

## Proven Reliability



The NEW Master 35® Impact Wrench is powered by a New Generation low emission 63.4 c.c. Engine complying with EUR5 and EPA3 Standards which is a significant step towards de-carbonisation.

Because of its increased power the NEW Master 35 Impact Wrench will remove/fit most Chairscrews and Fishplate Nuts in under three seconds and using our Safety Quick Release Auger Attachment drill holes in Wooden Sleepers.

It is easily carried by one person, is operator friendly, can be used safely in all weather conditions, has good balance, easy to repair and because it is so fast reduces the potential harm of vibration exposure.

Use the Master 35 Impact Wrench mounted onto our Tool Carrier and reduce vibration by over 30%.

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 600mm	Height 284mm	Width 452mm
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	16 -32mm diameter	
	Rectangular	all sizes	
	Hexagon	up to 83mm	
	Square/Bi-Square	up to 67mm	
	Operation levels based on ISO3744 Acoustic Pressure (LpA) 101.7 dBA Power (LWA) 114.8 dBA <b>Always wear ear protection</b>		
Square Drive	Standard 1"		
Torque Range	500 – 2.500Nm 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. Reduce vibration by fitting the Master 35 to our Tool Carrier.

#### Fishplates / Joint Bar Nuts - 2.25 seconds

		EAV		ELV	
	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

		EAV		ELV	
	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 17.9 kgs

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
	<b>Master 35 Tool Carrier</b>		
1750.0100	Standard Gauge		
1750.0090	Narrow Gauge		
1750.9999	Broad Gauge		
2801.7550	Master 35 Tool Carrier Accessory Vertical for Chairscrews		
2801.7560	Master 35 Tool Carrier Accessory Horizontal for Fishplate Nuts		
BOX	Metal Carrying Box with hinged lid and rubber strips on base		
AUG	Augering Attachment Quick Release – 9mm Hex European		
	<b>Auger Bits Scotch Nose Premium 245mm long</b>		
S10	10mm dia	S13	13mm dia
S16	16mm dia	S17	17mm dia
S18	18mm dia	S19	19mm dia
S22	22mm dia		
GEISAUG	Augering Attachment for Graffenstaden Auger Bits		
	<b>Auger Bits Graffenstaden Shank</b>		
14G	14mm	16G	16mm dia
18G	18mm		
	<b>Impact Sockets ¾" Square Drive</b>		
510	1" Bi-Square Deep		
	Impact Sockets 1" Square Drive		
454	28 x 21mm Rectangular Standard	454D	28 x 21mm Rectangular Deep
454S	28 x 21mm Rectangular Thin Wall	511	24 x 20 Rectangular
446	¾" Bi-Square	483	1 5/8" Bi-Square
424	25.4mm Bi-Square	426	32mm Bi-Square
423	36.5mm Bi-Square	419	40mm Bi-Square
SPADAP	Adaptor 1" Female to 23mm Square Quick Release		
	<b>Quick Release Sockets 23mm Square Drive Bi-Square</b>		
7825STU	25.4mm 7836.5 36.5mm		
7840BSTU	40mm		
	<b>Extensions 1" Square Drive</b>		
414	150mm long	407	200mm long
408	250mm long	409	300mm long
406	Universal Joint 1" Square Drive		
301	Rubber Ring	299	Steel Pin 49mm long
299/1	Steel Pin 57mm long	299/2	Steel Pin 67mm long
NOGO	Master35 No Go Gauge		