

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. Sound, 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

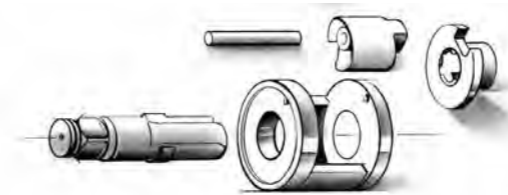
The average time that a tool is calculated to be used during a normal working cycle (1 min.). Intermittence varies between different types of tools, for example a grinding tool is normally in use for a long period and therefore has a high intermittence. An impact wrench is normally used in short bursts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

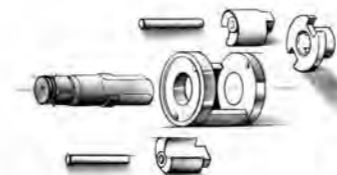
IMPACT WRENCHES

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.



2-HAMMER SYSTEM

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



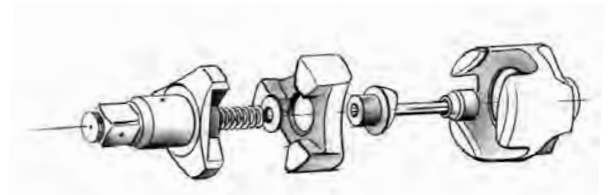
TWIN-HAMMER SYSTEM

The twin-hammer system makes 1 impact per rotation at both sides of the anvil. Same principal as the 2-hammer system, manufactured differently.



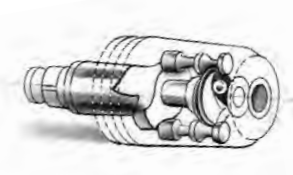
MECHONEER SYSTEM

Mechoneer is a new patented percussion mechanism, based on the twin hammer system and the closed hammer system, with the advantages of both: it makes 1 stroke per rotation, has no loose pins in the hammers and the whole thing is closed. As a result, there is 40% less vibration, 10% less noise and 80% longer life.



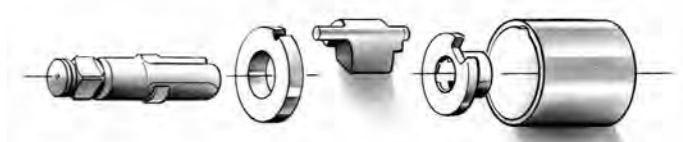
3-JAW SYSTEM

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.



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.



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.

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Straight models



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	Sound 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	5.950	-	27	16,0	PT 1/2"	19	5	97

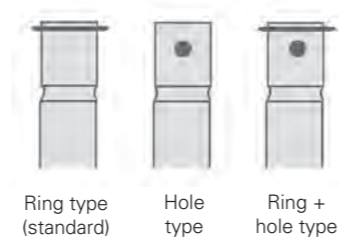
¹⁾ Type: H = Hole type, R + H = Ring + Hole Type / ²⁾ L = Long spindle / ³⁾ Impact wrench with shut-off in forward (450-700 Nm) / ⁴⁾ Airconsumption of impact wrenches is measured under load

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



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Heavy duty models



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	Sound level dB(A)
YW-50C	YOKOTA	1 1/2"	H	52	2-Hammer	3.000	4.500	30	27	PT 1"	19	2,3	90
YW-65C	YOKOTA	1 3/4"	H	90	2-Hammer	1.700	16.500	41	62	PT 1"	19	2,3	94
YW-120C	YOKOTA	2 1/2"	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⁾ 1 1/2" 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
- MI-17C-SK**
 - Impact wrench MI-17C
 - 5 x 1/2" Impact sockets (A/F 17-19-21-22-24)
 - Extension bar 100 mm
- MI-17C-SL**
 - Impact wrench MI-17C
 - 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