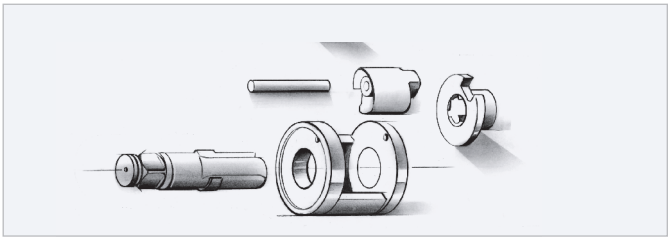
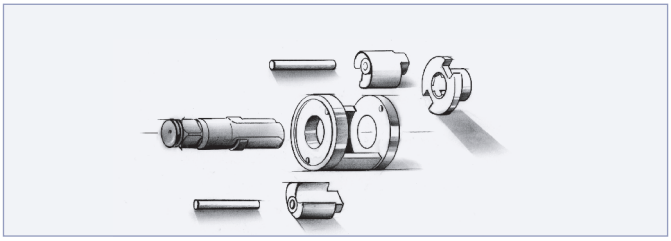
IMPACT WRENCHES

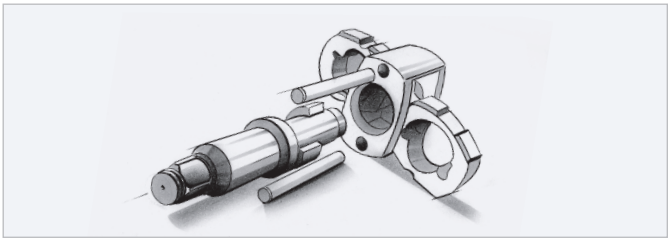
Mechanisms



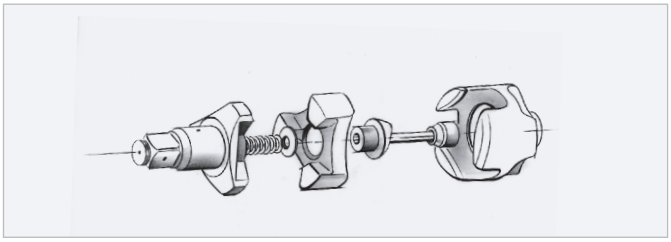
The **1-HAMMER SYSTEM** makes 1 impact per rotation at 1 side of the anvil. This causes a higher energy per blow. The impact wrenches with the 1-hammer system are especially suitable for disassembly jobs.



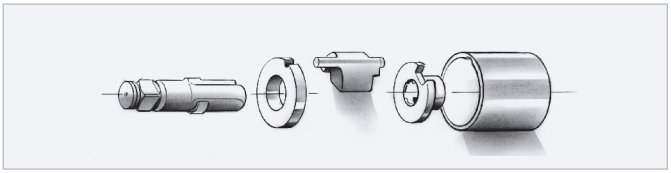
The **2-HAMMER SYSTEM** makes 2 impacts per rotation at both sides of the anvil.



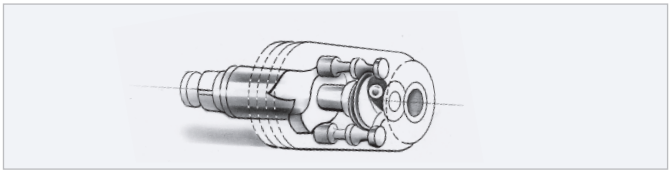
The **TWIN-HAMMER SYSTEM** makes 2 impacts per rotation at both sides of the anvil. Same principal as the 2-hammer system, manufactured differently.



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.



The **CLOSED HAMMER SYSTEM**. This construction, without loose hammerpin, will prevent breakage. The working principle is based on the 1-hammer 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.

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.

An 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.

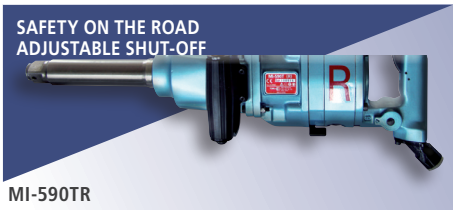
IMPACT WRENCHES

Straight models

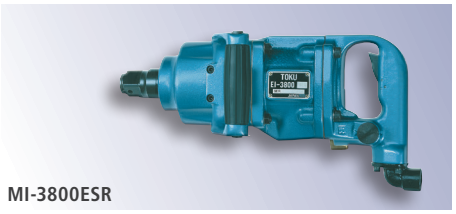

RRI-37E

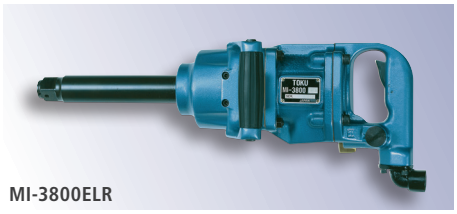

MI-38ESR


MI-38ELR



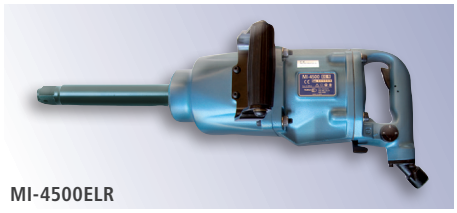
MI-590TR

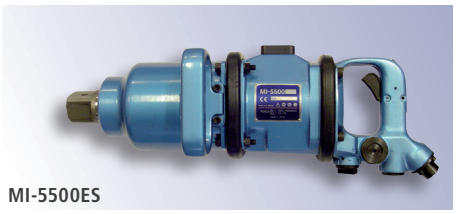

MI-3800ESR

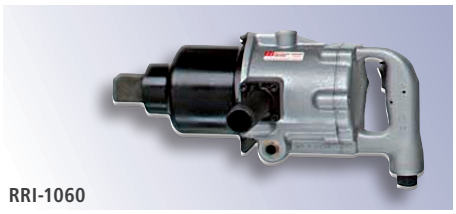

MI-3800ELR


MI-42ESR


MI-4500ESR


MI-4500ELR


MI-5500ES


RRI-1060

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/s²	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	1½"	H	52	Dynapact	2.800	5.500	R/L 4 levels	15	18,1	PT 1/2"	13	14,3	109
RRI-1060	RRI	1½"	H	52	3-Jaw	3.000	4.500	-	27	16,0	PT 1/2"	19	5	97

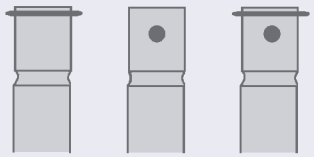
[1] Type: H = Hole type, R + H = Ring + Hole Type / [2] L = Long spindle / [3] Impact wrench with shut-off in forward (450-700 Nm) / [4] Airconsumption of impact wrenches is measured under load



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

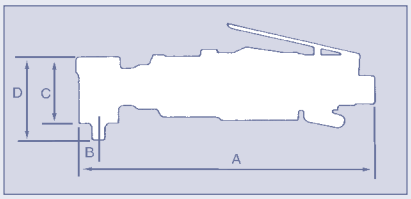
TYPE

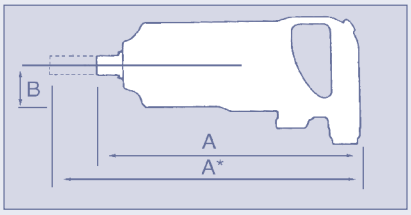

Ring type (standard) | Hole type | Ring + hole type

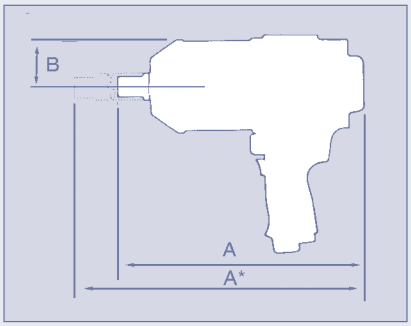
IMPACT WRENCHES

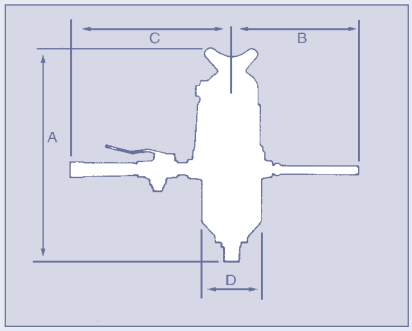
DIMENSIONS

Type	A mm	A* mm	B mm	C mm	D mm
MI-12	150	-	24	-	-
MI-16	170	-	27	-	-
MI-17MG	178	-	31	-	-
MI-20P	215	-	38	-	-
MI-38ESR	337	-	50	-	-
MI-38ELR	-	515	50	-	-
MI-42ESR	370	-	60	-	-
MI-42ELR	-	517	60	-	-
MI-590TR	570	-	50	-	-
MI-3800PR	281	-	55	-	-
MI-3800PLR	-	430	55	-	-
MI-3800ESR	355	-	55	-	-
MI-3800ELR	-	504	55	-	-
MI-4500ESR	460	-	60	-	-
MI-4500ELR	-	584	60	-	-
MI-5500ES	553	-	63	-	-
RR-15A	340	-	32	67	-
RR-15P	180	-	30	-	-
RR-20PN	239	-	38	-	-
RR-160H	185	-	30	-	-
RR-16N	150	-	30	-	-
RR-18N	185	-	30	-	-
RR-18NT	185	-	30	-	-
RR-24N	210	-	50	-	-
RRI-14	120	-	32	-	-
RRI-17	172	-	29	-	-
RRI-21	190	-	35	-	-
RRI-25	234	-	43	-	-
RRI-37E	-	515	52	-	-
RRI-1060	400	-	78	-	-
V-160P	182	-	34	-	-
YW-6CL	215	-	14	50	63
YW-50C	535	-	355	448	160
YW-65C	606	-	344	434	162
YW-90C	674	-	358	448	186
YW-120C	827	-	527	461	226









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 noise suppressor

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