

## PROVEN RELIABILITY

The **NEW** Master 35<sup>®</sup> 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 Chairscrews and Fishplate Nuts in under three seconds and using one of our Safety Quick Release Auger Attachment drill holes in Wooden Sleepers. 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.

Impact Wrenches, Tool Carriers, Spare Parts and Accessories are available from stock held by our partner Distributors throughout the World



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

### ACCESSORIES

See reverse side of this leaflet

### TECHNICAL SPECIFICATION

<b>DIMENSIONS</b>	Length 600mm	Height 284mm	Width 452mm
<b>ENGINE</b>	Two stroke/cycle Special Airtec EMAK 63.4 c.c. complying with EUR5 and EPA3 Standards		
<b>POWER</b>	4.70 HP	3.5kW	
<b>FASTENER TYPE</b>	Bolt	16 to 32mm diameter	
	Rectangular	all sizes	
	Hexagon	Up to 83mm	
	Square/Bi-Square	Up to 67mm	
<b>NOISE LEVELS</b>	Operation levels based on ISO3744 Acoustic Pressure (LpA) 101.7 dBA Power (LWA) 114.8 dBA <b>Always wear ear protection</b>		
<b>SQUARE DRIVE</b>	Standard 1"		
<b>TORQUE RANGE</b>	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.		

<b>VIBRATION EXPOSURE</b>					
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.					
<b>Fishplates/Joint Bar Nuts – 2.25 seconds</b>					
		AV		LV	
	Vibration	Trigger Time Minutes	No of Fasteners	Trigger Time Minutes	No of Fasteners
<b>Tightening</b>	12.28m/s <sup>2</sup>	20	533	80	2133
<b>Loosening</b>	11.05m/s <sup>2</sup>	25	667	98	2613
<b>Chairscrews/Lagscrews – 2.5 seconds</b>					
		AV		LV	
	Vibration	Trigger Time Minutes	No of Fasteners	Trigger Time Minutes	No of Fasteners
<b>Tightening</b>	11.90m/s <sup>2</sup>	21	504	85	2040
<b>Loosening</b>	14.72m/s <sup>2</sup>	14	336	55	1320
<b>WEIGHT</b>		17.9 Kgs			

# MASTER 35® ACCESSORIES

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 up to S/No. ATE20 A105		
2801.7565	Master 35 Tool Carrier Accessory Vertical for Chairscrews from S/No. MA20 A001		
2801.7560	Master 35 Tool Carrier Accessory Horizontal for Fishplate Nut		
<b>BOX</b>	<b>Metal Carrying Box with hinged lid and rubber stripe on base</b>		
<b>AUG</b>	<b>Augering Attachment Quick Release 9mm Hex European</b>	<b>GEISAUG</b>	<b>Augering Attachment Quick Release Graffenstaden</b>
	<b>Auger Bits Scotch Nose Premium</b>		<b>Auger Bits Graffenstaden Shank</b>
	245mm long		
S10	10mm dia	14G	14mm
S13	13mm dia	16G	16mm
S16	16mm dia	18G	18mm
S17	17mm dia		
S18	18mm dia		
S19	19mm dia		
S22	22mm dia		
	<b>Impact Sockets 1" Square Drive</b>		<b>Quick Release Sockets 23mm Square Drive</b>
454	28 x 21mm Rectangular Standard	782128SP	28 x 21mm Rectangular
454D	28 x 21mm Rectangular Deep	782128DSP	28 x 21mm Rectangular Deep
454S	28 x 21mm Rectangular Thin Wall	782128SBUT	28 x 21mm Rectangular Butterfly
454/2BUT	28 x 21mm Rectangular Butterfly	782128DSBUT	28 x 21mm Rectangular Butterfly Deep
454/2DBUT	28 x 21mm Rectangular Butterfly Deep	782420SP	24 x 20mm Rectangular
511	24 x 20mm Rectangular	782530SPBUT	35 x 23mm Rectangular Butterfly
454/39	Rectangular/Hex 1" Sq Drx21x28mm+39mm	7820SP	20mm Square
454/41	Rectangular/Hex 1" Sq Drx21x28mm+41mm	7821SQSP	21mm Square
537	19mm Square	7878SQSP	22mm Square
478	20mm Square	7823SP	23mm Square
463/1	21mm Square	781516DSQSP	23mm Square Deep
463/2	21mm Square Deep	7824SQSP	24mm Square
453	22mm Square	7824SQSP1	24mm Square Deep
430SQ	22mm Square Deep	781SQSP	25mm Square
455	23mm Square	7825DSP	25mm Square Deep
485SQ	23mm Square Deep	7827SP	27mm Square
462	24mm Square	7832SP	32mm Hex
508	25mm Square	7832DSP	32mm Hex Deep
425SQ	25mm Square Deep	7834SP	34mm Hex
561	26mm Square	7835SP	35mm Hex
493	27mm Square	7836SP	36mm Hex
562	28mm Square	7836DSP	36mm Hex Deep
516	32mm Square	7838SP	38mm Hex
514	38mm Square	7838DSP	38mm Hex Deep
517	42mm Square	7839SP	39mm Hex
531	49mm Square	7839DSP	39mm Hex Deep
464	50mm Square	7840SP	40mm Hex
496	30mm Hex	7841SP	41mm Hex
712	30mm Hex Deep	7841DSP	41mm Hex Deep
447	32mm Hex	7842SP	42mm Hex
495	32mm Hex Deep	7842DSP	42mm Hex Deep
714	33mm Hex	7844SP	44mm Hex
498	34mm Hex	7846SP	46mm Hex
728	34mm Hex Deep		
479	35mm Hex	SPADAP	<b>Adaptor 1" Female to 23mm Square Quick Release</b>
450	36mm Hex		
466	36mm Hex Deep		<b>Extensions 1" Square Drive</b>
499	37mm Hex	414	150mm long
451	38mm Hex	408	250mm long
465	38mm Hex Deep	407	200mm long
456	39mm Hex	409	300mm long
457	39mm Hex Deep		
473	40mm Hex	406	<b>Universal Joint 1" Square Drive</b>
529	40mm Hex Deep		
452	41mm Hex	301	<b>Rubber Ring</b>
458	41mm Hex Deep		
449	42mm Hex		<b>Steel Pin</b>
470	42mm Hex Deep	299	<b>49mm long</b>
507	44mm Hex	299/1	<b>57mm long</b>
564	44mm Hex Deep	299/2	<b>67mm long</b>
501	45mm Hex		
503	45mm Hex Deep	NOGO	<b>Master 35® No Go Gauge</b>
448	46mm Hex		
459	46mm Hex Deep		
525	50mm Hex		



We manufacture many other special sizes and types of Impact Sockets and Auger Bits. Please send us your enquiry