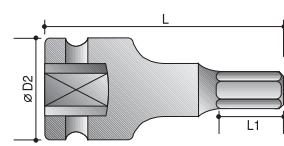
Drawing A



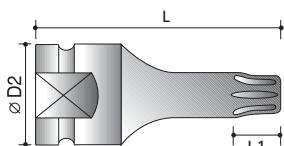
Drawing B



Drawing C



Drawing D



Drawing F

1/4" SQUARE DRIVE



SURFACE DRIVE NORMAL

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63405040	4	A	7,6	13	23	4
DO63405045	4,5	A	8,2	13	23	5
DO63405050	5	A	8,8	13	23	5
DO63405055	5,5	A	9,5	13	23	5
DO63405060	6	A	10	13	23	6
DO63405070	7	A	11,3	13	23	6
DO63405080	8	A	12,5	13	23	7
DO63405090	9	C	13,8	13	23	7
DO63405100	10	C	15	13	23	7
DO63405110	11	C	16,3	13	23	8
DO63405120	12	C	17	13	23	8
DO63405130	13	C	18,8	13	23	8
DO63405140	14	C	20	13	23	8
DO63405150	15	C	21	13	23	8

UNIVERSAL JOINT SOCKETS 6-POINT

3

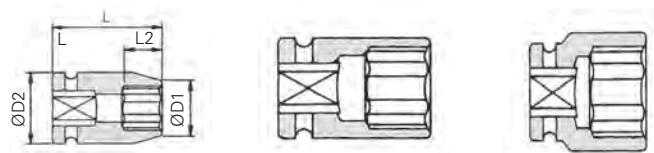
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO62500050	5	E	8,8	15	43	5
DO62500055	5,5	E	9,5	15	43	6
DO62500060	6	E	10	15	43	6
DO62500070	7	E	11,5	15	43	8
DO62500080	8	E	12,5	15	43	8
DO62500090	9	E	14	15	43	8
DO62500100	10	E	15	15	43	8
DO62500110	11	E	16,5	15	43	8
DO62500120	12	E	16,8	16	48	8
DO62500130	13	E	18,8	16	48	8
DO62500140	14	E	19,8	16	48	8
DO62500150	15	E	20,8	16	48	8

Universal joint sockets are not covered by the Action warranty

SURFACE DRIVE DEEP

2

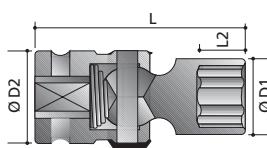
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63407040	4	A	7,6	13	50	4
DO63407045	4,5	A	8,2	13	50	6
DO63407050	5	A	8,8	13	50	6
DO63407055	5,5	A	9,5	13	50	6
DO63407060	6	A	10	13	50	7
DO63407070	7	A	11,3	13	50	7
DO63407080	8	A	12,5	13	50	9
DO63407090	9	C	13,8	13	50	9
DO63407100	10	C	15	13	50	9
DO63407110	11	C	16,3	13	50	9
DO63407120	12	C	17	13	50	9
DO63407130	13	C	18,8	13	50	9
DO63407140	14	C	20	13	50	9
DO63407150	15	C	21	13	50	9



Drawing A

Drawing B

Drawing C



Drawing E

PIN AND RING

Type
DO1014-0-000



3/8" SQUARE DRIVE



6-POINT NORMAL 1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO1038-0-006	6	A	11	19	30	4
DO1038-0-007	7	A	12,5	19	30	8
DO1038-0-008	8	A	14	19	30	8
DO1038-0-009	9	A	15	19	30	8
DO1038-0-010	10	A	16	19	30	8
DO1038-0-011	11	A	17,5	19	30	9
DO1038-0-012	12	B	19	19	30	9
DO1038-0-013	13	A	20	22	30	9
DO1038-0-014	14	A	21	22	30	9
DO1038-0-015	15	B	22	22	30	11
DO1038-0-016	16	C	24	22	30	11
DO1038-0-017	17	C	25	22	30	11
DO1038-0-018	18	C	26	22	30	11
DO1038-0-019	19	C	27,5	22	30	11
DO1038-0-020	20	C	28	22	30	12
DO1038-0-021	21	C	30	22	30	13
DO1038-0-022	22	C	32	23	30	13
DO1038-0-024	24	C	34	23	30	13

6-POINT NORMAL 2

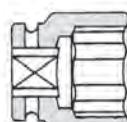
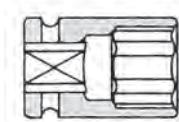
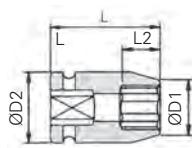
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO1038-0-5/16	5/16"	A	12,5	19	30	8
DO1038-0-3/8	3/8"	A	14,5	19	30	8
DO1038-0-7/16	7/16"	A	17	19	30	9
DO1038-0-1/2	1/2"	B	19	19	30	9
DO1038-0-9/16	9/16"	B	20	20	30	9
DO1038-0-5/8	5/8"	B	24	24	30	11
DO1038-0-11/16	11/16"	B	24	24	30	11

6-POINT NORMAL MAGNETIC 3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6051P006	6	A	11,5	19	30	3
DO6051P007	7	A	12,5	19	30	3
DO6051P008	8	A	14	19	30	3
DO6051P009	9	A	15	19	30	4
DO6051P010	10	A	16,5	19	30	4
DO6051P011	11	A	17,5	19	30	5
DO6051P012	12	B	19	19	30	5
DO6051P013	13	A	20	22	30	5
DO6051P014	14	A	21,5	22	30	6
DO6051P015	15	B	22	22	30	6
DO6051P016	16	C	24	22	30	6
DO6051P017	17	C	25	22	30	6
DO6051P018	18	C	26	22	30	7
DO6051P019	19	C	27,5	22	30	7

6-POINT DEEP MAGNETIC 4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6051R006	6	A	11,5	19	55	3
DO6051R007	7	A	12,5	19	55	3
DO6051R008	8	A	14	19	55	3
DO6051R009	9	A	15	19	55	4
DO6051R010	10	A	16,5	19	55	4
DO6051R011	11	A	17,5	19	55	5
DO6051R012	12	B	19	19	55	5
DO6051R013	13	A	20	22	55	5
DO6051R014	14	A	21,5	22	55	6
DO6051R015	15	B	22	22	55	6
DO6051R016	16	C	24	22	55	6
DO6051R017	17	C	25	22	55	6
DO6051R018	18	C	26	22	55	7
DO6051R019	19	C	27,5	22	55	7



Drawing A

Drawing B

Drawing C

3/8" SQUARE DRIVE

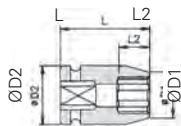


6-POINT DEEP

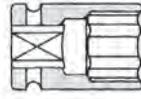
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO1038-1-006	6	A	11	19	63	12
DO1038-1-007	7	A	12,5	19	63	12
DO1038-1-008	8	A	13,8	19	63	12
DO1038-1-009	9	A	15	19	65	12
DO1038-1-010	10	A	16	19	65	12
DO1038-1-011	11	A	17,5	19	65	25
DO1038-1-012	12	B	19	19	65	25
DO1038-1-013	13	A	20	22	65	25
DO1038-1-014	14	A	21	22	65	25
DO1038-1-015	15	B	22	22	65	25
DO1038-1-016	16	C	24	22	65	25
DO1038-1-017	17	C	25	22	65	25
DO1038-1-018	18	C	26	22	65	25
DO1038-1-019	19	C	27,5	22	65	25
DO1038-1-020	20	C	28	22	65	25
DO1038-1-021	21	C	30	22	65	25
DO1038-1-022	22	C	32	23	65	25
DO1038-1-024	24	C	34	23	65	25

12-POINT NORMAL

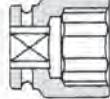
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65815006	6	A	11	19	30	5
DO65815007	7	A	12	19	30	8
DO65815008	8	A	13	19	30	8
DO65815009	9	A	15	19	30	8
DO65815010	10	A	16	19	30	8
DO65815011	11	A	17,5	19	30	9
DO65815012	12	A	18,5	19	30	9
DO65815013	13	A	20	22	30	10
DO65815014	14	A	21	22	32	11
DO65815015	15	B	22	22	32	12
DO65815016	16	C	24	22	32	12
DO65815017	17	C	25	22	34	12
DO65815018	18	C	26	22	34	13
DO65815019	19	C	27	22	34	13
DO65815020	20	C	28	22	34	13
DO65815021	21	C	30	22	34	14
DO65815022	22	C	31	23	34	15
DO65815023	23	C	32	23	34	15
DO65815024	24	C	34	23	34	16
DO65815025	25	C	35	23	36	16
DO65815026	26	C	36	23	36	16



Drawing A



Drawing B



Drawing C

12-POINT DEEP

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65817006	6	A	11	19	63	5
DO65817007	7	A	12	19	63	5
DO65817008	8	A	13	19	63	6
DO65817009	9	A	15	19	65	6
DO65817010	10	A	16	19	65	7
DO65817011	11	A	17,5	19	65	8
DO65817012	12	A	18,5	19	65	9
DO65817013	13	A	20	22	65	9
DO65817014	14	A	21	22	65	11
DO65817015	15	B	22	22	65	11
DO65817016	16	C	24	22	65	11
DO65817017	17	C	25	22	65	11
DO65817018	18	C	26	22	65	13
DO65817019	19	C	27	22	65	13
DO65817020	20	C	28	22	65	13
DO65817021	21	C	30	22	65	15
DO65817022	22	C	31	23	65	15
DO65817023	23	C	32	23	65	15
DO65817024	24	C	34	23	65	16
DO65817025	25	C	35	23	65	16
DO65817026	26	C	36	23	65	16

ACCESSORIES

STUD BOLT SETTERS

Type	Size	D1 mm	D2 mm	L mm
DO69781050	M5x0,8	12	22	50
DO69781053	M6x1,0	12,5	22	50
DO69781056	M7x1,0	13	22	50
DO69781059	M8x1,0	15	22	50
DO69781060	M8x1,25	14,5	22	50
DO69781062	M10x1,25	18	22	50
DO69781063	M10x1,5	17	22	50
DO69781066	M12x1,75	19	22	50



3/8" SQUARE DRIVE



1 2 3 4 5

6-POINT L=150

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60715006	6	G	11	19	150	4
DO60715008	8	G	13	19	150	8
DO60715010	10	G	16	19	150	8
DO60715012	12	G	18,5	19	150	9
DO60715013	13	G	20	22	150	9
DO60715014	14	G	21	22	150	9
DO60715015	15	G	22	22	150	11
DO60715016	16	G	24	22	150	11
DO60715017	17	G	25	22	150	11
DO60715018	18	G	26	22	150	12

6-POINT L=200

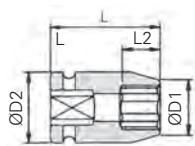
2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60716006	6	G	11	19	200	4
DO60716008	8	G	13	19	200	8
DO60716010	10	G	16	19	200	8
DO60716012	12	G	18,5	19	200	9
DO60716013	13	G	20	22	200	9
DO60716014	14	G	21	22	200	9
DO60716015	15	G	22	22	200	11
DO60716016	16	G	24	22	200	11
DO60716017	17	G	25	22	200	11

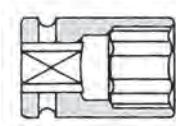
6-POINT L=250

3

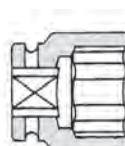
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60717006	6	G	11	19	250	4
DO60717008	8	G	13	19	250	8
DO60717010	10	G	16	19	250	8
DO60717012	12	G	18,5	19	250	9
DO60717013	13	G	20	22	250	9
DO60717014	14	G	21	22	250	9
DO60717015	15	G	22	22	250	11
DO60717016	16	G	24	22	250	11
DO60717017	17	G	25	22	250	11



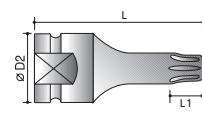
Drawing A



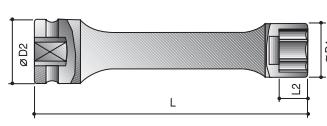
Drawing B



Drawing C



Drawing F



Drawing G

SURFACE DRIVE NORMAL

4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63415008	8	A	13,8	19	32	8
DO63415009	9	A	15	19	32	8
DO63415010	10	A	16	19	32	8
DO63415011	11	A	17,5	19	32	9
DO63415012	12	B	19	19	32	9
DO63415013	13	A	20	22	32	9
DO63415014	14	B	22	22	32	9
DO63415015	15	B	22	22	32	11
DO63415016	16	C	24	22	32	11
DO63415017	17	C	25	22	32	11
DO63415018	18	C	26	22	32	11
DO63415019	19	C	28	22	32	11

SURFACE DRIVE NORMAL

4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO63410008	1/4"	A	11,5	19	32	4
DO63410010	5/16"	A	13,8	19	32	8
DO63410012	3/8"	A	15,5	19	32	8
DO63410014	7/16"	A	17,5	19	32	9
DO63410016	1/2"	A	20	22	32	9
DO63410018	9/16"	B	22	22	32	11
DO63410020	5/8"	C	24	22	32	11
DO63410022	11/16"	C	26	22	32	11
DO63410024	3/4"	C	28	22	32	11

TORX® INTERNAL

5

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO64711009	T9	F	19	2,8	50	-
DO64711010	T10	F	19	2,8	50	-
DO64711015	T15	F	19	2,8	50	-
DO64711020	T20	F	19	3,0	50	-
DO64711025	T25	F	19	3,0	50	-
DO64711027	T27	F	19	3,8	50	-
DO64711030	T30	F	19	3,8	50	-
DO64711040	T40	F	19	4,3	50	-
DO64711045	T45	F	19	5,0	50	-
DO64711047	T47	F	19	5,0	50	-
DO64711050	T50	F	19	5,5	50	-

3/8" SQUARE DRIVE



SURFACE DRIVE DEEP

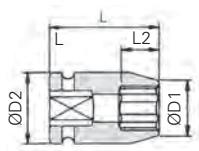
Type		Drawing mm	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63417008	8	A	13,8	19	80	12
DO63417009	9	A	15	19	80	12
DO63417010	10	A	16	19	80	12
DO63417011	11	A	17,5	19	80	25
DO63417012	12	B	19	19	80	25
DO63417013	13	A	20	22	80	25
DO63417014	14	B	22	22	80	25
DO63417015	15	B	22	22	80	25
DO63417016	16	C	24	22	80	25
DO63417017	17	C	25	22	80	25
DO63417018	18	C	26	22	80	25
DO63417019	19	C	28	22	80	25

SURFACE DRIVE DEEP

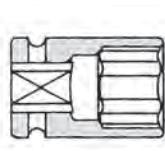
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO63412010	5/16"	A	13,8	19	80	12
DO63412012	3/8"	A	15,5	19	80	12
DO63412014	7/16"	A	17,5	19	80	25
DO63412016	1/2"	A	20	22	80	25
DO63412018	9/16"	B	22	22	80	25
DO63412020	5/8"	C	24	22	80	25
DO63412022	11/16"	C	26	22	80	25
DO63412024	3/4"	C	28	22	80	25

TORX® TAMPER RESISTANT INTERNAL

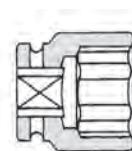
Type		Drawing	D2 mm	L1 mm	L mm	-
DO64716020	T20	F	19	3,0	50	-
DO64716025	T25	F	19	3,0	50	-
DO64716027	T27	F	19	3,8	50	-
DO64716030	T30	F	19	3,8	50	-
DO64716040	T40	F	19	4,3	50	-
DO64716045	T45	F	19	5,0	50	-
DO64716047	T47	F	19	5,0	50	-
DO64716050	T50	F	19	5,5	50	-
DO64716055	T55	F	19	5,5	50	-



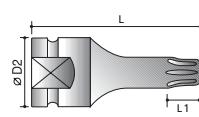
Drawing A



Drawing B



Drawing C



Drawing F

TORX® EXTERNAL

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO63310005	E5	A	9	19	32	4,5
DO63310006	E6	A	10	19	32	5
DO63310007	E7	A	10	19	32	6
DO63310008	E8	A	10,5	19	32	6
DO63310010	E10	A	12,5	19	32	7,5
DO63310011	E11	A	14,5	19	32	8
DO63310012	E12	A	15	19	32	8,5
DO63310014	E14	A	17,5	19	32	10
DO63310016	E16	B	19	19	32	11
DO63310018	E18	B	21	21	34	12,5

TORX® EXTERNAL MAGNETIC

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6331N008	E8	A	11,5	19	32	5
DO6331N010	E10	A	13,5	19	32	5
DO6331N011	E11	A	14	19	32	5
DO6331N012	E11	A	15,5	19	32	6
DO6332N014	E14	A	17,5	19	32	8
DO6332N016	E16	A	19	19	32	9
DO6332N018	E18	A	21	21	32	9

Torx® is a trademark of Textron

TORX® THIN WALL EXTERNAL

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO63315005	E5	A	8	19	32	4,5
DO63315006	E6	A	9	19	32	5
DO63315007	E7	A	9,3	19	32	6
DO63315008	E8	A	10	19	32	6
DO63315010	E10	A	12,3	19	32	7,5
DO63315011	E11	A	13	19	32	8
DO63315012	E12	A	14	19	32	8,5
DO63315014	E14	A	16,5	19	32	10
DO63315016	E16	A	18,4	19	32	11

Thin wall sockets are not covered by the Action warranty

3/8" SQUARE DRIVE



6-POINT THIN WALL NORMAL 1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61110006	6	A	10,5	19	30	4
DO61110007	7	A	11,5	19	30	8
DO61110008	8	A	12,5	19	30	8
DO61110009	9	A	14	19	30	8
DO61110010	10	A	15	19	30	8
DO61110011	11	A	17	19	30	9
DO61110012	12	A	17,5	19	30	9
DO61110013	13	B	19	19	30	9
DO61110014	14	B	20	20	30	9

Thin wall sockets are not covered by the Action warranty

6-POINT THIN WALL MAGNETIC 2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61112007	7	A	11,5	19	65	12
DO61112008	8	A	12,5	19	65	12
DO61112009	9	A	14	19	65	12
DO61112010	10	A	15	19	65	25
DO61112011	11	A	17	19	65	25
DO61112012	12	A	17,5	19	65	25
DO61112013	13	B	19	19	65	25
DO61112014	14	B	20	20	65	25
DO61112015	15	A	21	22	65	25
DO61112016	16	C	22,5	22	65	25
DO61112017	17	C	24	22	65	25
DO61112018	18	C	25	22	65	25
DO61112019	19	C	26	22	65	25
DO61112020	20	C	27	22	65	25
DO61112021	21	C	28	22	65	25
DO61112022	22	C	30	23	65	25

Thin wall sockets are not covered by the Action warranty.

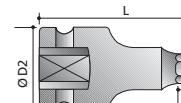
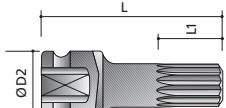
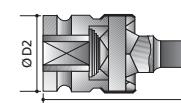
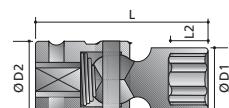
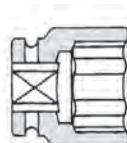
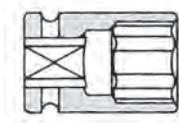
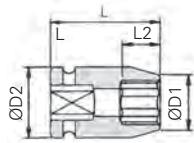
6-POINT UNIVERSAL JOINT 3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO1038-2-009	9	E	15	24	53	9
DO1038-2-010	10	E	15	24	53	9
DO1038-2-011	11	E	17	24	53	9
DO1038-2-012	12	E	19	24	53	12
DO1038-2-013	13	E	19	24	53	13
DO1038-2-014	14	E	21	24	53	13
DO1038-2-015	15	E	22	24	53	13
DO1038-2-016	16	E	23	24	53	13
DO1038-2-017	17	E	25	24	53	13
DO1038-2-018	18	E	25	24	53	13
DO1038-2-019	19	E	27	24	53	13
DO1038-2-020	20	E	30	24	53	13
DO1038-2-021	21	E	30	24	53	13
DO1038-2-022	22	E	32	24	53	13

6-POINT UNIVERSAL JOINT DEEP 4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO1038-4-009	9	E	15	24	78	20
DO1038-4-010	10	E	15	24	78	20
DO1038-4-011	11	E	17	24	80	20
DO1038-4-012	12	E	19	24	80	20
DO1038-4-013	13	E	19	24	80	20
DO1038-4-014	14	E	21	24	80	20
DO1038-4-015	15	E	22	24	80	20
DO1038-4-016	16	E	23	24	80	20
DO1038-4-017	17	E	25	24	80	20
DO1038-4-018	18	E	25	24	80	20
DO1038-4-019	19	E	27	24	80	25
DO1038-4-020	20	E	30	24	80	25
DO1038-4-021	21	E	30	24	80	25
DO1038-4-022	22	E	32	24	80	25

Universal joint sockets are not included in the Action warranty



Drawing A

Drawing B

Drawing C

Drawing E

Drawing L

Drawing N

Drawing P

3/8" SQUARE DRIVE



HEX DRIVER SOCKETS

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	-
Metric							
DO696203A	3	P	19	50	16	-	
DO696204A	4	P	19	50	16	-	
DO696205A	5	P	19	50	16	-	
DO696206A	6	P	19	50	16	-	
DO696207A	7	P	19	50	16	-	
DO696208A	8	P	19	50	16	-	
DO696209A	9	P	19	50	16	-	
DO696210A	10	P	19	50	16	-	
DO696211A	11	P	19	50	16	-	
DO696212A	12	P	19	50	16	-	
DO696213A	13	P	19	50	16	-	
DO696214A	14	P	19	50	16	-	
DO696215A	15	P	19	50	16	-	
DO696216A	16	P	19	50	16	-	

TRIPLE SQUARE

2

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65216005	M5	L	19	50	7	-
DO65216006	M6	L	19	50	7	-
DO65216008	M8	L	19	50	9	-
DO65216010	M10	L	19	50	9	-
DO65216012	M12	L	19	50	11	-
DO65216014	M14	L	19	50	11	-
DO65216016	M16	L	19	50	13	-

TRIPLE SQUARE LONG

3

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65217005	M5	L	19	100	7	-
DO65217006	M6	L	19	100	7	-
DO65217008	M8	L	19	100	9	-
DO65217010	M10	L	19	100	9	-
DO65217012	M12	L	19	100	11	-
DO65217014	M14	L	19	100	11	-
DO65217016	M16	L	19	100	13	-
DO65218005	M5	L	19	120	7	-
DO65218006	M6	L	19	120	7	-
DO65218008	M8	L	19	120	9	-
DO65218010	M10	L	19	120	9	-
DO65218012	M12	L	19	120	11	-
DO65218014	M14	L	19	120	11	-
DO65218016	M14	L	19	120	13	-

HEX DRIVER UNIVERSAL JOINT

4

Type	mm	Drawing	D1 mm	L mm	L2 mm	-
Metric						
DO65110005	5	N	24	60	11	-
DO65110006	6	N	24	60	11	-
DO65110007	7	N	24	60	15	-
DO65110008	8	N	24	60	15	-
DO65110009	9	N	24	60	15	-
DO65110010	10	N	24	60	15	-
DO65110011	11	N	24	60	15	-
DO65110012	12	N	24	60	15	-
DO65110013	13	N	24	60	15	-
DO65110014	14	N	24	60	15	-
DO65110015	15	N	24	60	15	-
DO65110016	16	N	24	60	15	-

Universal joint sockets are not included in the Action warranty

UNIVERSAL JOINT FOR TORX® INTERNAL

5

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO64910020	T20	N	24	60	-	-
DO64910025	T25	N	24	60	-	-
DO64910027	T27	N	24	60	-	-
DO64910030	T30	N	24	60	-	-
DO64910040	T40	N	24	60	-	-
DO64910045	T45	N	24	60	-	-
DO64910047	T47	N	24	60	-	-
DO64910050	T50	N	24	60	-	-
DO64910055	T55	N	24	60	-	-

Universal joint sockets are not included in the Action warranty

UNIVERSAL JOINT FOR TORX® EXTERNAL

6

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO68710005	E5	E	24	50	4,5	-
DO68710006	E6	E	24	50	5	-
DO68710007	E7	E	24	50	6	-
DO68710008	E8	E	24	50	6	-
DO68710010	E10	E	24	50	7,5	-
DO68710012	E12	E	24	50	8,5	-
DO68710014	E14	E	24	50	10	-
DO68710016	E16	E	24	50	11	-

Universal joint sockets are not included in the Action warranty

PIN AND RING

Type

DO1014-0-000



3/8" & 1/2" SQUARE DRIVE



3/8" Drive

RIBE DRIVER

Type	mm	Drawing	D1 mm	L mm	L2 mm	-
Metric						
DO65315005	M5	H	19	50	4,5	-
DO65315006	M6	H	19	50	5	-
DO65315007	M7	H	19	50	6,5	-
DO65315008	M8	H	19	50	7,5	-
DO65315010	M10	H	19	50	9	-
DO65315012	M12	H	19	50	10	-
DO65315014	M14	H	19	50	12	-
DO65315016	M16	H	19	50	14	-

TAP HOLDER

Type	□ A mm	Drawing	Ø D1 mm	Ø D2 mm	Ø d mm	L mm
Metric						
DO65315005	M5	H	19	50	4,5	-
DO65315006	M6	H	19	50	5	-
DO65315007	M7	H	19	50	6,5	-
DO65315008	M8	H	19	50	7,5	-
DO65315010	M10	H	19	50	9	-
DO65315012	M12	H	19	50	10	-
DO65315014	M14	H	19	50	12	-
DO65315016	M16	H	19	50	14	-

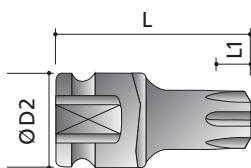
1/2" Drive

4-POINT NORMAL

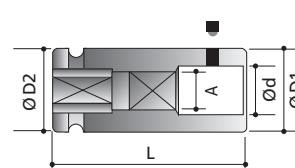
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63125007	7	A	17,5	25	40	8
DO63125008	8	A	19	25	40	9
DO63125010	10	A	21,5	25	40	10
DO63125011	11	A	23	25	40	11
DO63125012	12	A	24	25	40	12
DO63125013	13	A	26	30	40	12
DO63125014	14	A	27,5	30	40	20
DO63125016	16	B	30	30	40	20
DO63125017	17	C	32	30	40	20
DO63125019	19	C	36	30	45	20
DO63125021	21	C	40	30	45	20
DO63125022	22	C	42	30	45	20
DO63125024	24	C	44	30	50	22
DO63125030	30	C	53	30	50	22
DO63125032	32	C	56	30	50	22

8-POINT

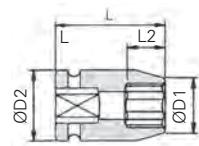
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO2012-8-010	10	A	20	22	38	7
DO2012-8-014	14	B	26	26	38	11
DO2012-8-017	17	B	30	30	38	11
DO2012-8-019	19	B	34	34	40	13
DO2012-8-022	22	B	38	38	40	15
DO2012-8-024	24	B	42	38	45	18
DO2012-8-027	27	B	46,5	46,5	50	19
DO2012-8-028	28	B	49	49	50	19



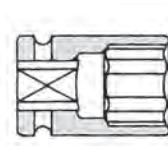
Drawing H



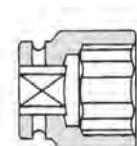
Drawing J



Drawing A



Drawing B



Drawing C

1/2" SQUARE DRIVE



6-POINT NORMAL

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO2012-0-008	8	A	14,5	25	38	9
DO2012-0-009	9	A	16	25	38	12
DO2012-0-010	10	A	17	25	38	12
DO2012-0-011	11	A	19	25	38	12
DO2012-0-012	12	A	20	24	38	12
DO2012-0-013	13	A	21	25	38	12
DO2012-0-014	14	A	22	25	38	12
DO2012-0-015	15	A	24	30	38	12
DO2012-0-016	16	A	25	30	38	12
DO2012-0-017	17	A	26	30	38	13
DO2012-0-018	18	A	27,5	30	38	13
DO2012-0-019	19	A	29	30	38	13
DO2012-0-020	20	B	30	30	38	13
DO2012-0-021	21	B	32	30	38	13
DO2012-0-022	22	C	32	30	38	13
DO2012-0-023	23	C	32,5	30	38	13
DO2012-0-024	24	C	35	30	45	20
DO2012-0-025	25	C	36	30	45	20
DO2012-0-026	26	C	37,5	30	45	22
DO2012-0-027	27	C	39	30	50	22
DO2012-0-028	28	C	40	30	50	22
DO2012-0-029	29	C	41	30	50	22
DO2012-0-030	30	C	42,5	30	50	22
DO2012-0-032	32	C	44	30	50	28
DO2012-0-034	34	C	45	30	50	28
DO2012-0-036	36	C	48	30	50	28
DO2012-0-038	38	C	53	38	50	24
DO2012-0-041	41	C	58	44	60	27
DO2012-0-046	46	C	65	44	70	30
DO2012-0-050	50	C	70	52	70	32

6-POINT NORMAL

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO2012-0-3/8	3/8"	A	16	22	38	12
DO2012-0-7/16	7/16"	A	18	22	38	12
DO2012-0-1/2	1/2"	A	20	22	38	12
DO2012-0-9/16	9/16"	A	22	24	38	12
DO2012-0-5/8	5/8"	B	25	25	38	12
DO2012-0-11/16	11/16"	B	26	26	38	13
DO2012-0-3/4	3/4"	B	28	28	38	13
DO2012-0-13/16	13/16"	B	30	30	38	13
DO2012-0-7/8	7/8"	B	32	32	38	13
DO2012-0-15/16	15/16"	B	34	34	38	13
DO2012-0-1	1"	B	36	36	38	14
DO2012-0-1 1/16	1 1/16"	B	38	38	40	16
DO2012-0-1 1/8	1 1/8"	C	40	38	40	16
DO2012-0-1 3/16	1 3/16"	C	42	38	40	16
DO2012-0-1 1/4	1 1/4"	C	44	38	40	18
DO2012-0-1 3/8	1 3/8"	C	48,5	38	50	26
DO2012-0-1 7/16	1 7/16"	C	50,5	38	50	26
DO2012-0-1 1/2	1 1/2"	C	52,5	38	50	26

6-POINT NORMAL MAGNETIC

2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6052P008	8	A	15	25	38	3
DO6052P009	9	A	16	25	38	4
DO6052P010	10	A	17,5	25	38	4
DO6052P011	11	A	18,5	25	38	5
DO6052P012	12	A	20	25	38	5
DO6052P013	13	A	21	25	38	5
DO6052P014	14	A	22,5	25	38	6
DO6052P015	15	A	23,7	30	38	6
DO6052P016	16	A	25	30	38	6
DO6052P017	17	A	26,5	30	38	6
DO6052P018	18	A	27,5	30	38	7
DO6052P019	19	A	29	30	38	7
DO6052P020	20	B	30	30	38	7
DO6052P021	21	C	31	30	38	8
DO6052P022	22	C	32,5	30	38	8
DO6052P024	24	C	35	30	45	10

6-POINT DEEP

3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO2012-1-008	8	A	14,5	25	78	13
DO2012-1-009	9	A	16	25	78	14
DO2012-1-010	10	A	17	25	78	14
DO2012-1-011	11	A	18	25	78	14
DO2012-1-012	12	A	19,5	25	78	14
DO2012-1-013	13	A	21	25	78	14
DO2012-1-014	14	A	22	25	78	17
DO2012-1-015	15	A	23,5	30	78	17
DO2012-1-016	16	A	23,5	30	78	17
DO2012-1-017	17	A	26	30	78	17
DO2012-1-018	18	A	26	30	78	17
DO2012-1-019	19	A	28	30	78	19
DO2012-1-020	20	B	30,5	30	78	19
DO2012-1-021	21	B	31	30	78	24
DO2012-1-022	22	C	32,5	30	78	24
DO2012-1-023	23	C	32,5	30	78	24
DO2012-1-024	24	C	35	30	78	24
DO2012-1-025	25	C	36	30	78	24
DO2012-1-026	26	C	37,5	30	78	24
DO2012-1-027	27	C	38	30	78	24
DO2012-1-028	28	C	40	30	78	24
DO2012-1-029	29	C	40	30	78	24
DO2012-1-030	30	C	42	30	78	24
DO2012-1-031	31	C	43	30	78	24
DO2012-1-032	32	C	45	30	78	24
DO2012-1-033	33	C	45	30	90	24
DO2012-1-034	34	C	45	30	90	24
DO2012-1-035	35	C	47	30	90	24
DO2012-1-036	36	C	49	30	90	24
DO2012-1-041	41	C	48	44	93	58
DO2012-1-046	46	C	65	44	93	58

1/2" SQUARE DRIVE



6-POINT DEEP

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO2012-1-3/8	7/16"	A	16	22	78	14
DO2012-1-7/16	7/16"	A	18	22	78	14
DO2012-1-1/2	1/2"	A	20	22	78	14
DO2012-1-9/16	9/16"	A	22	24	78	17
DO2012-1-5/8	5/8"	B	26	26	78	17
DO2012-1-11/16	11/16"	B	26	26	78	17
DO2012-1-3/4	3/4"	B	28	28	78	19
DO2012-1-13/16	13/16"	B	30	30	78	24
DO2012-1-7/8	7/8"	B	32	32	78	24
DO2012-1-15/16	15/16"	B	28	28	78	19
DO2012-1-1	1"	B	36	36	78	24
DO2012-1-1/16	1-1/16"	B	38	38	78	24
DO2012-1-1/8	1-1/8"	C	38	38	78	24
DO2012-1-3/16	1-3/16"	C	42	38	78	24
DO2012-1-1/4	1-1/4"	C	44	38	78	24
DO2012-1-5/16	1-5/16"	C	45	38	78	24
DO2012-1-3/8	1-3/8"	C	48,5	38	78	24
DO2012-1-7/16	1-7/16"	C	50,5	38	78	24
DO2012-1-1/2	1-1/2"	C	52,5	38	78	24

6-POINT THIN WALL NORMAL

3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO61120008	8	A	13	25	38	6
DO61120009	9	A	14,5	25	38	6
DO61120010	10	A	15,5	25	38	7
DO61120011	11	A	16,7	25	38	8
DO61120012	12	A	18	25	38	9
DO61120013	13	A	19,2	25	38	9
DO61120014	14	A	21	25	38	11
DO61120015	15	A	21,7	30	38	11
DO61120016	16	A	23	30	38	11
DO61120017	17	B	24	30	38	11
DO61120018	18	B	25	30	38	13
DO61120019	19	B	26	30	38	13
DO61120020	20	B	27,5	30	38	13
DO61120021	21	B	28	30	38	15
DO61120022	22	B	29,5	30	38	15
DO61120023	23	C	30,5	30	38	15
DO61120024	24	C	32	30	45	18
DO61120030	30	C	40	30	50	21

Thin wall sockets are not included in the Action warranty

6-POINT DEEP MAGNETIC

2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6052R008	8	A	15	25	78	3
DO6052R009	9	A	16	25	78	4
DO6052R010	10	A	17,5	25	78	4
DO6052R011	11	A	18,5	25	78	5
DO6052R012	12	A	20	25	78	5
DO6052R013	13	A	21	25	78	5
DO6052R014	14	A	22,5	25	78	6
DO6052R015	15	A	23,7	30	78	6
DO6052R016	16	A	25	30	78	6
DO6052R017	17	A	26,5	30	78	6
DO6052R018	18	A	27,5	30	78	7
DO6052R019	19	A	29	30	78	7
DO6052R020	20	B	30	30	78	7
DO6052R021	21	C	31	30	78	8
DO6052R022	22	C	32,5	30	78	8
DO6052R024	24	C	35	30	78	10

6-POINT THIN WALL DEEP

4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61122008	8	A	14	22	78	13
DO61122009	9	A	14,5	22	78	14
DO61122010	10	A	15,5	22	78	14
DO61122011	11	A	16,7	22	78	14
DO61122012	12	A	18	22	78	14
DO61122013	13	A	19,2	24	78	14
DO61122014	14	A	21	24	78	17
DO61122015	15	A	21,7	24	78	17
DO61122016	16	A	23	24	78	17
DO61122017	17	B	24	24	78	17
DO61122018	18	B	25	25	78	17
DO61122019	19	B	26	26	78	19
DO61122020	20	B	27,5	27,5	78	19
DO61122021	21	B	28	28	78	24
DO61122022	22	B	29,5	29,5	78	24
DO61122023	23	B	30,5	30,5	78	24
DO61122024	24	B	32	32	78	24
DO61122025	25	B	33	33	78	24
DO61122026	26	B	35	35	78	24
DO61122027	27	B	36	36	78	24
DO61122028	28	B	37,5	37,5	78	24
DO61122030	30	C	40	38	78	24
DO61122031	31	C	41	38	78	24
DO61122032	32	C	42	38	78	24

1/2" SQUARE DRIVE



6-POINT L=150

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm	1
Metric							
DO60725008	8	G	15	25	150	10	
DO60725010	10	G	17,5	25	150	12	
DO60725012	12	G	19,5	25	150	12	
DO60725013	13	G	21	25	150	12	
DO60725014	14	G	22,5	25	150	12	
DO60725015	15	G	23,5	30	150	12	
DO60725017	17	G	26	30	150	13	
DO60725019	19	G	28,5	30	150	13	
DO60725020	20	G	30	30	150	13	
DO60725021	21	G	31	30	150	13	
DO60725022	22	G	32	30	150	14	
DO60725024	24	G	34	30	150	14	
DO60725025	25	G	36	30	150	15	

6-POINT L=200

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm	2
Metric							
DO60726008	8	G	15	25	200	10	
DO60726010	10	G	17,5	25	200	12	
DO60726012	12	G	20	25	200	12	
DO60726013	13	G	20	25	200	12	
DO60726014	14	G	21	25	200	12	
DO60726015	15	G	23,5	30	200	12	
DO60726017	17	G	26	30	200	13	
DO60726019	19	G	28,5	30	200	13	
DO60726020	20	G	30	30	200	13	
DO60726021	21	G	31	30	200	13	

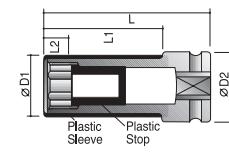
6-POINT L=250

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm	3
Metric							
DO60727008	8	G	15	25	250	10	
DO60727010	10	G	17,5	25	250	12	
DO60727012	12	G	20	25	250	12	
DO60727013	13	G	20,5	25	250	12	
DO60727014	14	G	22,5	25	250	12	
DO60727015	15	G	23,5	30	250	12	
DO60727017	17	G	26	30	250	13	
DO60727019	19	G	28,5	30	250	13	
DO60727020	20	G	30	30	250	13	
DO60727021	21	G	31	30	250	13	
DO60727022	22	G	32	30	250	14	

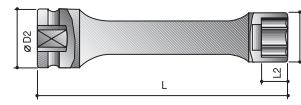
6-POINT THIN WALL DEEP WITH PLASTIC STOP AND SLEEVE 3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm	3
Metric							
DO61126015 (wit)	15	H	22	30	85	13	
DO61126017 (blauw)	17	H	27	30	85	14	
DO61126019 (geel)	19	H	29	30	85	15	
DO61126021 (rood)	21	H	31	30	85	17	
DO61126022 (groen)	22	H	32,5	30	85	18	
DO6112J017 (blauw)	17	H	27	25	130	24	
DO6112J019 (geel)	19	H	29	30	130	24	
DO6112J021 (rood)	21	H	31	30	130	24	
DO6112J022 (groen)	22	H	32,5	30	130	24	

Thin wall sockets are not included in the Action warranty



Drawing H



Drawing G

1/2" SQUARE DRIVE

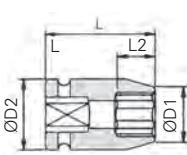


12-POINT NORMAL

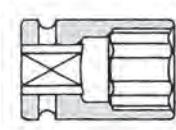
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63825006	6	A	13	25	38	5
DO63825008	8	A	14	25	38	6
DO63825009	9	A	16	25	38	6
DO63825010	10	A	17,5	25	38	7
DO63825011	11	A	19	25	38	8
DO63825012	12	A	20	25	38	9
DO63825013	13	A	21	25	38	9
DO63825014	14	A	22,5	25	38	11
DO63825015	15	A	23,5	30	38	11
DO63825016	16	A	25	30	38	11
DO63825017	17	A	26,5	30	40	11
DO63825018	18	A	27,5	30	40	13
DO63825019	19	A	29	30	40	13
DO63825020	20	B	30	30	40	13
DO63825021	21	C	31	30	40	15
DO63825022	22	C	32,5	30	40	15
DO63825023	23	C	34	30	40	15
DO63825024	24	C	35	30	45	18
DO63825025	25	C	36	30	45	18
DO63825026	26	C	38	30	50	18
DO63825027	27	C	39	30	50	19
DO63825028	28	C	40	30	50	19
DO63825029	29	C	41	30	50	19
DO63825030	30	C	42,5	30	50	21
DO63825032	32	C	44	30	50	22
DO63825033	33	C	46,5	30	50	22
DO63825036	36	C	50,5	30	50	24
DO63825041	41	C	58,5	44	60	27
DO63825046	46	C	65	44	70	30

12-POINT DEEP

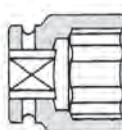
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65827006	6	A	13	25	83	5
DO65827007	7	A	14	25	83	5
DO65827008	8	A	15	25	83	6
DO65827009	9	A	16	25	83	6
DO65827010	10	A	17,5	25	83	7
DO65827011	11	A	19	25	83	8
DO65827012	12	A	20	25	83	9
DO65827013	13	A	21	25	83	9
DO65827014	14	A	22,5	25	83	11
DO65827015	15	A	23,5	30	83	11
DO65827016	16	A	25	30	83	11
DO65827017	17	A	26,5	30	83	11
DO65827018	18	A	27,5	30	83	13
DO65827019	19	A	29	30	83	13
DO65827020	20	B	30	30	83	13
DO65827021	21	C	31	30	83	15
DO65827022	22	C	32,5	30	90	15
DO65827023	23	C	34	30	90	15
DO65827024	24	C	35	30	90	18
DO65827025	25	C	36	30	90	18
DO65827026	26	C	38	30	90	18
DO65827027	27	C	39	30	90	19
DO65827028	28	C	40	30	90	19
DO65827029	29	C	41	30	90	19
DO65827030	30	C	42,5	30	90	21
DO65827031	31	C	44	30	90	21
DO65827032	32	C	45	30	90	22
DO65827033	33	C	46,5	30	90	22
DO65827034	34	C	48	30	90	22
DO65827035	35	C	49,5	30	90	22
DO65827036	36	C	50,5	30	90	24
DO65827038	38	C	53	38	90	24
DO65827039	39	C	54,5	44	93	24
DO65827040	40	C	56	44	93	58
DO65827041	41	C	58	44	93	58
DO65827042	42	C	60	44	93	58
DO65827043	43	C	61	44	93	58
DO65827044	44	C	63	44	93	58
DO65827045	45	C	64	44	93	58
DO65827046	46	C	65	44	93	58
DO65827047	47	C	66,5	44	93	58
DO65827048	48	C	68	44	93	58
DO65827049	49	C	69	44	93	58
DO65827050	50	C	70	52	93	58
DO65827052	52	C	72,5	52	93	58
DO65827054	54	C	75	52	93	58
DO65827056	56	C	77	52	93	58
DO65827057	57	C	78	52	93	58
DO65827058	58	C	79	52	93	58



Drawing A



Drawing B



Drawing C

1/2" SQUARE DRIVE



SURFACE DRIVE NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63425010	10	A	17,5	25	38	12
DO63425011	11	A	18,7	25	38	12
DO63425012	12	A	20	25	38	12
DO63425013	13	A	21	25	38	12
DO63425014	14	A	22,5	25	38	12
DO63425015	15	A	23,7	30	38	12
DO63425016	16	A	25	30	38	12
DO63425017	17	A	26	30	38	13
DO63425018	18	A	27,5	30	38	13
DO63425019	19	A	28,7	30	38	13
DO63425020	20	B	30	30	38	13
DO63425021	21	B	30	30	38	13
DO63425022	22	C	32	30	38	13
DO63425023	23	C	32	30	38	13
DO63425024	24	C	35	30	45	20
DO63425026	26	C	38	30	50	22
DO63425027	27	C	38,7	30	50	22
DO63425029	29	C	40	30	50	22
DO63425030	30	C	42	30	50	22
DO63425032	32	C	44	30	50	22

SURFACE DRIVE DEEP

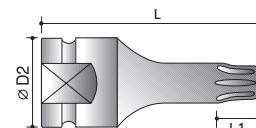
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63427010	10	A	17,5	25	83	14
DO63427011	11	A	18,7	25	83	14
DO63427012	12	A	20	25	83	14
DO63427013	13	A	21	25	83	14
DO63427014	14	A	22,5	25	83	17
DO63427015	15	A	23,7	30	83	17
DO63427016	16	A	25	30	83	17
DO63427017	17	A	26	30	83	17
DO63427018	18	A	27,5	30	83	17
DO63427019	19	A	28,7	30	83	19
DO63427020	20	B	30	30	83	19
DO63427021	21	B	30	30	83	24
DO63427022	22	C	32	30	90	24
DO63427023	23	C	32	30	90	24
DO63427024	24	C	35	30	90	24
DO63427026	26	C	38	30	90	24
DO63427027	27	C	38,7	30	90	24
DO63427029	29	C	40	30	90	24
DO63427030	30	C	42	30	90	24
DO63427032	32	C	44	30	90	24

TORX® INTERNAL

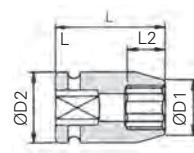
Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO64721020	T20	F	25	2,8	55	-
DO64721025	T25	F	25	3,0	55	-
DO64721027	T27	F	25	3,0	55	-
DO64721030	T30	F	25	3,8	55	-
DO64721040	T40	F	25	3,8	55	-
DO64721045	T45	F	25	4,3	55	-
DO64721047	T47	F	25	5,0	55	-
DO64721050	T50	F	25	5,0	55	-
DO64721055	T55	F	25	5,5	55	-
DO64721060	T60	F	25	8,0	55	-
DO64721070	T70	F	25	9,4	55	-

TORX® INTERNAL LONG

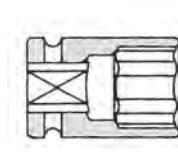
Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO64722020	T20	F	25	2,8	75	-
DO64722025	T25	F	25	3,0	75	-
DO64722027	T27	F	25	3,0	75	-
DO64722030	T30	F	25	3,8	75	-
DO64722040	T40	F	25	3,8	75	-
DO64722045	T45	F	25	4,3	75	-
DO64722047	T47	F	25	5,0	75	-
DO64722050	T50	F	25	5,0	75	-
DO64722055	T55	F	25	5,5	75	-
DO64722060	T60	F	25	8,0	75	-
DO64722070	T70	F	25	9,4	75	-
DO64725025	T25	F	25	3,0	150	-
DO64725027	T27	F	25	3,0	150	-
DO64725030	T30	F	25	3,8	150	-
DO64725040	T40	F	25	3,8	150	-
DO64725045	T45	F	25	4,3	150	-



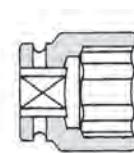
Drawing F



Drawing A



Drawing B



Drawing C

1/2" SQUARE DRIVE



TORX® TAMPER RESISTANT INTERNAL

1

Type		Drawing	D2 mm	L1 mm	L mm	-
DO64726020	T20	F	25	2,8	55	-
DO64726025	T25	F	25	3,0	55	-
DO64726027	T27	F	25	3,0	55	-
DO64726030	T30	F	25	3,8	55	-
DO64726040	T40	F	25	3,8	55	-
DO64726045	T45	F	25	4,3	55	-
DO64726047	T47	F	25	5,0	55	-
DO64726050	T50	F	25	5,0	55	-
DO64726055	T55	F	25	5,5	55	-
DO64726060	T60	F	25	8,0	55	-
DO64726070	T70	F	25	9,4	55	-

TORX® THIN WALL EXTERNAL

4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO63325010	E10	A	13	25	38	7,5
DO63325011	E11	A	14	25	38	8
DO63325012	E12	A	15	25	38	8,5
DO63325014	E14	A	17	25	38	10
DO63325016	E16	A	18,5	25	38	11
DO63325018	E18	A	20,5	25	38	12
DO63325020	E20	A	22,5	30	38	13,5
DO63325022	E22	A	24,5	30	45	18
DO63325024	E24	A	26,5	30	45	18

Thin wall sockets are not included in the Action warranty

TORX® TAMPER RESISTANT INTERNAL LONG

2

Type		Drawing	D2 mm	L1 mm	L mm	-
DO64727020	T20	F	25	2,8	75	-
DO64727025	T25	F	25	3,0	75	-
DO64727027	T27	F	25	3,0	75	-
DO64727030	T30	F	25	3,8	75	-
DO64727040	T40	F	25	3,8	75	-
DO64727045	T45	F	25	4,3	75	-
DO64727047	T47	F	25	5,0	75	-
DO64727050	T50	F	25	5,0	75	-
DO64727055	T55	F	25	5,5	75	-
DO64727060	T60	F	25	8,0	75	-
DO64727070	T70	F	25	9,4	75	-

TORX® EXTERNAL MAGNETIC

5

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6332N010	E10	A	14,5	25	38	5
DO6332N011	E11	A	15	25	38	5
DO6332N012	E12	A	16	25	38	6
DO6332N014	E14	A	18	25	38	8
DO6332N016	E16	A	20	25	38	9
DO6332N018	E18	A	22	25	38	9
DO6332N020	E20	A	25	30	38	10
DO6332N022	E22	A	27	30	45	10
DO6332N024	E24	A	29	30	45	11

Torx® is a trademark of Textron

TORX® EXTERNAL

3

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO63320010	E10	A	15	25	38	7,5
DO63320011	E11	A	15,5	25	38	8
DO63320012	E12	A	16	25	38	8,5
DO63320014	E14	A	18,5	25	38	10
DO63320016	E16	A	20	25	38	11
DO63320018	E18	A	22	25	38	12
DO63320020	E20	A	25	30	38	13,5
DO63320022	E22	A	26,5	30	45	18
DO63320024	E24	A	28,5	30	45	18



1/2" SQUARE DRIVE



6-POINT UNIVERSAL JOINT NORMAL 1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO2012-2-010	10	E	15	28	65	14
DO2012-2-011	11	E	17	28	65	14
DO2012-2-012	12	E	19	28	65	14
DO2012-2-013	13	E	20	28	65	14
DO2012-2-014	14	E	22	28	65	14
DO2012-2-015	15	E	23	28	65	14
DO2012-2-016	16	E	23	28	65	14
DO2012-2-017	17	E	26	32	65	14
DO2012-2-018	18	E	26	32	65	14
DO2012-2-019	19	E	28	32	65	14
DO2012-2-020	20	E	30	32	65	14
DO2012-2-021	21	E	30	32	65	14
DO2012-2-022	22	E	32	32	65	14
DO2012-2-023	23	E	32	32	65	14
DO2012-2-024	24	E	34	32	65	14

Universal joints sockets are not included in the Action warranty

6-POINT UNIVERSAL JOINT DEEP 2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO2012-4-010	10	E	15	28	90	14
DO2012-4-011	11	E	17	28	90	20
DO2012-4-012	12	E	19	28	90	20
DO2012-4-013	13	E	20	28	90	20
DO2012-4-014	14	E	22	28	90	20
DO2012-4-015	15	E	23	28	90	20
DO2012-4-016	16	E	23	28	90	20
DO2012-4-017	17	E	26	32	90	20
DO2012-4-018	18	E	26	32	90	20
DO2012-4-019	19	E	28	32	90	25
DO2012-4-020	20	E	30	32	90	25
DO2012-4-021	21	E	30	32	90	25
DO2012-4-022	22	E	32	32	90	25
DO2012-4-023	23	E	32	32	90	25
DO2012-4-024	24	E	34	32	90	25

Universal joints sockets are not included in the Action warranty

UNIVERSAL JOINT FOR TORX INTERNAL 3

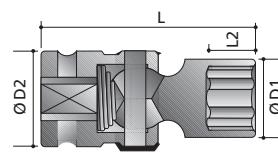
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO64921025	T25	M	28	70	3	-
DO64921027	T27	M	28	70	3	-
DO64921030	T30	M	28	70	3,8	-
DO64921040	T40	M	28	70	3,8	-
DO64921045	T45	M	28	70	4,3	-
DO64921047	T47	M	28	70	5	-
DO64921050	T50	M	28	70	5	-
DO64921055	T55	M	28	70	5,5	-
DO64921060	T60	M	28	70	8	-

Universal joints sockets are not included in the Action warranty

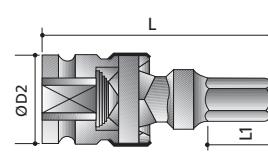
UNIVERSAL JOINT FOR TORX EXTERNAL 4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO68720010	E10	E	13	28	65	7,5
DO68720011	E11	E	14	28	65	8,0
DO68720012	E12	E	15	28	65	8,5
DO68720014	E14	E	17	28	65	10
DO68720016	E16	E	18,5	28	65	11
DO68720018	E18	E	20,5	28	65	12
DO68720020	E20	E	22,5	32	70	13,5
DO68720022	E22	E	24,5	32	70	15
DO68720024	E24	E	26,5	32	70	17

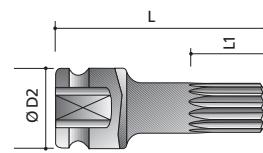
Universal joints sockets are not included in the Action warranty



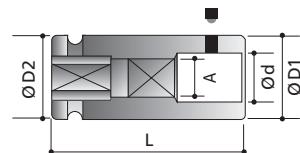
Drawing E



Drawing M



Drawing L



Drawing P

1/2" SQUARE DRIVE



HEX DRIVER

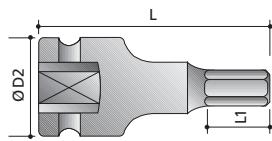
1

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO696304A	4	K	25	75	11	-
DO696305A	5	K	25	75	15	-
DO696306A	6	K	25	75	15	-
DO696307A	7	K	25	75	15	-
DO696308A	8	K	25	75	16	-
DO696309A	9	K	25	75	16	-
DO696310A	10	K	25	75	16	-
DO696311A	11	K	25	75	16	-
DO696312A	12	K	25	75	16	-
DO696313A	13	K	25	75	16	-
DO696314A	14	K	25	75	16	-
DO696315A	15	K	25	75	16	-
DO696316A	16	K	25	75	16	-
DO696317A	17	K	30	75	16	-
DO696319A	19	K	30	75	16	-
DO696321A	21	K	30	75	16	-
DO696322A	22	K	30	75	16	-
DO696324A	24	K	30	75	16	-
DO64827006	6	K	25	100	15	-
DO64828006	6	K	25	125	15	-
DO64827008	8	K	25	100	16	-
DO64828008	8	K	25	125	16	-
DO64827010	10	K	25	100	16	-
DO64828010	10	K	25	125	16	-
DO64827012	12	K	25	100	16	-
DO64827014	14	K	25	100	16	-

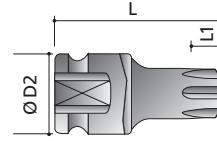
TAP HOLDER

2

Type	A mm	IMG	\varnothing D1 mm	\varnothing D2 mm	\varnothing d mm	L mm
Metric						
DO6322B001	3,4	P	22	22	4,5	40
DO6322B002	4,9	P	22	22	6,0	45
DO6322B003	5,5	P	22	22	7,0	45
DO6322B004	6,2	P	22	22	8,0	45
DO6322B005	7,0	P	22	22	9,0	45
DO6322B006	8,0	P	22	22	10,0	45
DO6322B007	9,0	P	22	22	11,0	45
DO6322B008	9,0	P	22	22	12,0	50
DO6322B009	11,0	P	22	22	14,0	52



Drawing K



Drawing H

TRIPLE SQUARE BIT NORMAL

3

Type		Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65226005	M5	L	25	55	7	-
DO65226006	M6	L	25	55	7	-
DO65226008	M8	L	25	55	9	-
DO65226010	M10	L	25	55	9	-
DO65226012	M12	L	25	55	11	-
DO65226014	M14	L	25	55	11	-
DO65226016	M16	L	25	55	13	-

TRIPLE SQUARE BIT LONG

4

Type		Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65227005	M5	L	25	100	7	-
DO65227006	M6	L	25	100	7	-
DO65227008	M8	L	25	100	9	-
DO65227010	M10	L	25	100	9	-
DO65227012	M12	L	25	100	11	-
DO65227014	M14	L	25	100	11	-
DO65227016	M16	L	25	100	13	-
DO65227018	M18	L	25	100	13	-

TRIPLE SQUARE BIT EXTRA LONG

4

Type		Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65228008	M8	L	25	120	9	-
DO65228010	M10	L	25	120	9	-
DO65228012	M12	L	25	120	11	-
DO65228018	M18	L	25	120	14	-

RIBE DRIVER

5

Type		Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65326006	M6	H	25	55	5	-
DO65326007	M7	H	25	55	6,5	-
DO65326008	M8	H	25	55	7,5	-
DO65326010	M10	H	25	55	9	-
DO65326012	M12	H	25	55	10	-
DO65326014	M14	H	25	55	12	-
DO65326016	M16	H	25	55	14	-
DO65326018	M18	H	25	55	16	-

1/2" SQUARE DRIVE



HEX DRIVER WITH UNIVERSAL JOINT

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65121006	6	M	28	75	13	-
DO65121007	7	M	28	75	13	-
DO65121008	8	M	28	75	20	-
DO65121009	9	M	28	75	20	-
DO65121010	10	M	28	75	20	-
DO65121011	11	M	28	75	20	-
DO65121012	12	M	28	75	20	-
DO65121013	13	M	28	75	20	-
DO65121014	14	M	28	75	20	-
DO65121015	15	M	28	75	20	-
DO65121016	16	M	28	75	20	-
DO65121017	17	M	28	75	20	-
DO65121018	18	M	28	75	20	-
DO65121019	19	M	28	75	20	-

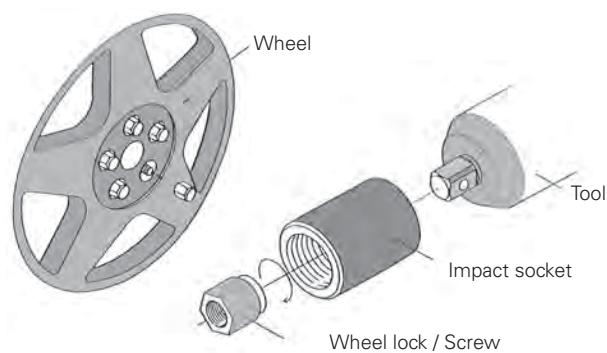
1

WHEEL LUG NUT REMOVER SOCKETS

Type	mm	Drawing	D1 mm	D2 mm	L mm	L1 mm
DO69782090	17	R	24	24	38	17
DO69782091	18,5	R	25	25	38	17
DO69782092	20	R	26	26	38	22
DO69782093	21,5	R	28,5	28,5	38	22
DO69782094	23	R	30	30	38	22
DO69782095	24,5	R	31	31	38	22
DO69782096	26	R	32	32	38	22

2

APPLICATION WHEEL LUG NUT REMOVER SOCKETS

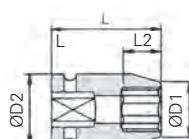


STUD BOLT SETTERS

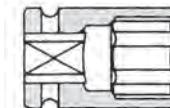
Type	SW	D1 mm	D2 mm	L mm
DO69782010	M6 x 1,0	13	25	55
DO69782017	M8 x 1,0	15	25	55
DO69782018	M8 x 1,25	15	25	55
DO69782020	M10 x 1,0	18	25	55
DO69782021	M10 x 1,25	18	25	55
DO69782022	M10 x 1,5	17	25	55
DO69782025	M12 x 1,25	19	25	55
DO69782026	M12 x 1,5	19	25	55
DO69782027	M12 x 1,75	19	25	55
DO69782030	M14 x 1,5	23	25	55
DO69782031	M14 x 2,0	22	25	55
DO69782034	M16 x 1,5	28	30	75
DO69782035	M16 x 2,0	27	30	75
DO69782036	M18 x 1,5	29,5	30	75
DO69782038	M18 x 2,5	29	30	75
DO69782040	M20 x 1,5	30	30	75
DO69782041	M20 x 2,5	30	30	75



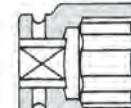
This wheel lug nut remover is used when it is discovered that the original key to remove your car wheel is lost. In order to remove the lock and the wheel, these sockets can be used. Proper use of the socket is to have at least three windings of thread of the socket gripping over the lock. In case any of the first three windings are already gripping, the next bigger size of socket should be chosen. When the correct size of socket is chosen, it can unlock up to four bolts.



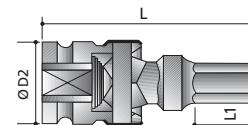
Drawing A



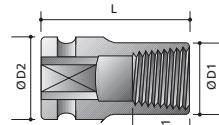
Drawing B



Drawing C



Drawing M



Drawing R

ACCESSORIES

Pin and ring
DO1014-0-000





**RED
ROOSTER**

DE ROTTERDAMSE VOL. NL 5211 AE AMSTERDAM



**RED
ROOSTER**
LEADING IN AIR POWER TOOL EXPERTISE

20V 2.0Ah Li-ion

3/4" SQUARE DRIVE



4-POINT NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63045016	16	B	40	40	52	24
DO63045017	17	B	40	40	52	24
DO63045019	19	B	40	40	52	24
DO63045020	20	B	42	42	52	24
DO63045021	21	B	42	42	52	24
DO63045022	22	B	44	44	52	24
DO63045024	24	C	47	44	52	24

1

6-POINT NORMAL (CONTINUED)

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO3034-0-056	56	C	80	54	74	35
DO3034-0-057	57	C	84	54	74	35
DO3034-0-060	60	C	84	54	75	37
DO3034-0-063	63	C	86	54	75	37
DO3034-0-065	65	C	88	54	78	40
DO3034-0-067	67	C	90	54	80	40
DO3034-0-070	70	C	96	54	80	40
DO3034-0-075	75	C	102	64	83	42

2

6-POINT NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO3034-0-013	13	A	25	44	50	9
DO3034-0-014	14	A	25	44	50	11
DO3034-0-015	15	A	26	44	50	11
DO3034-0-016	16	A	27	44	50	11
DO3034-0-017	17	A	31	44	50	12
DO3034-0-018	18	A	32	44	50	13
DO3034-0-019	19	A	33	44	50	13
DO3034-0-020	20	A	34	44	50	14
DO3034-0-021	21	A	35	44	50	15
DO3034-0-022	22	A	37	44	50	15
DO3034-0-023	23	A	38	44	50	16
DO3034-0-024	24	A	40	44	50	16
DO3034-0-025	25	A	40	44	50	16
DO3034-0-026	26	A	41	44	50	16
DO3034-0-027	27	A	43	44	54	19
DO3034-0-028	28	B	44	44	54	19
DO3034-0-029	29	C	45	44	54	21
DO3034-0-030	30	C	47	44	54	21
DO3034-0-031	31	C	48	44	56	21
DO3034-0-032	32	C	49	44	56	22
DO3034-0-033	33	C	51	44	56	22
DO3034-0-034	34	C	52	44	56	22
DO3034-0-035	35	C	53	44	56	22
DO3034-0-036	36	C	54	44	56	25
DO3034-0-037	37	C	56	44	58	25
DO3034-0-038	38	C	57	44	58	25
DO3034-0-039	39	C	58	44	58	25
DO3034-0-040	40	C	58	44	58	25
DO3034-0-041	41	C	60	44	58	27
DO3034-0-042	42	C	62	44	58	27
DO3034-0-043	43	C	63	44	63	27
DO3034-0-044	44	C	65	44	63	27
DO3034-0-045	45	C	66	44	63	27
DO3034-0-046	46	C	67	44	63	30
DO3034-0-047	47	C	68	44	68	30
DO3034-0-049	49	C	70	44	70	30
DO3034-0-050	50	C	71	54	72	32
DO3034-0-055	55	C	77	54	74	35

2

6-POINT NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO3034-0-11/16	11/16"	A	29	38	50	12
DO3034-0-3/4	3/4"	A	30	38	50	14
DO3034-0-13/16	13/16"	A	32	38	52	16
DO3034-0-7/8	7/8"	A	34	38	52	16
DO3034-0-15/16	15/16"	A	36	38	52	16
DO3034-0-1 1/8	1 1/8"	B	42	42	52	20
DO3034-0-1 3/16	1 3/16"	B	44	44	52	20
DO3034-0-1 1/4	1 1/4"	B	44	44	52	20
DO3034-0-1	1"	C	40	38	52	16
DO3034-0-1 1/16	1 1/16"	C	40	38	52	16
DO3034-0-1 5/16	1 5/16"	C	47	44	56	23
DO3034-0-1 3/8	1 3/8"	C	50	44	56	23
DO3034-0-1 7/16	1 7/16"	C	51	44	56	23
DO3034-0-1 1 1/2	1 1/2"	C	53	44	56	23
DO3034-0-1 3/4	1 3/4"	C	65	44	62	27
DO3034-0-1 13/16	1 13/16"	C	67	44	56	32

3

STUD BOLT SETTERS

Type	SW	D1 mm	D2 mm	L mm
DO69784162	M16 x 2	29	44	100
DO69784203	M20 x 2,5	35	44	100
DO69784241	M24 x 1,5	37	44	100
DO69784244	M24 x 3	37	44	100
DO69784285	M28 x 3,5	42	44	100
DO69784305	M30 x 3,5	43	44	100



3/4" SQUARE DRIVE



6-POINT DEEP

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO3034-1-013	13	A	25	44	95	13
DO3034-1-014	14	A	25	44	95	14
DO3034-1-015	15	A	26	44	95	15
DO3034-1-017	17	A	31	44	95	17
DO3034-1-018	18	A	32	44	95	18
DO3034-1-019	19	A	33	44	95	19
DO3034-1-020	20	A	34	44	95	20
DO3034-1-021	21	A	35	44	95	21
DO3034-1-022	22	A	37	44	95	22
DO3034-1-023	23	A	38	44	95	23
DO3034-1-024	24	A	39,5	44	95	24
DO3034-1-025	25	A	40	44	95	25
DO3034-1-026	26	A	41	44	95	26
DO3034-1-027	27	A	43	44	95	27
DO3034-1-028	28	B	44	44	95	28
DO3034-1-029	29	C	45	44	95	29
DO3034-1-030	30	C	47	44	95	30
DO3034-1-031	31	C	48	44	95	31
DO3034-1-032	32	C	49	44	95	32
DO3034-1-033	33	C	51	44	95	33
DO3034-1-034	34	C	52	44	95	34
DO3034-1-035	35	C	53	44	95	35
DO3034-1-036	36	C	54	44	95	36
DO3034-1-037	37	C	56	44	95	37
DO3034-1-038	38	C	57	44	95	38
DO3034-1-039	39	C	58	44	95	38
DO3034-1-040	40	C	58	44	95	38
DO3034-1-041	41	C	60	44	95	38
DO3034-1-042	42	C	62	44	95	38
DO3034-1-043	43	C	63	44	95	38
DO3034-1-044	44	C	65	44	95	38
DO3034-1-046	46	C	67	44	95	38
DO3034-1-047	47	C	68	44	95	38
DO3034-1-048	48	C	69	44	95	38
DO3034-1-049	49	C	70	44	95	38
DO3034-1-050	50	C	71	54	95	38
DO3034-1-052	52	C	74	54	95	40
DO3034-1-055	55	C	77	54	100	40
DO3034-1-060	60	C	84	54	105	42
DO3034-1-065	65	C	88	54	105	66

6-POINT DEEP

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO3034-1-13/16	13/16"	A	32	38	85	23
DO3034-1-7/8	7/8"	A	34	38	85	23
DO3034-1-15/16	15/16"	A	36	38	85	41
DO3034-1-1	1"	C	40	38	85	41
DO3034-1-1 1/8	1 1/8"	B	42	42	85	52
DO3034-1-1 3/16	1 3/16"	B	44	44	85	52
DO3034-1-1 1/4	1 1/4"	B	44	44	85	52
DO3034-1-1 5/16	1 5/16"	C	47	44	85	52
DO3034-1-1 7/16	1 7/16"	C	51	44	85	52
DO3034-1-1 1/2	1 1/2"	C	53	44	85	60

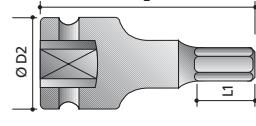
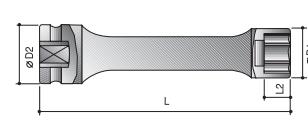
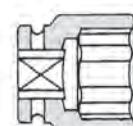
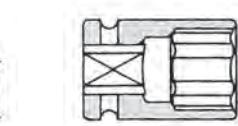
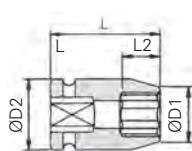
6-POINT EXTRA LONG

2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61145024	24	G	38,5	44	270	24
DO61145027	27	G	42	44	270	27
DO61145030	30	G	45	44	270	30
DO61145032	32	G	47	44	270	32
DO61145033	33	G	48	44	270	32
DO61145036	36	G	53,5	44	270	32
DO61145046	46	G	63	44	270	38
Inch						
DO61146024	24	G	38,5	44	400	24
DO61146027	27	G	42	44	400	27
DO61146030	30	G	45	44	400	30
DO61146032	32	G	47	44	400	32
DO61146033	33	G	48	44	400	32
DO61146036	36	G	53,5	44	400	32

ACCESSORIES

Pin & ring
DO1034-0-000



Drawing A

Drawing B

Drawing C

Drawing G

Drawing K

3/4" SQUARE DRIVE



6-POINT THIN WALL DEEP

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61141017	17	A	25,5	44	95	17
DO61141019	19	A	28,5	44	95	19
DO61141022	22	A	33,5	44	95	22
DO61141024	24	A	36,5	44	95	24
DO61141027	27	A	40,5	44	95	27
DO61141030	30	A	43,5	44	95	30
DO61141032	32	B	46,5	44	95	32
DO61141033	33	B	47,5	44	95	33
DO61141036	36	B	52	44	95	36
DO61141038	38	B	54	44	95	38
DO61141041	41	B	57	44	95	38

Thin wall sockets are not included in the Action warranty.

6-POINT EXTREME THIN WALL DEEP

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61142027	27	A	40	43	108	43
DO61142032	32	B	45	45	108	43
DO61142041	41	C	54,5	45	108	43

Thin wall sockets are not included in the Action warranty.

HEX DRIVER

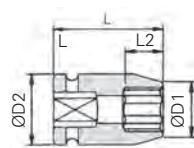
2

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO696510A	10	K	44	100	20	-
DO696512A	12	K	44	100	20	-
DO696514A	14	K	44	100	20	-
DO696517A	17	K	44	100	20	-
DO696519A	19	K	44	100	20	-
DO696522A	22	K	44	100	20	-
DO696524A	24	K	44	100	20	-
DO696527A	27	K	44	100	20	-
DO696530A	30	K	44	100	20	-
DO696532A	32	K	44	100	20	-
DO696536A	36	K	44	100	20	-

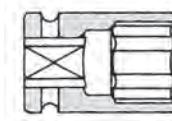
8-POINT

3

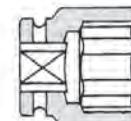
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63645019	19	B	41	41	52	15
DO63645024	24	C	46	44,5	52	20
DO63645027	27	C	53	44,5	56	24
DO63645030	30	C	60	44,5	60	28
DO63645032	32	C	60	44,5	60	28
DO63645038	38	C	70	44,5	64	32



Drawing A



Drawing B



Drawing C

3/4" SQUARE DRIVE



12-POINT DEEP

1

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65847013	13	A	24,5	44	95	13
DO65847014	14	A	25,5	44	95	14
DO65847015	15	A	27	44	95	15
DO65847016	16	A	28	44	95	16
DO65847017	17	A	29,5	44	95	17
DO65847018	18	A	31	44	95	18
DO65847019	19	A	32	44	95	19
DO65847020	20	A	34	44	95	20
DO65847021	21	A	35	44	95	21
DO65847022	22	A	37	44	95	22
DO65847023	23	A	38	44	95	23
DO65847024	24	A	39	44	95	24
DO65847025	25	A	41	44	95	25
DO65847026	26	A	42	44	95	26
DO65847027	27	A	43	44	95	27
DO65847028	28	B	44	44	95	28
DO65847029	29	C	46	44	95	29
DO65847030	30	C	47	44	95	30
DO65847031	31	C	48	44	95	31
DO65847032	32	C	49	44	95	32
DO65847033	33	C	51	44	95	33
DO65847034	34	C	52	44	95	34
DO65847035	35	C	53	44	95	35
DO65847036	36	C	54	44	95	36
DO65847037	37	C	56	44	95	37
DO65847038	38	C	57	44	95	38
DO65847039	39	C	58	44	95	38
DO65847040	40	C	59,5	44	95	38
DO65847041	41	C	61	44	95	38
DO65847042	42	C	62	44	95	38
DO65847043	43	C	63,5	44	95	38
DO65847044	44	C	64,5	44	95	38
DO65847045	45	C	65,5	44	95	38
DO65847046	46	C	66,5	44	100	38
DO65847047	47	C	68	44	100	38
DO65847048	48	C	69	44	100	38
DO65847049	49	C	70	44	100	38
DO65847050	50	C	71	54	100	38
DO65847051	51	C	72	54	100	40
DO65847052	52	C	74	54	100	40
DO65847053	53	C	75	54	100	40
DO65847054	54	C	77	54	100	40
DO65847055	55	C	78	54	105	40
DO65847056	56	C	79	54	105	40
DO65847057	57	C	80	54	105	40
DO65847058	58	C	81	54	105	40

12-POINT DEEP (CONTINUED)

2

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65847060	60	C	84	54	105	42
DO65847063	63	C	87	54	105	42
DO65847065	65	C	90	54	105	66
DO65847067	67	C	92	54	105	66
DO65847068	68	C	94	54	105	66
DO65847070	70	C	96	54	105	66
DO65847073	73	C	100	54	108	66
DO65847075	75	C	102	64	108	68

TORX® INTERNAL

3

Type		Drawing	D mm	L mm	L1 mm	-
DO64742050	T50	F	44	100	5,0	-
DO64742055	T55	F	44	100	5,5	-
DO64742060	T60	F	44	100	8,0	-
DO64742070	T70	F	44	100	9,4	-
DO64742080	T80	F	44	100	10,5	-
DO64742090	T90	F	44	100	11,8	-
DO64742100	T100	F	44	100	13,1	-

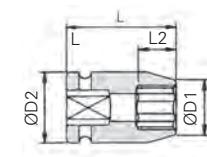
Torx® is a trademark of Textron.

TORX® EXTERNAL

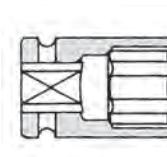
4

Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
DO63340018	E18	A	25	44	56	12,5
DO63340020	E20	A	27	44	56	14
DO63340024	E24	A	33	44	56	16,5
DO63340032	E32	A	44	44	56	24,5

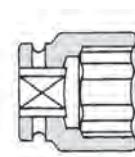
Torx® is a trademark of Textron.



Drawing A



Drawing B



Drawing C

1" SQUARE DRIVE



4-POINT NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63055017	17	B	52	52	57	24
DO63055019	19	B	52	52	57	24
DO63055020	20	B	52	52	57	24
DO63055021	21	B	52	52	57	24

6-POINT NORMAL

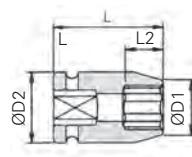
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO4010-0-017	17	A	34	54	60	12
DO4010-0-018	18	A	35	54	60	13
DO4010-0-019	19	A	35,5	54	60	13
DO4010-0-020	20	A	37	54	60	14
DO4010-0-021	21	A	38	54	60	15
DO4010-0-022	22	A	40	54	60	15
DO4010-0-023	23	A	41	54	60	16
DO4010-0-024	24	A	42	54	60	18
DO4010-0-025	25	A	43	54	60	18
DO4010-0-026	26	A	44,5	54	60	18
DO4010-0-027	27	A	46	54	60	19
DO4010-0-028	28	A	47	54	62	19
DO4010-0-029	29	A	48	54	62	19
DO4010-0-030	30	A	50	54	62	21
DO4010-0-031	31	A	51	54	62	21
DO4010-0-032	32	A	52	54	62	22
DO4010-0-033	33	A	53	54	62	22
DO4010-0-034	34	C	55	54	62	22
DO4010-0-035	35	C	56	54	65	22
DO4010-0-036	36	C	57	54	67	25
DO4010-0-037	37	C	59	54	67	25
DO4010-0-038	38	C	59,5	54	67	25
DO4010-0-039	39	C	60	54	70	25
DO4010-0-040	40	C	62	54	70	25
DO4010-0-041	41	C	64	54	70	27
DO4010-0-042	42	C	65	54	74	27
DO4010-0-043	43	C	66	54	74	27
DO4010-0-045	45	C	68	54	74	27
DO4010-0-046	46	C	69,5	54	76	30
DO4010-0-047	47	C	72	54	76	32
DO4010-0-048	48	C	73	54	76	32
DO4010-0-050	50	C	74	54	80	35
DO4010-0-052	52	C	77	54	84	35
DO4010-0-053	53	C	78	54	84	35
DO4010-0-054	54	C	79	54	84	35
DO4010-0-055	55	C	81	54	84	35

6-POINT NORMAL (CONTINUED)

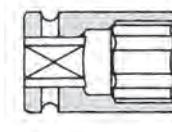
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Metric						
DO4010-0-056	56	C	83	54	84	40
DO4010-0-057	57	C	84	54	84	40
DO4010-0-058	58	C	85	54	87	40
DO4010-0-060	60	C	87	54	87	42
DO4010-0-062	62	C	89	54	87	42
DO4010-0-063	63	C	90	54	87	42
DO4010-0-065	65	C	93	54	90	42
DO4010-0-070	70	C	100	54	96	42
DO4010-0-075	75	C	106	86	98	45
DO4010-0-080	80	C	112	86	100	48
DO4010-0-085	85	C	118	86	105	52
DO4010-0-090	90	C	125	86	105	52
DO4010-0-095	95	C	131	86	115	52
DO4010-0-100	100	C	137	95	115	58
DO4010-0-105	105	C	143	95	115	58

6-POINT NORMAL

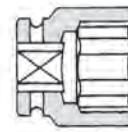
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch					
DO4010-0-1	1"	A	42	51	58
DO4010-0-1 1/8	1 1/8"	A	46	51	58
DO4010-0-1 5/16	1 5/16"	C	53	52	62
DO4010-0-1 7/16	1 7/16"	C	56	52	62
DO4010-0-1 1 1/2	1 1/2"	C	58	52	62
DO4010-0-1 11/16	1 11/16"	C	65	52	64
DO4010-0-1 7/8	1 7/8"	C	70	58	66
DO4010-0-2 1/16	2 1/16"	C	75	58	70
DO4010-0-2 1/4	2 1/4"	C	84	62	75
DO4010-0-2 7/16	2 7/16"	C	89	62	78
DO4010-0-2 1/2	2 1/2"	C	91	62	80
DO4010-0-2 7/8	2 7/8"	C	102	62	87



Drawing A



Drawing B



Drawing C

1" SQUARE DRIVE



6-POINT DEEP

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO4010-1-017	17	A	34	54	100	17
DO4010-1-018	18	A	34	54	100	18
DO4010-1-019	19	A	35,5	54	100	19
DO4010-1-020	20	A	36,5	54	100	20
DO4010-1-021	21	A	37,5	54	100	21
DO4010-1-022	22	A	40	54	100	22
DO4010-1-023	23	A	41	54	100	23
DO4010-1-024	24	A	42	54	100	24
DO4010-1-025	25	A	43	54	100	25
DO4010-1-026	26	A	44,5	54	100	26
DO4010-1-027	27	A	46	54	100	27
DO4010-1-028	28	A	47	54	100	28
DO4010-1-029	29	A	48	54	100	29
DO4010-1-030	30	A	50	54	100	30
DO4010-1-031	31	A	51	54	100	31
DO4010-1-032	32	A	52	54	100	32
DO4010-1-033	33	A	53	53	100	33
DO4010-1-034	34	C	55	54	100	34
DO4010-1-035	35	C	56	54	100	35
DO4010-1-036	36	C	57	54	100	36
DO4010-1-037	37	C	57	54	100	37
DO4010-1-038	38	C	59,5	54	100	38
DO4010-1-039	39	C	61	54	100	38
DO4010-1-040	40	C	62	54	100	38
DO4010-1-041	41	C	64	54	100	38
DO4010-1-042	42	C	65	54	100	38
DO4010-1-046	46	C	69,5	54	100	38
DO4010-1-047	47	C	71,5	54	100	38
DO4010-1-048	48	C	72,5	54	100	38
DO4010-1-050	50	C	75	54	100	38
DO4010-1-054	54	C	80	54	100	40
DO4010-1-055	55	C	81	54	100	40
DO4010-1-056	56	C	82	54	105	40
DO4010-1-058	58	C	85	54	105	40
DO4010-1-060	60	C	87	54	120	42
DO4010-1-065	65	C	93	54	125	42
DO4010-1-070	70	C	100	54	125	42
DO4010-1-075	75	C	106	86	135	45
DO4010-1-080	80	C	112	86	135	48
DO4010-1-085	85	C	118	86	140	52
DO4010-1-090	90	C	125	86	140	52
DO4010-1-095	95	C	131	86	140	52
DO4010-1-100	100	C	137	95	140	58
DO4010-1-105	105	C	143	95	155	58
DO4010-1-110	110	C	149	95	155	60
DO4010-1-115	115	C	155	95	155	62

6-POINT DEEP

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Inch						
DO4010-1-15/16	15/16"	A	40	51	90	21
DO4010-1-1	1"	A	42	51	90	25
DO4010-1-1 1/16	1 1/16"	A	44	51	90	23
DO4010-1-1 3/16	1 3/16"	A	48	51	90	40
DO4010-1-1 5/16	1 5/16"	C	53	52	90	40
DO4010-1-1 1/2	1 1/2"	C	58	52	92	54

6-POINT THIN WALL DEEP

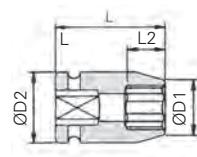
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Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO61151019	19	A	33	54	100	19
DO61151024	24	A	38	54	100	24
DO61151027	27	A	42,5	54	100	27
DO61151028	28	A	43	54	100	28
DO61151030	30	A	45	54	100	30
DO61151032	32	A	47	54	100	32
DO61151033	33	A	49	54	100	33
DO61151036	36	A	52	54	100	36
DO61151041	41	C	57	54	100	38

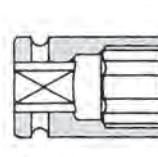
6-POINT EXTRA DEEP

2

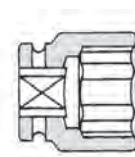
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60559024	24	B	42	54	270	24
DO60559027	27	B	45	54	270	27
DO60559030	30	B	50	54	270	30
DO60559032	32	B	52	54	270	32
DO60559033	33	B	52	54	270	32
DO60559036	36	B	57	54	270	36
DO6115H032	32	B	48,5	54	400	32
DO6115H033	33	B	50	54	400	32



Drawing A



Drawing B



Drawing C

1" SQUARE DRIVE



8-POINT NORMAL

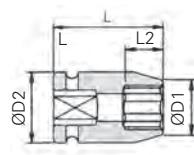
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63655019	19	A	45	54	60	13
DO63655024	24	A	52	54	60	18
DO63655027	27	C	56,5	54	60	19
DO63655030	30	C	61	54	62	21
DO63655032	32	C	64	54	62	22
DO63655035	35	C	68,5	58	65	22
DO63655038	38	C	73	58	67	24
DO63655046	46	C	86	62	76	30

12-POINT NORMAL (CONTINUED)

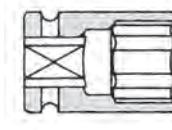
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65855016	16	A	32	54	60	11
DO65855017	17	A	34	54	60	11
DO65855018	18	A	35	54	60	13
DO65855019	19	A	36	54	60	13
DO65855020	20	A	37	54	60	13
DO65855021	21	A	38	54	60	15
DO65855022	22	A	39	54	60	15
DO65855023	23	A	40	54	60	15
DO65855024	24	A	41	54	60	18
DO65855025	25	A	43	54	60	18
DO65855026	26	A	44,5	54	60	18
DO65855027	27	A	45	54	60	19
DO65855028	28	A	46,5	54	62	19
DO65855029	29	A	48	54	62	19
DO65855030	30	A	50	54	62	21
DO65855031	31	A	51	54	62	21
DO65855032	32	A	52	54	62	22
DO65855033	33	A	53	54	62	22
DO65855034	34	C	55	54	62	22
DO65855035	35	C	56	54	65	22
DO65855036	36	C	57	54	67	24
DO65855037	37	C	59	54	67	24
DO65855038	38	C	60	54	67	24
DO65855039	39	C	61	54	70	24
DO65855040	40	C	62	54	70	24
DO65855041	41	C	63,5	54	70	27
DO65855042	42	C	65	54	74	27
DO65855043	43	C	66	54	74	27
DO65855044	44	C	67	54	74	27
DO65855045	45	C	68	54	74	27
DO65855046	46	C	70	58	76	30

12-POINT NORMAL (CONTINUED)

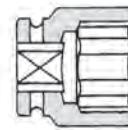
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO65855047	47	C	71,5	58	76	30
DO65855048	48	C	72,5	58	76	30
DO65855050	50	C	75	62	80	32
DO65855051	51	C	76	62	80	32
DO65855052	52	C	77	62	84	32
DO65855053	53	C	78	62	84	32
DO65855054	54	C	80	62	84	32
DO65855055	55	C	81	62	84	35
DO65855056	56	C	82	62	84	35
DO65855057	57	C	84	62	84	35
DO65855058	58	C	85	62	87	37
DO65855060	60	C	87	62	87	37
DO65855062	62	C	89	62	87	37
DO65855063	63	C	90	62	87	37
DO65855065	65	C	93	62	90	40
DO65855067	67	C	96	62	92	40
DO65855070	70	C	100	62	96	40
DO65855075	75	C	106	86	98	42
DO65855076	76	C	107	86	100	45
DO65855077	77	C	109	86	100	45
DO65855078	78	C	110	86	100	45
DO65855080	80	C	112	86	100	45
DO65855085	85	C	118	86	105	52
DO65855090	90	C	125	86	105	52
DO65855095	95	C	131	86	105	52
DO65855100	100	C	137	86	110	58
DO65855105	105	C	143	95	110	58
DO65855110	110	C	149	95	115	62
DO65855115	115	C	155	95	115	62



Drawing A



Drawing B



Drawing C

1" SQUARE DRIVE

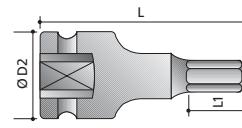


12-POINT DEEP							1
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric							
DO65857016	16	A	32	54	100	11	
DO65857017	17	A	34	54	100	11	
DO65857018	18	A	35	54	100	13	
DO65857019	19	A	36	54	100	13	
DO65857020	20	A	37	54	100	13	
DO65857021	21	A	38	54	100	15	
DO65857022	22	A	39	54	100	15	
DO65857023	23	A	40	54	100	15	
DO65857024	24	A	41	54	100	18	
DO65857025	25	A	43	54	100	18	
DO65857026	26	A	44,5	54	100	18	
DO65857027	27	A	45	54	100	19	
DO65857028	28	A	46,5	54	100	19	
DO65857029	29	A	48	54	100	19	
DO65857030	30	A	50	54	100	21	
DO65857031	31	A	51	54	100	21	
DO65857032	32	A	52	54	100	22	
DO65857033	33	A	53	54	100	22	
DO65857034	34	C	55	54	100	22	
DO65857035	35	C	56	54	100	22	
DO65857036	36	C	57	54	100	24	
DO65857037	37	C	59	54	100	24	
DO65857038	38	C	60	54	100	24	
DO65857039	39	C	61	54	100	24	
DO65857040	40	C	62	54	100	24	
DO65857041	41	C	63,5	54	100	27	
DO65857042	42	C	65	54	100	27	
DO65857043	43	C	66	54	100	27	
DO65857044	44	C	67	54	100	27	
DO65857045	45	C	68	54	100	27	
DO65857046	46	C	70	58	100	30	
DO65857047	47	C	71,5	58	100	30	
DO65857048	48	C	72,5	58	100	30	
DO65857050	50	C	75	62	100	32	
DO65857051	51	C	76	62	100	32	
DO65857052	52	C	77	62	100	32	
DO65857053	53	C	78	62	100	32	
DO65857054	54	C	80	62	100	32	
DO65857055	55	C	81	62	100	35	
DO65857056	56	C	82	62	105	35	
DO65857057	57	C	84	62	105	35	
DO65857058	58	C	85	62	105	37	
DO65857060	60	C	87	62	120	37	
DO65857062	62	C	89	62	120	37	
DO65857063	63	C	90	62	120	37	
DO65857065	65	C	93	62	125	40	

12-POINT DEEP (CONTINUED)							1
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric							
DO65857067	67	C	96	62	125	40	
DO65857070	70	C	100	62	125	40	
DO65857075	75	C	106	86	135	42	
DO65857076	76	C	107	86	135	45	
DO65857077	77	C	109	86	135	45	
DO65857078	78	C	110	86	135	45	
DO65857080	80	C	112	86	135	45	
DO65857085	85	C	118	86	140	52	
DO65857090	90	C	125	86	140	52	
DO65857095	95	C	131	86	140	52	
DO65857100	100	C	137	86	140	58	
DO65857105	105	C	143	95	155	58	
DO65857110	110	C	149	95	155	62	
DO65857115	115	C	155	95	155	62	

HEX DRIVER							2
Type	mm	Drawing	D2 mm	L mm	L1 mm	-	
Metric							
DO696610A	10	K	54	100	20	-	
DO696612A	12	K	54	100	20	-	
DO696614A	14	K	54	100	20	-	
DO696617A	17	K	54	100	20	-	
DO696619A	19	K	54	100	20	-	
DO696622A	22	K	54	100	20	-	
DO696622B	22	K	54	140	20	-	
DO696624A	24	K	54	100	20	-	
DO696627A	27	K	54	100	20	-	
DO696630A	30	K	54	100	24	-	
DO696632A	32	K	54	100	24	-	
DO696636A	36	K	54	100	28	-	

PIN & RING						
Type	D2 mm					
DO1100-0-000	54					
DO1100-0-086	86					
DO1100-0-095	95					



Drawing K

1 1/2" SQUARE DRIVE



6-POINT NORMAL

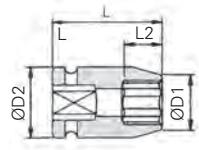
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Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO5112-0-030	30	A	56	86	78	21
DO5112-0-032	32	A	58	86	78	22
DO5112-0-035	35	A	62	86	78	22
DO5112-0-036	36	A	64	86	78	24
DO5112-0-037	37	A	65	86	78	24
DO5112-0-038	38	A	66	86	78	26
DO5112-0-040	40	A	68	86	78	28
DO5112-0-041	41	A	70	86	80	28
DO5112-0-045	45	A	75	86	84	30
DO5112-0-046	46	A	76	86	84	30
DO5112-0-047	47	A	77	86	84	32
DO5112-0-048	48	A	79	86	84	32
DO5112-0-050	50	A	81	87	87	32
DO5112-0-052	52	A	83	86	87	34
DO5112-0-054	54	B	86	86	90	37
DO5112-0-055	55	B	86	86	90	37
DO5112-0-056	56	B	86	86	92	37
DO5112-0-058	58	C	92	86	92	39
DO5112-0-060	60	C	93	86	92	39
DO5112-0-061	61	C	95	86	95	42
DO5112-0-062	62	C	96	86	95	42
DO5112-0-065	65	C	97	86	95	42
DO5112-0-068	68	C	104	86	100	46
DO5112-0-070	70	C	105	86	100	46
DO5112-0-072	72	C	108	86	108	49
DO5112-0-075	75	C	110	86	108	49
DO5112-0-078	78	C	115	86	115	53
DO5112-0-080	80	C	116	86	115	53
DO5112-0-085	85	C	125	86	118	56
DO5112-0-090	90	C	130	86	123	59
DO5112-0-095	95	C	137	95	123	62
DO5112-0-100	100	C	140	95	130	65
DO5112-0-105	105	C	150	95	130	68
DO5112-0-110	110	C	156	95	135	72
DO5112-0-115	115	C	160	95	140	77
DO5112-0-125	125	C	175	127	140	77

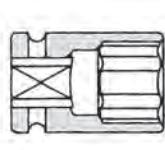
6-POINT DEEP

2

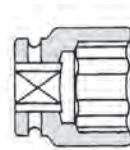
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO5112-1-036	36	A	64	86	115	24
DO5112-1-041	41	A	70	86	115	28
DO5112-1-042	42	A	71	86	115	28
DO5112-1-046	46	A	76	86	115	30
DO5112-1-050	50	A	81	86	135	34
DO5112-1-054	54	B	86	86	140	37
DO5112-1-055	55	B	86	86	140	37
DO5112-1-056	56	B	88	86	140	37
DO5112-1-060	60	C	94	86	150	39
DO5112-1-063	63	C	97	86	150	42
DO5112-1-065	65	C	100	86	150	42
DO5112-1-070	70	C	106	86	160	46
DO5112-1-075	75	C	112	86	170	49
DO5112-1-080	80	C	119	86	170	53
DO5112-1-085	85	C	125	86	170	56
DO5112-1-090	90	C	131	86	170	59
DO5112-1-095	95	C	137	95	180	61
DO5112-1-100	100	C	144	95	190	65
DO5112-1-105	105	C	154	95	190	68
DO5112-1-110	110	C	157	95	200	72
DO5112-1-115	115	C	164	95	210	77
DO5112-1-120	120	C	167	95	210	77
DO5112-1-125	125	C	174	127	210	77



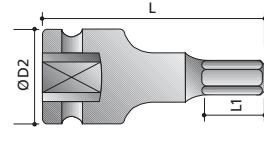
Drawing A



Drawing B



Drawing C



Drawing K

1 1/2" & 2 1/2" SQUARE DRIVE



Red Rooster · Yokota · Toku · Action

Type	mm	Drawing	D2mm	L mm	L1 mm	-
Metric						
DO64866019	19	K	86	105	20	-
DO64866022	22	K	86	105	20	-
DO64866024	24	K	86	105	20	-
DO64866027	27	K	86	105	20	-
DO64866030	30	K	86	105	20	-
DO64866032	32	K	86	105	20	-
DO64866033	33	K	86	105	20	-
DO64866041	41	K	86	105	20	-
DO64866046	46	K	86	105	20	-
DO64866050	50	K	86	105	20	-
DO64866055	55	K	86	105	20	-
DO64865019	19	K	86	120	20	-
DO64865022	22	K	86	120	20	-
DO64865024	24	K	86	120	20	-
DO64865027	27	K	86	120	20	-
DO64865030	30	K	86	120	24	-
DO64865032	32	K	86	120	24	-
DO64865033	33	K	86	120	24	-
DO64865036	36	K	86	120	28	-
DO64865038	38	K	86	120	28	-
DO64865041	41	K	86	120	34	-
DO64865046	46	K	86	120	38	-
DO64865050	50	K	86	120	38	-
DO64865055	55	K	86	120	43	-

1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6212-0-060	60	A	99	127	125	37
DO6212-0-065	65	A	105	127	130	40
DO6212-0-070	70	A	110	127	130	40
DO6212-0-075	75	A	118	127	140	42
DO6212-0-077	77	A	122	127	140	45
DO6212-0-080	80	A	124	127	140	45
DO6212-0-085	85	C	130	127	140	52
DO6212-0-090	90	C	136	127	145	52
DO6212-0-095	95	C	143	127	145	52
DO6212-0-100	100	C	149	127	150	58
DO6212-0-105	105	C	155	127	155	58
DO6212-0-110	110	C	161	127	160	60
DO6212-0-115	115	C	167	127	165	62
DO6212-0-120	120	C	176	127	170	67
DO6212-0-125	125	C	184	127	175	72
DO6212-0-130	130	C	188	152	175	72
DO6212-0-135	135	C	195	152	180	77
DO6212-0-140	140	C	204	152	180	77
DO6212-0-145	145	C	207	152	185	83
DO6212-0-150	150	C	214	152	185	83
DO6212-0-155	155	C	224	152	190	90
DO6212-0-160	160	C	227	152	190	90
DO6212-0-165	165	C	234	152	195	95
DO6212-0-170	170	C	244	152	195	95
DO6212-0-175	175	C	247	152	200	100
DO6212-0-180	180	C	254	152	200	100
DO6212-0-185	185	C	257	152	210	105
DO6212-0-190	190	C	265	152	210	105
DO6212-0-200	200	C	275	152	220	110

2

Type	D2 mm
DO1112-0-000	86
DO1112-0-095	95
DO1112-0-127	127



PIN & RING

Type
DO2112-0-000



ADAPTORS

EXTENSION BARS WITH PIN HOLE

1

Type	Drawing	D mm	L mm	
Metric				
DO7014-0-050	1/4"	B	13	50
DO7014-0-100	1/4"	B	13	100
DO7014-0-150	1/4"	B	13	150
DO7038-0-075	3/8"	B	19	75
DO7038-0-100	3/8"	B	19	100
DO7038-0-125	3/8"	B	19	125
DO7038-0-150	3/8"	B	19	150
DO7038-0-200	3/8"	B	19	200
DO7038-0-250	3/8"	B	19	250
DO7012-0-075	1/2"	B	25	75
DO7012-0-100	1/2"	B	25	100
DO7012-0-125	1/2"	B	25	125
DO7012-0-150	1/2"	B	25	150
DO7012-0-175	1/2"	B	25	175
DO7012-0-200	1/2"	B	25	200
DO7012-0-250	1/2"	B	25	250
DO7012-0-300	1/2"	B	25	300
DO7012-0-460	1/2"	B	25	460
DO7012-0-610	1/2"	B	25	610
DO7012-0-915	1/2"	B	25	915
DO7034-0-075	3/4"	B	44	75
DO7034-0-100	3/4"	B	44	100
DO7034-0-125	3/4"	B	44	125
DO7034-0-150	3/4"	B	44	150
DO7034-0-175	3/4"	B	44	175
DO7034-0-200	3/4"	B	44	200
DO7034-0-250	3/4"	B	44	250
DO7034-0-330	3/4"	B	44	330
DO7034-0-400	3/4"	B	44	400
DO7100-0-075	1"	B	54	75
DO7100-0-100	1"	B	54	100
DO7100-0-125	1"	B	54	125
DO7100-0-150	1"	B	54	150
DO7100-0-175	1"	B	54	175
DO7100-0-200	1"	B	54	200
DO7100-0-250	1"	B	54	250
DO7100-0-300	1"	B	54	300
DO7100-0-330	1"	B	54	330
DO7100-0-350	1"	B	54	350
DO7100-0-400	1"	B	54	400
DO7112-0-125	1½"	B	86	125
DO7112-0-250	1½"	B	86	250
DO7112-0-500	1½"	B	86	500
DO7212-0-250	2½"	B	127	250
DO7212-0-500	2½"	B	127	500

Rings and pins are not standard. Please order separately.

EXTENSION BARS WITH STEEL BALL RETAINER

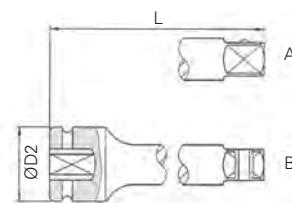
2

Type	Drawing	D2 mm	L mm
Metric			
DO6862075	3/8"	A	19
DO6862100	3/8"	A	19
DO6862125	3/8"	A	19
DO6862150	3/8"	A	19
DO6862250	3/8"	A	19
DO6863075	1/2"	A	25
DO6863100	1/2"	A	25
DO6863125	1/2"	A	25
DO6863250	1/2"	A	25

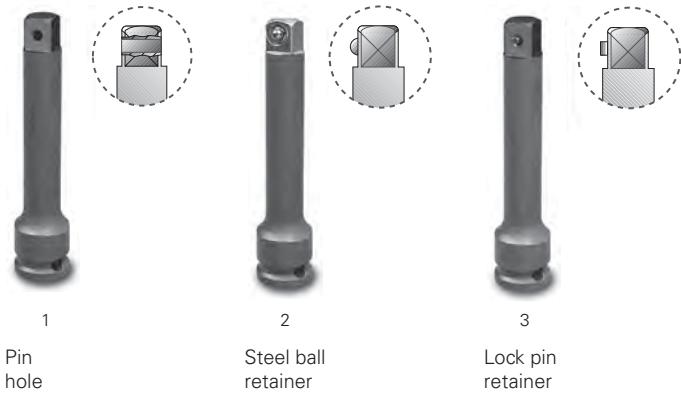
EXTENSION BAR WITH LOCK PIN RETAINER

3

Type	Drawing	D2 mm	L mm
Metric			
DO64514075	3/8"	A	19
DO64514100	3/8"	A	19
DO64514125	3/8"	A	19
DO64514150	3/8"	A	19
DO64514200	3/8"	A	19
DO64514250	3/8"	A	19
DO64524075	1/2"	A	25
DO64524100	1/2"	A	25
DO64524125	1/2"	A	25
DO64524150	1/2"	A	25
DO64524200	1/2"	A	25
DO64524250	1/2"	A	25
DO64524460	1/2"	A	25



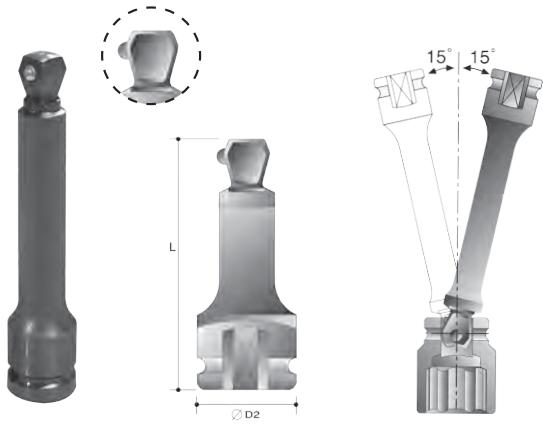
Drawing A & B

Pin
holeSteel ball
retainerLock pin
retainer

ADAPTORS

WOBBLE EXTENSION BARS

Type			D2 mm	L mm	Type
Metric					
DO6450F050	1/4"	1/4"	13	50	Steel ball retainer
DO6450F075	1/4"	1/4"	13	75	Steel ball retainer
DO6450F100	1/4"	1/4"	13	100	Steel ball retainer
DO6451F050	3/8"	3/8"	19	50	Steel ball retainer
DO6451F075	3/8"	3/8"	19	75	Steel ball retainer
DO6451F100	3/8"	3/8"	19	100	Steel ball retainer
DO6451F200	3/8"	3/8"	19	200	Steel ball retainer
DO6452F075	1/2"	1/2"	25	75	Steel ball retainer
DO6452F125	1/2"	1/2"	25	125	Steel ball retainer
DO6452F150	1/2"	1/2"	25	150	Steel ball retainer
DO6452F200	1/2"	1/2"	25	200	Steel ball retainer



JOINTS

UNIVERSAL JOINTS WITH STEEL BALL

Type			Drawing	D2 mm	L mm
Metric					
DO6781F1T	1/4"	1/4"	A	16	43
DO6782F2T	3/8"	3/8"	A	24	50
DO6783F3T	1/2"	1/2"	A	32	60
DO6784F4T	3/4"	3/4"	A	44	90



UNIVERSAL JOINTS WITH PIN HOLE

Type			Drawing	D2 mm	L mm
Metric					
DO9014-0-000	1/4"	1/4"	B	16	43
DO9038-0-000	3/8"	3/8"	B	24	50
DO9012-0-000	1/2"	1/2"	B	32	60
DO9034-0-000	3/4"	3/4"	B	44	105
DO9100-0-000	1"	1"	B	54	110
DO9112-0-000	1 1/2"	1 1/2"	B	86	182



Rings and pins are not standard. Please order separately.

ADAPTORS

ADAPTORS EXTERNAL SQUARE - EXTERNAL HEX

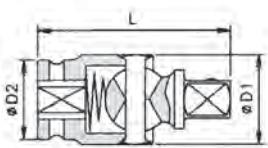
Type			Drawing	L mm	D mm
Metric					
DO69306050	1/4"	1/4"	C	50	9
DO69306075	1/4"	1/4"	C	75	9
DO69306100	1/4"	1/4"	C	100	9
DO69306150	1/4"	1/4"	C	150	9
DO69316050	3/8"	1/4"	C	50	13
DO69316075	3/8"	1/4"	C	75	13
DO69316100	3/8"	1/4"	C	100	13
DO69318075	3/8"	7/16"	D	75	13
DO6932E050	1/2"	1/4"	C	50	17
DO69328075	1/2"	7/16"	D	75	17



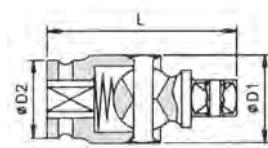
Drawing C



Drawing D

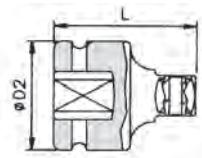


Drawing A



Drawing B

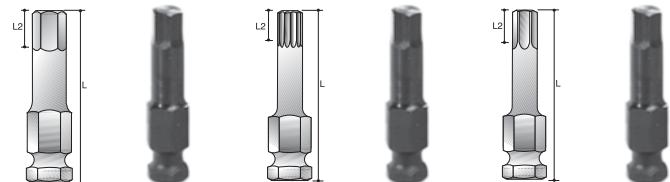
ADAPTORS



Drawing A



1 2



Hex drivers

Triple Square

Torx intern

ADAPTORS WITH PIN HOLE

Type			Drawing	D2 mm	L mm
Metric					
DO8014-0-038	1/4"	3/8"	A	13	26
DO8038-0-014	3/8"	1/4"	A	22	32
DO8038-0-012	3/8"	1/2"	A	22	36
DO8012-0-034	1/2"	3/4"	A	30	48
DO8012-0-038	1/2"	3/8"	A	26	38
DO8034-0-012	3/4"	1/2"	A	40	58
DO8034-0-100	3/4"	1"	A	40	63
DO8100-0-034	1"	3/4"	A	52	80
DO8100-0-112	1"	1 1/2"	A	52	91
DO8112-0-100	1 1/2"	1"	A	84	95
DO8112-0-212	1 1/2"	2 1/2"	A	86	120
DO8134-0-112	1 3/4"	1 1/2"	A	127	153
DO8212-0-112	2 1/2"	1 1/2"	A	127	138



1

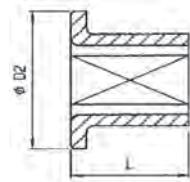
ADAPTORS WITH STEEL BALL

Type			Drawing	D2 mm	L mm
Metric					
DO64001012	1/4"	3/8"	A	13,6	26
DO64011008	3/8"	1/4"	A	22	32
DO6822F3T	3/8"	1/2"	A	22	36
DO6823F2T	1/2"	3/8"	A	25	38
DO64021024	1/2"	3/4"	A	30	48
DO6815L3T	3/4"	1/2"	A	44	56
DO64051024	1"	3/4"	A	54	75



2

The magnetic sleeve adaptors allow the temporary use of bigger impact sockets on smaller tools. By means of magnet, chances of loosing the adaptor are reduced. Especially well suited for the service kit of a traveling mechanic tasked with the servicing of heavy equipment.



HEX DRIVERS - 7/16"

Type		Drawing	mm	L2 mm	L mm
Metric					
DO697RG606	7/16"	A	6	6	60
DO697RG608	7/16"	A	8	8	60
DO697RG610	7/16"	A	10	10	60
DO697RG612	7/16"	A	12	10	60
DO697RG614	7/16"	A	14	10	60
DO697RG617	7/16"	A	17	10	60

TRIPLE SQUARE BITS - 7/16"

Type		Drawing	mm	L2 mm	L mm
Metric					
DO698JG110	7/16"	A	M10	9	60



INTERNAL TORX BITS - 7/16" DRIVE

Type		Drawing	mm	L2 mm	L mm
Metric					
DO697LG130	7/16"	A	T30	3,8	60
DO697LG140	7/16"	A	T40	3,8	60
DO697LG145	7/16"	A	T45	4,3	60
DO697LG150	7/16"	A	T50	5	60
DO697LG155	7/16"	A	T55	5,5	60
DO697LG160	7/16"	A	T60	8	60

*Also available as set DO691121301, see page 204.

MAGNETIC REDUCING ADAPTORS

Type		Form	D2 mm	L mm
Metric				
DO69880P12	1/4"	3/8"	A	19
DO69880P16	1/4"	1/2"	A	25
DO69881P16	3/8"	1/2"	A	25
DO69882P20	1/2"	5/8"	A	35
DO69882P24	1/2"	3/4"	A	44
DO69884P32	3/4"	1"	B	54
DO69885P48	1"	1-1/2"	B	86
DO69886P80	1-1/2"	2-1/2"	B	127
DO69888P01	2-1/2"	3-1/2"	B	176
				95

ADAPTORS



QUICK CHANGE ADAPTORS

1

Type	Drawing	<input checked="" type="radio"/>	<input type="radio"/>	D2 mm	L mm		
Metric							
DO69110C08	A	<input checked="" type="radio"/>	<input type="radio"/>	1/4"	1/4"	13	35
DO69110C12	A	<input checked="" type="radio"/>	<input type="radio"/>	1/4"	3/8"	13	42
DO69111C12	A	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	3/8"	19	46
DO69111C16	A	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	1/2"	22	60
DO69112C12	A	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	3/8"	25	54
DO69112C16	A	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	1/2"	25	60
DO69114C16	A	<input checked="" type="radio"/>	<input type="radio"/>	3/4"	1/2"	44	70
DO69114C24	A	<input checked="" type="radio"/>	<input type="radio"/>	3/4"	3/4"	44	78
DO69115C24	A	<input checked="" type="radio"/>	<input type="radio"/>	1"	3/4"	54	90
DO69115C32	A	<input checked="" type="radio"/>	<input type="radio"/>	1"	1"	54	100
DO69115C64	A	<input checked="" type="radio"/>	<input type="radio"/>	1"	3/4"	54	300

QUICK CHANGE BIT HOLDER

2

Type	Drawing	<input checked="" type="radio"/>	<input type="radio"/>	D2 mm	L mm	Bit holder	
Metric							
DO69111A14	B	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	7/16"	22	51
DO69112A14	B	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	7/16"	25	54

QUICK CHANGE BIT HOLDER

3

Type	Drawing	<input checked="" type="radio"/>	<input type="radio"/>	D2 mm	L mm	Bit holder	
Metric							
DO69121B08	C	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	1/4"	19	33
DO69122B08	C	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	1/4"	25	41

BIT HOLDER

4

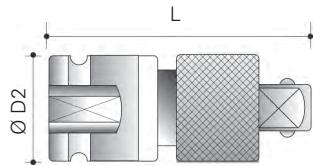
Type	Drawing	<input checked="" type="radio"/>	<input type="radio"/>	D1 mm	D2 mm	L mm	Bit holder
Metric							
DO69121008	D	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	1/4"	12,5	19
DO69121010	D	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	5/16"	14	19
DO69121016	D	<input checked="" type="radio"/>	<input type="radio"/>	3/8"	1/2"	19	19
DO69122008	D	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	1/4"	12,5	25
DO69122010	D	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	5/16"	15,5	25
DO69122016	D	<input checked="" type="radio"/>	<input type="radio"/>	1/2"	1/2"	20	25



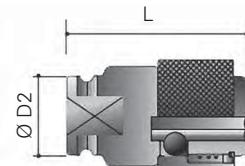
BIT HOLDER E



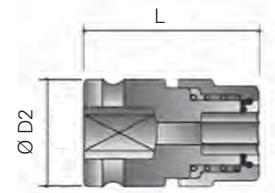
BIT HOLDER C



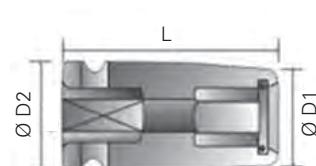
Drawing A



Drawing B



Drawing C



Drawing D

PIN & RING

Pin & ring



Retring



PIN & RING

Drive	Type	Diameter socket (D2) see OPM
1/4"	DO1014-0-000	13 mm
3/8"	DO1038-0-000	19 & 22 mm (set)
1/2"	DO1012-0-000	25 & 30 mm (set)
3/4"	DO1034-0-000	44 mm
	DO1100-0-000	54 mm
1"	DO1100-0-000	54 mm
	DO1100-0-086	86 mm
	DO1100-0-095	95 mm
1 1/2"	DO1112-0-000	86 mm
	DO1112-0-095	95 mm
	DO1112-0-127	127 mm
2 1/2"	DO2112-0-000	152 mm
	DO2112-0-127	127 mm

OPM.: These sizes are not those of the O-ring but are based on the D2 dimensions of the socket.

RETRING

Type	D2 mm	
DO10032S	36,5	3/4"
DO18708S	44,5	3/4"
DO18715S	53,9	3/4" & 1"
DO10008S	44,5	1"
DO10021S	76,2	1 1/2"
DO10025S	85,7	1 1/2"

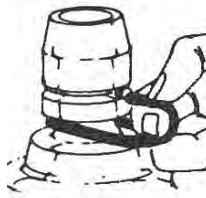
STEP 1

Place socket retainer over square driver. Place socket on square driver aligning retention holes. Hold center pin of retainer between thumb and index finger, and insert it into the retention holes.



STEP 2

Push center pin of socket retainer all the way in.



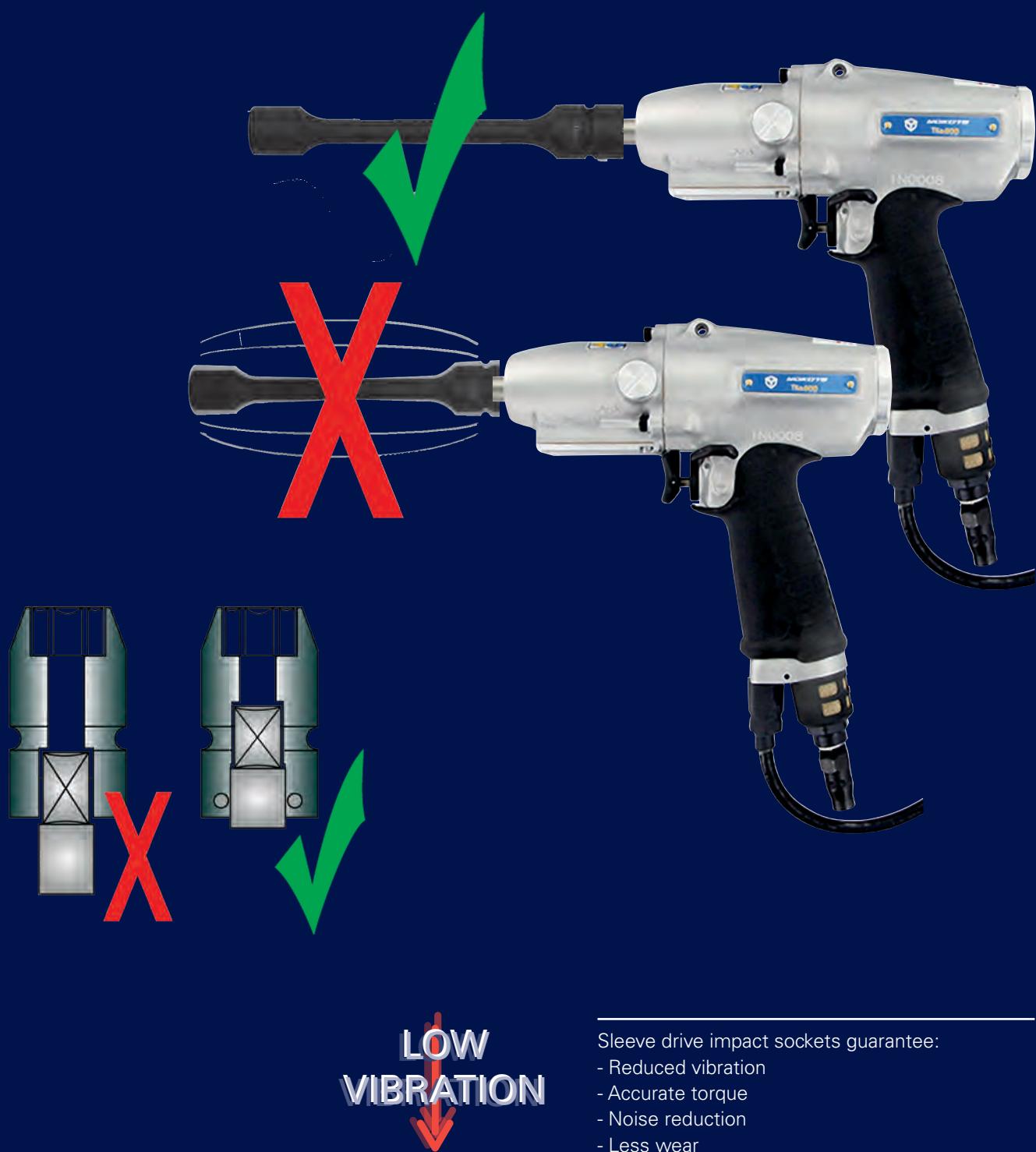
STEP 3

Pull O-ring of socket retainer up into groove socket.



SLEEVE DRIVE IMPACT SOCKETS

Sleeve drive impact sockets have been developed for us by ACTION. Sleeve drive sockets improve the quality of a joint tightened with an impulse wrench. They minimize the play between the socket and the tool thus reducing „wobble“ and stabilizing the torque setting. The use of sleeve drive sockets is not only of benefit to the actual joint but it also reduces vibration to the tool and operator, reduces noise and prevents fast wearing of the tool.



Sleeve drive impact sockets guarantee:

- Reduced vibration
- Accurate torque
- Noise reduction
- Less wear

SLEEVE DRIVE

3/8" Square Drive



6-POINT NORMAL

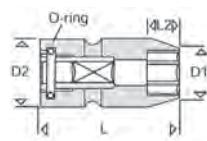
1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60910006	6	A	11	19	43	5
DO60910008	8	A	13	19	43	7
DO60910009	9	A	15	19	43	7
DO60910010	10	A	16	19	43	8
DO60910011	11	A	17,5	19	43	9
DO60910012	12	B	19	19	43	9
DO60910013	13	A	20	22	43	9
DO60910014	14	A	21	22	43	9
DO60910015	15	B	22	22	43	11
DO60910016	16	C	24	22	43	11
DO60910017	17	C	25	22	43	11
DO60910018	18	C	26	22	43	11
DO60910019	19	C	27,5	22	43	11
DO60910021	21	C	30	22	43	13

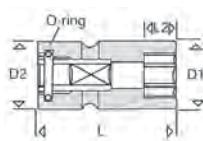
6-POINT MAGNETIC

1

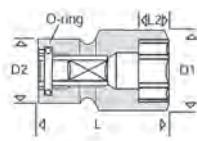
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6091A006	6	A	11	19	43	5
DO6091A007	7	A	12	19	43	5
DO6091A008	8	A	13	19	43	7
DO6091A009	9	A	15	19	43	7
DO6091A010	10	A	16	19	43	8
DO6091A011	11	A	17,5	19	43	9
DO6091A012	12	B	18,5	19	43	9
DO6091A013	13	A	20	22	43	9
DO6091A014	14	A	21	22	43	9
DO6091A016	16	C	24	22	43	11
DO6091A017	17	C	25	22	43	11
DO6091A018	18	C	26	22	43	11
DO6091A019	19	C	27	22	43	11
DO6091A020	20	C	28	22	43	13
DO6091A021	21	C	30	22	43	13
DO6091A022	22	C	31	22	50	13
DO6091A023	23	C	32	22	50	13
DO6091A024	24	C	34	22	50	13
DO6091A025	25	C	35	22	50	13
DO6091A026	26	C	36	22	50	13
DO6091A027	27	C	38	22	50	13



Drawing A



Drawing B



Drawing C

6-POINT LONG

2

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60913006	6	D	10,5	22	100	4
DO60913008	8	D	12,5	22	100	8
DO60913010	10	D	15	22	100	8
DO60913012	12	D	18	22	100	9
DO60913013	13	D	19	22	100	9
DO60913014	14	D	20	22	100	9
DO60913015	15	D	21	22	100	11
DO60913016	16	D	22,5	22	100	11
DO60913017	17	D	24	22	100	11
DO60914006	6	D	10,5	22	150	4
DO60914008	8	D	12,5	22	150	8
DO60914010	10	D	15	22	150	8
DO60914012	12	D	18	22	150	9
DO60914013	13	D	19	22	150	9
DO60914014	14	D	20	22	150	9
DO60914015	15	D	21	22	150	11
DO60914016	16	D	22,5	22	150	11
DO60914017	17	D	24	22	150	11
DO60915006	6	D	10,5	22	200	4
DO60915008	8	D	12,5	22	200	8
DO60915010	10	D	15	22	200	8
DO60915012	12	D	18	22	200	9
DO60915013	13	D	19	22	200	9
DO60915014	14	D	20	22	200	9
DO60915015	15	D	21	22	200	11
DO60915016	16	D	22,5	22	200	11
DO60915017	17	D	24	22	200	11
DO60915019	19	D	27	22	200	11

6-POINT MAGNETIC LONG

3

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6091P006	6	D	11	19	100	3
DO6091P007	7	D	12	19	100	3
DO6091P008	8	D	13	19	100	4
DO6091P009	9	D	15	19	100	4
DO6091P010	10	D	16	19	100	4
DO6091P011	11	D	17,5	19	100	5
DO6091P012	12	D	18,5	19	100	5
DO6091P013	13	D	20	22	100	6
DO6091P014	14	D	21	22	100	6
DO6091P015	15	D	22	22	100	7
DO6091P016	16	D	24	22	100	7
DO6091P017	17	D	25	22	100	7
DO6091R008	8	D	13	19	150	4
DO6091R010	10	D	16	19	150	4
DO6091R011	11	D	17,5	19	150	5

SLEEVE DRIVE

3/8" Square Drive



1 6-POINT LONG MAGNETIC (CONTINUED)

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6091R012	12	D	18,5	19	150	5
DO6091R013	13	D	20	22	150	6
DO6091R014	14	D	21	22	150	6
DO6091R015	15	D	22	22	150	7
DO6091R016	16	D	24	22	150	7
DO6091R017	17	D	25	22	150	7
DO6091T008	8	D	13	19	200	4
DO6091T009	9	D	15	19	200	4
DO6091T010	10	D	16	19	200	4
DO6091T012	12	D	18,5	19	200	5
DO6091T013	13	D	20	22	200	6
DO6091T014	14	D	21	22	200	6
DO6091T015	15	D	22	22	200	7

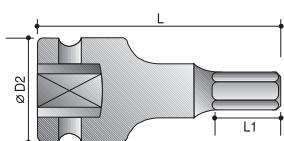
2 6-POINT DEEP MAGNETIC

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6091Q010	10	F	16	19	100	5
DO6091Q012	12	F	18,5	19	100	6
DO6091Q013	13	F	20	22	100	6
DO6091Q014	14	F	21	22	100	6
DO6091Q016	16	F	24	22	100	7

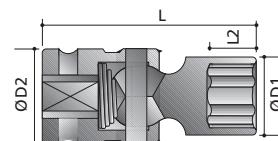
3 TORX® INTERNAL

Type	mm	Drawing	L1 mm	D2 mm	L mm	-
DO68811009	T9	E	2	22	75	-
DO68811010	T10	E	2,8	22	75	-
DO68811015	T15	E	2,8	22	75	-
DO68811020	T20	E	2,8	22	75	-
DO68811025	T25	E	3	22	75	-
DO68811027	T27	E	3	22	75	-
DO68811030	T30	E	3,8	22	75	-
DO68811040	T40	E	3,8	22	75	-
DO68811045	T45	E	4,3	22	75	-
DO68811047	T47	E	5	22	75	-
DO68811050	T50	E	5	22	75	-
DO68811055	T55	E	5	22	75	-

Torx® is a trademark of Textron.



Drawing D



Drawing E

4 TORX® EXTERNAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
DO66910005	E5	A	8	19	43	4,5
DO66910006	E6	A	9	19	43	5,0
DO66910007	E7	A	9,5	19	43	6,0
DO66910008	E8	A	11	19	43	6,5
DO66910010	E10	A	13	19	43	7,5
DO66910011	E11	A	14	19	43	8,0
DO66910012	E12	A	15,5	19	43	8,5
DO66910014	E14	A	17,5	22	43	10,0
DO66910016	E16	A	18,5	22	43	11,0

Torx® is a trademark of Textron.

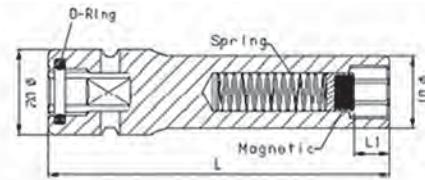
5 HEX DRIVER

Type	mm	Drawing	L1 mm	D2 mm	L mm	-
Metric						
DO68916003	3	E	11	22	75	-
DO68916004	4	E	11	22	75	-
DO68916005	5	E	11	22	75	-
DO68916006	6	E	11	22	75	-
DO68916007	7	E	16	22	75	-
DO68916008	8	E	16	22	75	-
DO68916009	9	E	16	22	75	-
DO68916010	10	E	16	22	75	-
DO68916011	11	E	16	22	75	-
DO68916012	12	E	16	22	75	-
DO68916013	13	E	16	22	75	-
DO68916014	14	E	16	22	75	-
DO68916015	15	E	16	22	75	-
DO68916016	16	E	16	22	75	-

STUD BOLT SETTERS



Type	Size	D1 mm	D2 mm	L mm
DO66A10062	M6 x 1	12,5	22	50
DO66A10083	M8 x 1,25	15	22	50
DO66A10104	M10 x 1,5	17	22	50



Drawing F

SLEEVE DRIVE

1/2" Square Drive



6-POINT NORMAL 1

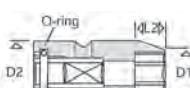
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60920012	12	A	20	25	52	12
DO60920013	13	A	21	25	52	12
DO60920014	14	A	22,5	25	52	12
DO60920015	15	A	23,7	30	52	12
DO60920016	16	A	25	30	52	12
DO60920017	17	A	26	30	52	12
DO60920018	18	A	27,5	30	52	12
DO60920019	19	A	28,7	30	52	12
DO60920021	21	B	30	30	52	12
DO60920022	22	C	32	30	52	12
DO60920023	23	C	32	30	52	12
DO60920024	24	C	35	30	52	12
DO60920025	25	C	36	30	57	12
DO60920027	27	C	39	30	57	12
DO60920030	30	C	42	30	62	12
DO60920032	32	C	44	30	62	12

6-POINT LONG 2

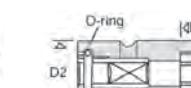
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO60923010	10	D	17	25	100	12
DO60923012	12	D	19,5	25	100	12
DO60923013	13	D	20,5	25	100	12
DO60923014	14	D	21,5	25	100	12
DO60923015	15	D	22,5	25	100	12
DO60923017	17	D	25	25	100	13
DO60923019	19	D	28	25	100	13
DO60924010	10	D	17	25	150	12
DO60924012	12	D	19,5	25	150	12
DO60924013	13	D	20,5	25	150	12
DO60924014	14	D	21,5	25	150	12
DO60924015	15	D	22,5	25	150	12
DO60924017	17	D	25	25	150	13
DO60924019	19	D	28	25	150	13
DO60925010	10	D	17	25	200	12
DO60925012	12	D	19,5	25	200	12
DO60925013	13	D	20,5	25	200	12
DO60925014	14	D	21,5	25	200	12
DO60925015	15	D	22,5	25	200	12
DO60925017	17	D	25	25	200	13
DO60925019	19	D	28	25	200	13

6-POINT LONG MAGNETIC 3

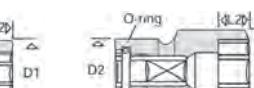
Type		Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6092P010	10	D	17,5	25	100	4
DO6092P011	11	D	18,5	25	100	5
DO6092P012	12	D	20	25	100	5
DO6092P013	13	D	21	25	100	6
DO6092P014	14	D	22,5	25	100	6
DO6092P015	15	D	23,5	30	100	7
DO6092P016	16	D	25	30	100	7
DO6092P017	17	D	26	30	100	7
DO6092P018	18	D	27,5	30	100	8
DO6092P019	19	D	28,5	30	100	8
DO6092R010	10	D	17,5	25	150	12
DO6092R011	11	D	18,5	25	150	12
DO6092R012	12	D	20	25	150	12
DO6092R013	13	D	21	25	150	12
DO6092R014	14	D	22,5	25	150	12
DO6092R015	15	D	23,5	30	150	12
DO6092R016	16	D	25	30	150	13
DO6092R017	17	D	26	30	150	13
DO6092R018	18	D	27,5	30	150	13
DO6092R019	19	D	28,5	30	150	13
DO6092T010	10	D	17,5	25	200	12
DO6092T011	11	D	18,5	25	200	12
DO6092T012	12	D	20	25	200	12
DO6092T013	13	D	21	25	200	12
DO6092T014	14	D	22,5	25	200	12
DO6092T015	15	D	23,5	30	200	12
DO6092T016	16	D	25	30	200	13
DO6092T017	17	D	26	30	200	13
DO6092T018	18	D	27,5	30	200	13
DO6092T019	19	D	28,5	30	200	13



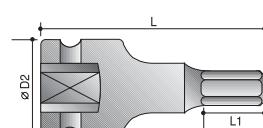
Drawing A



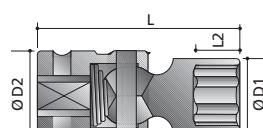
Drawing B



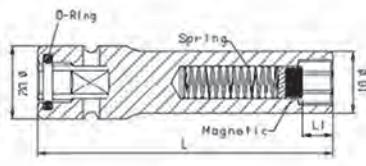
Drawing C



Drawing D



Drawing E



Drawing F

SLEEVE DRIVE

1/2" Square Drive



Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6092A006	6	A	13	25	52	5
DO6092A007	7	A	14	25	52	5
DO6092A008	8	A	15	25	52	7
DO6092A009	9	A	16	25	52	7
DO6092A010	10	A	17,5	25	52	8
DO6092A011	11	A	18,5	25	52	9
DO6092A012	12	A	20	25	52	12
DO6092A013	13	A	21	25	52	12
DO6092A014	14	A	22,5	25	52	12
DO6092A015	15	A	23,5	30	52	12
DO6092A016	16	A	25	30	52	12
DO6092A017	17	A	26	30	52	12
DO6092A018	18	A	27,5	30	52	12
DO6092A019	19	A	28,5	30	52	12
DO6092A020	20	B	30	30	52	12
DO6092A021	21	C	31	30	52	12
DO6092A022	22	C	32	30	52	12
DO6092A023	23	C	34	30	52	12
DO6092A024	24	C	35	30	52	12
DO6092A025	25	C	36	30	57	12
DO6092A026	26	C	38	30	57	12
DO6092A027	27	C	38,5	30	57	12

Type	mm	Drawing	D1 mm	D2 mm	L mm	L1 mm
Metric						
DO6092Q010	10	F	17,5	25	100	5
DO6092Q013	13	F	21	25	100	6
DO6092Q016	16	F	25	30	100	7
DO6092Q017	17	F	26	30	100	7
DO6092Q019	19	F	28,5	30	100	8

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
DO66920010	E10	A	14	25	52	7,5
DO66920011	E11	A	15	25	52	8
DO66920012	E12	A	16	25	52	8,5
DO66920014	E14	A	18	25	52	10
DO66920016	E16	A	20	25	52	11
DO66920018	E18	A	22	25	52	12,5
DO66920020	E20	A	25	30	52	14
DO66920022	E22	A	27	30	52	15
DO66920024	E24	A	29	30	52	16,5

Torx® is a trademark of Textron.

Type	mm	Drawing	L1 mm	D2 mm	L mm	-
DO68821020	T20	E	2,8	25	75	-
DO68821025	T25	E	3	25	75	-
DO68821027	T27	E	3	25	75	-
DO68821030	T30	E	3,8	25	75	-
DO68821040	T40	E	3,8	25	75	-
DO68821045	T45	E	4,3	25	75	-
DO68821047	T47	E	5	25	75	-
DO68821050	T50	E	5	25	75	-
DO68821055	T55	E	5,5	25	75	-
DO68821060	T60	E	8	25	75	-
DO68821070	T70	F	9,4	25	75	-
DO68821080	T80	E	10,5	25	75	-
DO68821090	T90	E	11,8	25	75	-
DO68821100	T100	E	13,1	25	75	-

Torx® is a trademark of Textron.

Type	mm	Drawing	L1 mm	D2 mm	L mm	-
Metric						
DO68925003	3	E	11	25	75	-
DO68925004	4	E	11	25	75	-
DO68925005	5	E	15	25	75	-
DO68925006	6	E	15	25	75	-
DO68925007	7	E	20	25	75	-
DO68925008	8	E	25	25	75	-
DO68925009	9	E	25	25	75	-
DO68925010	10	F	25	25	75	-
DO68925011	11	E	25	25	75	-
DO68925012	12	E	25	25	75	-
DO68925013	13	E	25	25	75	-
DO68925014	14	E	25	25	75	-
DO68925015	15	E	25	25	75	-
DO68925016	16	E	25	25	75	-
DO68925017	17	E	25	25	75	-
DO68925018	18	E	25	25	75	-
DO68925019	19	E	25	25	75	-

STUD BOLT SETTERS

Type	Size	D1 mm	D2 mm	L mm
DO66A21062	M6 x 1	13	25	75
DO66A21104	M10 x 1,5	17	25	75
DO66A21125	M12 x 1,75	19	25	75
DO66A21146	M14 x 2	22	25	75
DO66A21166	M16 x 2	27	30	75



SLEEVE DRIVE

3/4" Square Drive

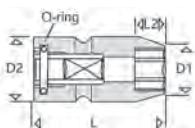


6-POINT NORMAL

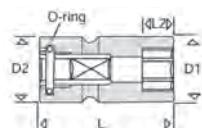
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	1
Metric							
DO60940017	17	A	31	44	65	12	
DO60940018	18	A	32	44	65	12	
DO60940019	19	A	33	44	65	14	
DO60940021	21	A	35	44	65	16	
DO60940022	22	A	37	44	65	16	
DO60940023	23	A	38	44	65	16	
DO60940024	24	A	39	44	65	16	
DO60940026	26	A	41	44	65	16	
DO60940027	27	A	43	44	65	16	
DO60940028	28	B	44	44	68	20	
DO60940029	29	C	45	44	68	20	
DO60940030	30	C	47	44	68	20	
DO60940032	32	C	49	44	70	20	
DO60940033	33	C	51	44	70	20	
DO60940034	34	C	52	44	70	20	
DO60940035	35	C	53	44	70	20	
DO60940036	36	C	54	44	70	20	
DO60940038	38	C	57	44	72	22	
DO60940041	41	C	60	44	72	22	
DO60940046	46	C	67	54	77	23	
DO60940050	50	C	71	54	77	23	

6-POINT MAGNETIC

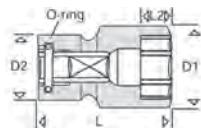
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	2
Metric							
DO6094A013	13	A	24,5	44	65	12	
DO6094A014	14	A	25,5	44	65	12	
DO6094A015	15	A	27	44	65	12	
DO6094A016	16	A	28	44	65	12	
DO6094A017	17	A	30	44	65	12	
DO6094A018	18	A	31	44	65	12	
DO6094A019	19	A	32	44	65	14	
DO6094A020	20	A	34	44	68	14	
DO6094A021	21	A	35	44	68	16	
DO6094A022	22	A	37	44	68	16	
DO6094A023	23	A	38	44	68	16	
DO6094A024	24	A	39	44	68	16	
DO6094A025	25	A	41	44	69	16	
DO6094A026	26	A	42	44	69	16	
DO6094A027	27	A	43	44	69	16	



Drawing A



Drawing B



Drawing C

HEX DRIVER

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	-	3
Metric								
DO68945010	10	E	44	100	20	-		
DO68945012	12	E	44	100	20	-		
DO68945014	14	E	44	100	20	-		
DO68945016	16	E	44	100	20	-		
DO68945017	17	E	44	100	20	-		
DO68945019	19	E	44	100	20	-		
DO68945022	22	E	44	100	20	-		
DO68945024	24	E	44	100	20	-		
DO68945027	27	E	44	100	20	-		
DO68945030	30	E	44	100	20	-		
DO68945032	32	E	44	100	20	-		
DO68945033	33	E	44	100	20	-		
DO68945036	36	E	44	100	20	-		
DO68945038	38	E	44	100	20	-		

For drawings see page 194.

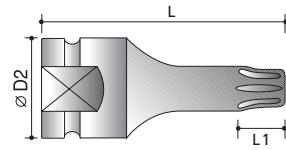
TORX® EXTERNAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm	4
DO66940018	E18	A	26	44	65	12,5	
DO66940020	E20	A	28	44	65	14	
DO66940022	E22	A	31	44	65	15	
DO66940024	E24	A	33	44	65	16,5	

Torx® is a trademark of Textron

EXTENSIONS

Type	mm	L mm	D1 mm
DO64614075	3/8"	75	22
DO64614125	3/8"	125	22
DO64614250	3/8"	250	22
DO64624075	1/2"	75	25
DO64624125	1/2"	125	25
DO64624175	1/2"	175	25
DO64624250	1/2"	250	25
DO64644175	3/4"	175	44
DO64644250	3/4"	250	44
DO64644330	3/4"	330	44



SLEEVE DRIVE



QUICKCHANGE ADAPTORS

1

Type	<input type="radio"/>	<input checked="" type="radio"/>	D2 mm	L mm	-
Metric					
DO69151112	3/8"	3/8"	19	75	-
DO69151212	3/8"	3/8"	19	100	-
DO69151116	3/8"	1/2"	20	80	-
DO69152112	1/2"	3/8"	25	75	-
DO69152216	1/2"	1/2"	25	100	-
DO69154116	3/4"	1/2"	44	90	-
DO69154324	3/4"	3/4"	44	125	-

BIT HOLDERS

2

Type	<input type="radio"/>	<input checked="" type="radio"/>	D2 mm	L mm	-
Metric					
DO69111E08	3/8"	1/4"	52	22	-
DO69111E14*	3/8"	7/16"	62	22	-
DO69112E08	1/2"	1/4"	60	25	-
DO69112E14*	1/2"	7/16"	70	25	-
DO69114E14*	3/4"	7/16"	80	44	-

* See page 186.

SETS

DO605121301

3/8"

**13 IMPACT SOCKETS, 6-POINT, DEEP**

7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 1 - 8 - 19 mm

DO611101301

3/8"

**13 IMPACT SOCKETS, 6-POINT, THIN WALL**

7-8-9-10-11-12-13-14-15-16-17-18-19 mm

DO0012-0-000S

1/2"

**10 IMPACT SOCKETS, 6-POINT, NORMAL**

9-10-11-13-14-17-19-22-24-27 mm

DO69521093

1/2"



DO691121301

1/2"

**1 QUICK CHANGE ADAPTOR,
1/2" SQUARE DRIVE, 7/16" HEX.**HEX INTERNAL TORX BITS 7/16"
T30-T40-T45-T50-T55-T60
Hex driver bits - 7/16": 6-8-10-12-14-17 mm**9 IMPACT SOCKETS, HEX DRIVER**

4-5-6-8-10-12-14-17-19 mm

DO605222601

1/2"

**26 IMPACT SOCKETS, 6-POINT, DEEP**10-11-12-13-14-15-16-17-18-19-20-
21-22-23-2-25-26-27-28-29-30-32-
33-34-35-36 mm

DO605202602

1/2"



DO69523108

1/2"

**26 IMPACT SOCKETS, 6-POINT**10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm**10 IMPACT SOCKETS, 6-POINT, DEEP**

10-11-13-14-17-19-21-22-24-27 mm

**7 PCS 1/2" DRIVE
IMPACT TRIPLE SQUARE DRIVER SET**

M5-M6-M8-M10-M12-M14-M16



Particularly suitable for use in car workshops geared to service Volkswagen brand cars.

SETS

DO61120310

1/2"



3 IMPACT SOCKETS WITH PLASTIC STOP AND SLEEVE
BLUE 17 MM - YELLOW 19 MM - RED 21 MM

DO611260501

1/2"



5 IMPACT SOCKETS WITH PLASTIC STOP AND SLEEVE
white 15 mm - blue 17 mm - yellow 19 mm - red 21 mm - green 22 mm

SPECIAL SET FOR WHEEL LUG NUT REMOVER

DO0012-0-286

1/2"



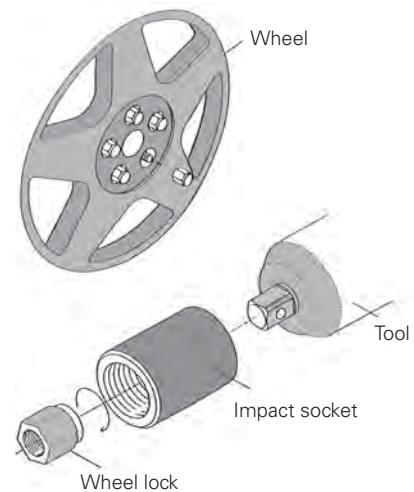
7 IMPACT SOCKETS, NORMAL

17 - 18,5 - 20 - 21,5 - 23 - 24,5 - 26 mm

APPLICATION

This wheel lug nut remover is used when it is discovered that the original key to remove your car wheel is lost. In order to remove the lock and the wheel, these sockets can be used.

Proper use of the socket is to have at least three windings of thread of the socket gripping over the lock. In case any of the first three windings are already gripping, the next bigger size of socket should be chosen. When the correct size of socket is chosen, it can unlock up to four bolts.



SET MAGNETIC REDUCERS

DO698800401



4 PCS. MAGNETIC SLEEVE INSERT ADAPTORS

- 1/4" FEMALE X 3/8" MALE
- 3/8" FEMALE X 1/2" MALE
- 1/2" FEMALE X 3/4" MALE
- 3/4" FEMALE X 1" MALE

The magnetic sleeve adaptors allow the temporary use of bigger impact sockets on smaller tools. By means of the magnet changes of loosing the adaptor are reduced. Especially well suited for the service kit of a traveling mechanic, tasked with the servicing of heavy equipment.

SETS, TORQUE SOCKETS & SPECIALS

DO605401001

3/4"



DO605421001

3/4"



DO0100-1-007

1"



10 impact sockets, 6-point, normal
21-22-24-27-30-32-33-36-41-46 mm

10 impact sockets, 6-point, deep
21-22-24-27-30-32-33-36-41-46 mm

7 impact sockets, 6-point, deep
24-27-30-32-33-36-41 mm

TORQUE SOCKETS

1/2"

1"



Type 1/2"	A/F mm	Nm	Length	Color
DO68122D17	17	75	220	Groen
DO68122L17	17	110	220	Rood
DO68122G19	19	90	220	Geel
DO68122L19	19	110	220	Blauw
DO68122M19	19	135	220	Grijs
DO68122E21	21	80	220	Zwart
DO68122L21	21	110	220	Bruin

Type 1"	A/F mm	Nm	Length
DO68552U23	23	250	305
DO68552W24	24	350	305
DO68552W27	27	350	305
DO68552Z27	27	450	305
DO68552Y29	29	400	305
DO68552B30	30	550	305
DO68552C30	30	600	305
DO68552A32	32	500	305
DO68552C32	32	600	305
DO68552F32	32	700	305
DO68552A33	33	500	305
DO68552C33	33	600	305
DO68552C36	36	600	305

WHEEL NUT SOCKET FOR SPECIAL MERCEDES WHEEL BOLTS. (1/2" X 17 MM)

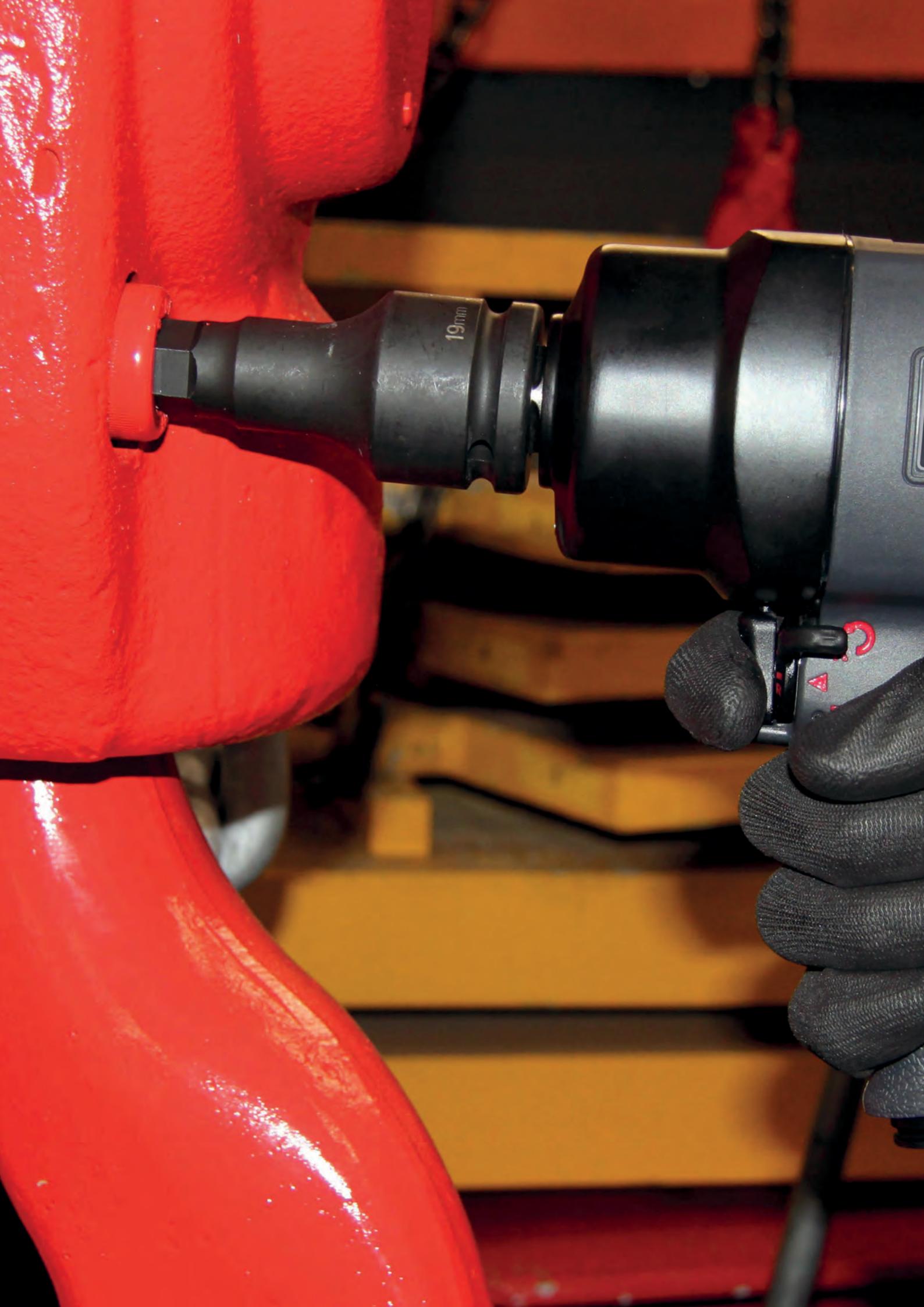
DO6112P017

Special



Includes rotating plastic sleeve and stop for protecting alloy wheels.

This special impact socket is suitable for:
Mercedes C-Class / GLK (W204), E-Class (W211, W212, W207), SLK (W172), M-Class (W164, W166), CL-Class (W216), S-Class (W221, W222) en Maybach.



INDEX

01-0508(C).....130	G	MI-4500ESR76	RRG-1000RE.....86
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7VC-6500FS.....88		MID-60081	RRG-1046AL.....89
7VC-8500FS.....88			RRG-213489
10RDS-2500.....83			RRG-214489
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