

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 pulled 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

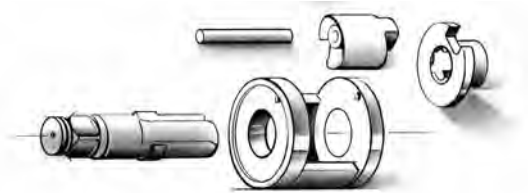
The average time that a tool is calculated to be used during a normal working cycle (1 min.). Intermittence varies between different types of tools, for example a grinding tool is normally in use for a long period and therefore has a high intermittence. An impact wrench is normally used in short bursts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

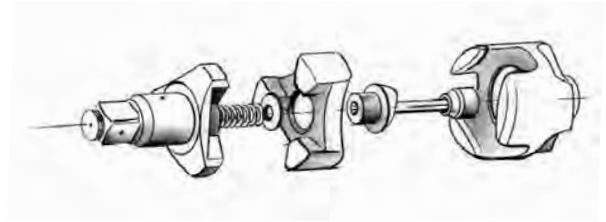
IMPACT WRENCHES

Mechanisms



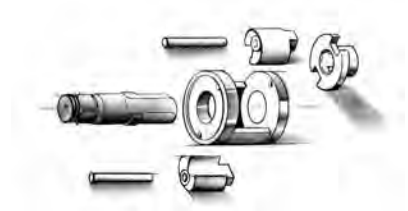
1-HAMMER SYSTEM

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



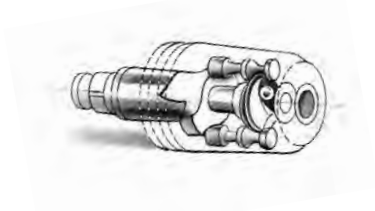
3-JAW SYSTEM

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.



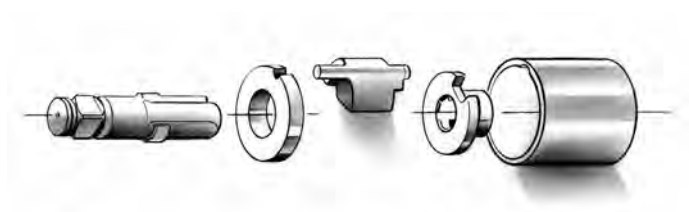
DYNAPACT IMPACT SYSTEM

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



RRI-25S

MAX. 2.550 Nm



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-160P



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-18N T	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

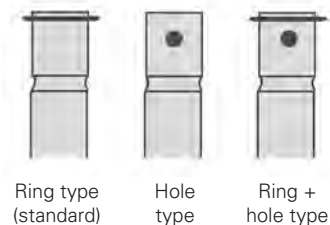
3) L = long anvil

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

Straight models



RRI-37E

Safety On The Road, Adjustable Shut-Off



MI-38ESR



MI-38ELR



MI-590TR



MI-3800ESR



MI-3800ELR



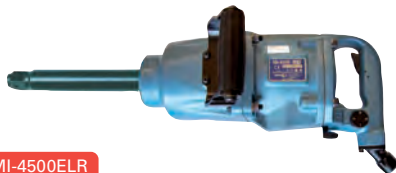
MI-42ESR



MI-42ELR



MI-4500ESR



MI-4500ELR



MI-5500ES



RRI-1061

Type	Brand	Square drive	Type ¹⁾	Bolt capacity mm	Impact-mechanism	RPM	Torque Nm	Power adjustment	Air cons. l/s ⁴⁾	Weight kg	Inlet-thread	Hose-diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-37E	RRI	1"	R+H	36	Twin-Hammer	6.000	2.200	R/L 3 levels	15	8,75	PT 1/2"	13	17	99
MI-38ESR	TOKU	1"	R+H	36	Twin-Hammer	3.700	1.850	R/L 4 levels	11,7	7,75	PT 1/2"	13	8,7	93
MI-38ELR ²⁾	TOKU	1"	R+H	36	Twin-Hammer	3.700	1.800	R/L 4 levels	11,7	7,95	PT 1/2"	13	8,7	93
MI-590TR ³⁾	TOKU	1"	R+H	36	Dynapact	3.800	1.850	450-700 Nm	11,7	10,9	PT 1/2"	13	9,1	93
MI-3800ESR	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-3800ELR ²⁾	TOKU	1"	R+H	36	Closed hammer	4.500	2.000	R/L 4 levels	15	9,9	PT 1/2"	13	8	84
MI-42ESR	TOKU	1"	R+H	42	Twin-Hammer	3.900	2.850	R/L 4 levels	23	9,4	PT 1/2"	13	7,6	99
MI-42ELR ²⁾	TOKU	1"	R+H	42	Twin-Hammer	3.900	2.800	R/L 4 levels	23	10,6	PT 1/2"	13	7,6	99
MI-4500ESR	TOKU	1"	R+H	45	Closed hammer	3.700	2.900	R/L 4 levels	23	13,4	PT 1/2"	13	7	84
MI-4500ELR ²⁾	TOKU	1"	R+H	45	Closed hammer	3.700	2.900	R/L 4 levels	23	14,5	PT 1/2"	13	7	84
MI-5500ES	TOKU	1 1/2"	H	52	Dynapact	2.800	5.500	R/L 4 levels	15	18,1	PT 1/2"	13	14,3	109
RRI-1061	RRI	1 1/2"	H	52	3-claw	3.200	4.500	-	27	16,0	PT 1/2"	19	5	97

¹⁾ Type: H = Hole type, R + H = Ring + Hole Type / ²⁾ L = Long spindle / ³⁾ Impact wrench with shut-off in forward (450-700 Nm) / ⁴⁾ Airconsumption of impact wrenches is measured under load

BOLT CLEANER SET MBC-30S



- One handheld airtool, 1800 rpm with 1/4" Hex chuck
- Four boltcleanercups with inner wirebrush, for M20, M24 and M30 bolts
- Three hole brushes, for M20, M24 and M30 nuts and holes
- One hole buff

TYPE



Ring type (standard)



Hole type



Ring + hole type

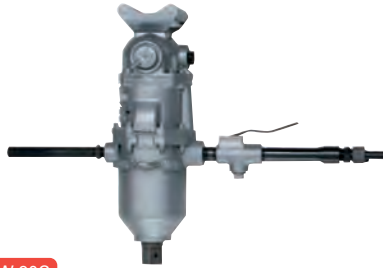
IMPACT WRENCHES

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

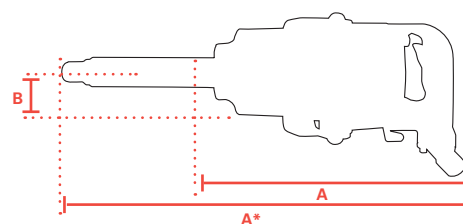
IMPACT WRENCHES

Dimensions, parts, accessories

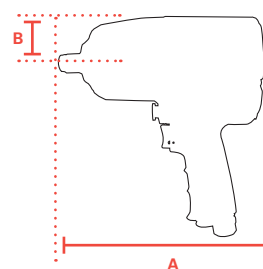
DIMENSIONS

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

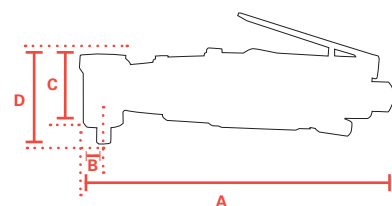
Drawing 1



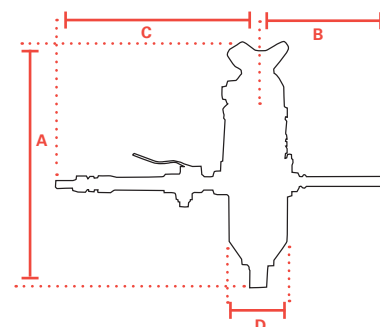
Drawing 2



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