

Proven Reliability



The NEW Master 35® Impact Wrench has the same reliable, high quality impact mechanism and gear box which has been used during the past thirty years and is now powered by a more powerful Engine which complies with EUR5 and EPA3 low emission Standards.

Because of its increased power and high engineering specification it will remove/fit most Lagscrews and Joint Bar Nuts in under three seconds and using one of our Safety Quick Release Auger Attachment drill holes in Wooden Ties.

It is easily carried by one person, operator friendly, has good balance, easy to repair and because it is so fast reduces the potential harm of vibration exposure especially when fitted to our Tool Carrier.

Use with Aspen 2 fuel to reduce emission of harmful substances by up to 99%, improves performance and reduce maintenance costs by 30%.

- ▶ **LOWER WEIGHT**
- ▶ **INCREASED POWER**
- ▶ **FASTER OPERATION**
- ▶ **LOW VIBRATION EXPOSURE**
- ▶ **LOW EXHAUST EMISSION LEVELS**
- ▶ **LOW MAINTENANCE COST**



Technical Specification

Dimensions	Length 23 5/8"	Height 11"	Width 17 3/4"
Engine	Two stroke/cycle Special Airtec EMAK 63.4 c.c. complying with EUR5 and EPA3 Standards		
Power	3.4 HP 2.6kW @ 7800rpm		
Fastener Type	Bolt	5/8" to 1 1/4" diameter	
	Rectangular	all sizes	
	Hexagon	Up to 3 1/4"	
	Square/Bi-Square	Up to 2 1/4"	
	Operation levels based on ISO3744 Acoustic Pressure (LpA) 101.7 dBA Power (LWA) 114.8 dBA Always wear ear protection		
Square Drive	Standard 1"		
Torque Range	350 – 1850 ft/lbs approximately . It is possible to generate higher torques under special conditions. The Master will loosen any screwed fastener previously tightened by any other Petrol/Gas Driven Impact Wrench.		

VIBRATION EXPOSURE

Vibration exposure is more important than vibration e.g. a low vibration machine which takes a long time to perform a task generates higher vibration exposure than a higher vibration machine which performs a task much more quickly. The following data is based on practical on track testing carried out in the UK in February 2020.

Fishplates / Joint Bar Nuts - 2.25 seconds

		AV		LV	
	Vibration	Trigger per min	No. of Fasteners	Trigger time mins	No. of Fasteners
Tightening	12.28m/s2	20	533	80	2133
Loosening	11.05m/s2	25	667	98	2613

Chairscrews/Lagscrews - 2.5 seconds

		AV		LV	
	Vibration	Trigger per min	No. of Fasteners	Trigger time mins	No. of Fasteners
Tightening	11.90m/s2	21	504	85	2040
Loosening	14.72m/s2	14	336	55	1320

WEIGHT 39 1/2 lbs

PART NO.	DESCRIPTION
	MASTER 35 TOOL CARRIER
1750.0100	Standard Gauge
1750.0100BV	Standard Gauge Bridge Version
2801.7550	Master 35 Tool Carrier Accessory Vertical for Lag Screws up to S/No. ATE20 A105
2801.7565	Master 35 Tool Carrier Accessory Vertical for Lag Screws from S/No. MA20 A001
2801.7560	Master 35 Tool Carrier Accessory Horizontal for Joint Bar Nuts
	Please Note : Narrow and Broad Gauge Track versions also available
BOX	Metal Carrying Box with hinged lid and rubber strips on base
AUGAM	Augering Attachment Quick Release – 7/16" Hex American

Impact Sockets 1" Square Drive Bi-Square 4" long 8 point			
PART NO.	PARALLEL	PART NO.	TAPERED
559	¾"	559T	¾"
715	13/16"	430T	7/8"
430	7/8"	425T	1"
485	15/16"	519T	1 1/8"
425	1"	518T	1 3/16"
519	1 1/8"	433T	1 ¼"
518	1 3/16"	429T	1 5/16"
433	1 ¼"	524T	1 3/8"
429	1 5/16"	440T	1 7/16"
524	1 3/8"	431T	1 ½"
440	1 7/16"	441T	1 9/16"
431	1 ½"	432T	1 5/8"
441	1 9/16"	434T	1 11/16"
432	1 5/8"	437T	1 7/8"
434	1 11/16"	435T	1 ¾"
437	1 7/8"	436T	1 13/16"
435	1 ¾"	427T	2"
436	1 13/16"	522T	2 1/8"
438	1 15/16"	442T	2 3/16"
427	2"	428T	2 ¼"
521	2 1/16"	722T	2 3/8"
522	2 1/8"		
442	2 3/16"		
428	2 ¼"		
439	2 5/16"		
421	2 ½"		
443	2 5/8"		
486	2 3/16" Hex		

Impact Sockets 1" Square Drive Bi-Square 4" long 4 point	
PART NO.	PARALLEL
485SQ	15/16"
430SQ	7/8"
425SQ	1"
519SQ	1 1/8"

Impact Sockets 1" Square Drive			
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
454	1 1/16" x 13/16" Rectangular	511	31/32" x 25/32" Rectangular Standard
454S	1 1/16" x 13/16" Rectangular Thin Wall	454D	1 1/16" x 13/16" Rectangular Deep
454/2BUT	1 1/16" x 13/16" Rectangular Butterfly	454/2DBUT	1 1/16" x 13/16" Rectangular Butterfly Deep

Quick Release Sockets 7/8" Square Drive 2 ¾" long			
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
7878SQSP	7/8" Square	781516SQSP	15/16" Square
781SQSP	1" Square	78118BSSQ	1 1/8" Bi-Square
782128SP	1 1/16" x 13/16" Rectangular	7811516BSSP	1 15/16" Bi-Square
782128SBUT	1 1/16" x 13/16" Rectangular Butterfly	7811116BSSP	1 11/16" Bi-Square
782428SP	1 1/16" X 31/32" Rectangular		

Quick Release Sockets 7/8" Square Drive 4" long	
PART NO.	DESCRIPTION
781.516BDSP	1 5/16" Bi-Square

Extensions 1" Square Drive			
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
414	6"	407	8"
408	10"	409	12"
406	Universal Joint 1" Square Drive		
301	Rubber Ring		Steel Pin
		299	1 7/8"
		299/1	2 ¼"
		299/2	2 5/8"
NOGO	Master35 No Go Gauge		