

# Ratchet Wrenches

## NEW GENERATION WRENCHES



**1103 and 1133: Mini ratchet wrenches with 1/4" & 3/8" square drive**

**The little tools with big performance:**

Fast, 270 rpm - Powerful, 34 Nm \*



**1103, 1133, 1107 & 1177 High performance composite ratchet wrenches**

New concept with ergonomic design and a durable composite housing.

These ultra duty ratchets are the first of the next generation of ratchets from IR. The tools have a composite housing and two speeds for versatility.

The TwinPawl Plus head design eliminates skipping and lock-up.



**1107 and 1177: Ultra duty ratchet wrenches with 3/8" and 1/2" square drive**

Dual speed trigger for ultimate versatility

Ingersoll-Rand exclusive TwinPawl Plus™ head design to ensure full pawl engagement

Heat treated ratchet head provides additional durability. TwinPawl Plus™ head design ensures full pawl engagement



Directional exhaust prevents unwanted blow-back



Two speed power ring: versatility added, nothing removed

Double injection moulded handle with textured over-sleeve for superior comfort and grip.



Convenient 360 degree directional side exhaust lets operator direct air away from work area.

New high performance 4-vanes offset motor for increased torque and efficiency.

Unique two-speed trigger for ultimate versatility and control

\* See page 14 for specifications.

# Ratchet Wrenches

1/4", 3/8" and 1/2" Square Drive

## 103-EU 1/4" and 1033-EU 3/8" Ratchets ★★

- Stubby ratchets for fastener work in confined spaces.
- Two of the smallest air ratchets available, only 165 mm long.
- Heat treated, hardened steel yoke.

## 104A-EU 1/4" Ratchet ★★

- One of the smallest reversible air ratchets available – ideal for use in confined areas.
- An excellent tool for small engine repairs, headlight service work, bench and dashboard work.
- Optional tool boot in vinyl material, part no. 104-P32.

## 170 3/8" and 1770 1/2" Ratchets ★

- Powerful wrenches – high quality at an affordable price.
- Fast rundown for efficient operation.
- Compact head for confined areas.

## 107XP 3/8" and 1077XP 1/2" Ratchets ★★★

- Technologically advanced head design for extra durability.
- Up to 68 Nm torque, 160 rpm free speed.
- Variable speed lever style throttle.
- 360° adjustable exhaust.
- Ideal reversible tools for body shop work, radiator removal and replacement, spark plugs, engine and exhaust work.

## 109XP 3/8" and 1099XP 1/2" Ratchets ★★★

- Enhanced mechanism makes this the fastest ratchet in its class !
- Up to 95 Nm torque, 300 rpm free speed.
- 360° adjustable exhaust.
- Push button throttle.
- Still provides convenient access for tight spaces such as crowded engine compartments.



103-EU



104A-EU



1770



107XP



109XP



## Reactionless Ratchet



## 111A-EU 3/8" and 1111A-EU 1/2" Ratchets ★★★

- These wrenches use a unique impact mechanism which eliminates torque reaction - thereby saving your knuckles.
- The fastest air ratchets on the automotive market - two and a half times faster than standard ratchets.
- Ideal for the toughest automotive applications.



# Ratchet Wrenches

1/4", 3/8" and 1/2" Square Drive (cont.)

Ratchet Wrench Specifications (at 90 psi – 6.2 bar)

Model	Square drive	Std. bolt capacity	Free speed	Working torque	Max. torque	Net weight	Overall length	Average air cons.	Air inlet	Min. hose size
	in		rpm	Nm	Nm	kg	mm	l/min	in	mm
1103	1/4	M10	270	7-34	34	0.8	190	113	1/4	6
1133	3/8	M10	270	7-34	34	0.8	190	113	1/4	6
1107	3/8	M10	270	14-68	81	1.1	263	113	1/4	8
1177	1/2	M10	270	14-68	81	1.1	263	113	1/4	8
103-EU	1/4	M10	200	7-27	27	0.5	165	70	1/4	6
104A-EU	1/4	M10	200	7-27	27	0.5	198	70	1/4	6
1033-EU	3/8	M10	200	7-27	27	0.5	165	70	1/4	6
107XP	3/8	M10	160	14-61	68	1.1	267	110	1/4	8
170	3/8	M10	160	14-61	75	1.1	260	110	1/4	6
111A-EU	3/8	M10	300	14-68	68	1.2	267	110	1/4	8
109XP	3/8	M10	300	14-82	95	1.4	302	110	1/4	8
1077XP	1/2	M10	160	14-61	68	1.1	267	110	1/4	8
1770	1/2	M10	160	14-61	75	1.1	260	110	1/4	6
1111A-EU	1/2	M10	300	14-68	68	1.2	267	110	1/4	8
1099XP	1/2	M10	300	14-82	95	1.4	302	110	1/4	8

## Ratchet Wrench Accessories



SK2M12

SK4M14

### Socket Sets

Square drive	Part no.	Contains: (socket size in mm)
1/4"	SK2M12	Std. sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14 + one 50 mm extension bar + one 100 mm extension + 1/4"-3/8" adapter.
3/8"	SK3M10	Std. sockets: 9, 10, 11, 12, 13, 14, 15, 16, 17, 19
1/2"	SK4M14	Std. sockets: 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24
1/2"	SK4M5L	Deep length sockets: 17, 19, 21, 22 and 24

### Standard Power Sockets – 6 points

A/F Hex		1/4" Square drive		3/8" Square drive		1/2" Square drive	
mm	in	mm	in	mm	in	mm	in
4		S62M4					
4.5		S62M45					
5	3/16	S62M5	S62H316				
5.5		S62M55					
6	1/4	M62M6	S62H14	S63M6	S63H14		
7	9/32	S62M7	S62H932	S63M7			
8	5/16	S62M8	S62H516	S63M8	S63H516	S64M8	
9	11/32	S62M9	S62H1132	S63M9		S64M9	
10	3/8	S62M10	S62H38	S63M10	S63H38	S64M10	S64H38
11	7/16	S62M11	S62H716	S63M11	S63H716	S64M11	S64H716
12		S62M12		S63M12		S64M12	
13	1/2	S62M13	S62H12	S63M13	S63H12	S64M13	S64H12
14	9/16	S62M14	S62H916	S63M14	S63H916	S64M14	S64H916
15				S63M15		S64M15	
16	5/8			S63M16	S63H58	S64M16	S64H58
17	11/16			S63M17	S63H1116	S64M17	S64H1116
18				S63M18		S64M18	
19	3/4			S63M19	S63M19	S64M19	S64H34
20				S63M20		S64M20	
21	13/16			S63M21	S63H1316	S64M21	S64H1316
22	7/8			S63M22		S64M22	S64H78
23						S64M23	
24	15/16					S64M24	S64H1516

### Power universal joints



Square drive	Part no.
1/4"	J2
3/8"	J3
1/2"	J4

### Power extension bars



Square drive	Part no.	Length mm
1/4"	E250MM	50
	E2150MM	150
3/8"	E375MM	75
	E3150MM	150
1/2"	E475MM	75
	E4125MM	125

### Sockets adapters (female to male drivers)



Square drive	Part no.	Male end
1/4"	A2F3M	3/8
3/8"	A3F4M	1/2
	A3F2M	1/4
1/2"	A4F3M	3/8
	A4F6M	3/4