

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 Always wear ear protection		
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
	MASTER 35 TOOL CARRIER		IMPACT SOCKETS 1" SQUARE DRIVE (continued)
1750.0100	Standard Gauge	503	45mm Hex Deep
1750.0090	Narrow Gauge	448	46mm Hex
1750.9999	Broad Gauge	459	46mm Hex Deep
2801.7550	Master 35 Tool Carrier Accessory Vertical for Chairscrews up to S/No. ATE20 A105	525	50mm Hex
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	GEISAUG	Augering Attachment Quick Release Graffenstaden
BOX	Metal Carrying Box with hinged lid and rubber strips on base		
			AUGER BITS GRAFFENSTADEN SHANK
AUG	Augering Attachment Quick Release 9mm Hex European	14G	14mm
		16G	16mm
	AUGER BITS SCOTCH NOSE PREMIUM (245MM LONG)	S18G	18mm
S10	10mm dia		QUICK RELEASE SOCKETS 23MM SQUARE DRIVE
S13	13mm dia		
S16	16mm dia	782128SP	28 x 21mm Rectangular
S17	17mm dia	782128DSP	28 x 21mm Rectangular Deep
S18	18mm dia		
S19	19mm dia	782128SBUT	28 x 21mm Rectangular Butterfly
S22	22mm dia		
		782128DSBUT	28 x 21mm Rectangular Butterfly Deep
	IMPACT SOCKETS 1" SQUARE DRIVE		
402	1 1/8" bi-square	782420SP	24 x 20mm Rectangular
403	1 5/16" bi-square	782530SPBUT	35 x 23mm Rectangular Butterfly
404	1 3/8" bi-square		
405	1 11/16" bi-square	7820SP	20mm Square
454	28 x 21mm Rectangular Standard	7821SQSP	21mm Square
454D	28 x 21mm Rectangular Deep	7878SQSP	22mm Square
454S	28 x 21mm Rectangular Thin Wall	7823SP	23mm Square
454/2BUT	28 x 21mm Rectangular Butterfly	781516DSQSP	23mm Square Deep
454/2DBUT	28 x 21mm Rectangular Butterfly Deep	7824SQSP	24mm Square
511	24 x 20mm Rectangular	7824SQSP1	24mm Square Deep
454/39	Rectangular/Hex 1" Sq Drx21x28mm+39mm	7815SQSP	25mm Square
454/41	Rectangular/Hex 1" Sq Drx21x28mm+41mm	7825DSP	25mm Square Deep
537	19mm Square	7827SP	27mm Square
478	20mm Square	7832SP	32mm Hex
463/1	21mm Square	7832DSP	32mm Hex Deep
463/2	21mm Square Deep	7834SP	34mm Hex
453	22mm Square	7835SP	35mm Hex
430SQ	22mm Square Deep	7836SP	36mm Hex
455	23mm Square	7836DSP	36mm Hex Deep
485SQ	23mm Square Deep	7838SP	38mm Hex
462	24mm Square	7838DSP	38mm Hex Deep
508	25mm Square	7839SP	39mm Hex
425SQ	25mm Square Deep	7839DSP	39mm Hex Deep
561	26mm Square	7840SP	40mm Hex
493	27mm Square	7841SP	41mm Hex
562	28mm Square	7841DSP	41mm Hex Deep
516	32mm Square	7842SP	42mm Hex
514	38mm Square	7842DSP	42mm Hex Deep
517	42mm Square	7844SP	44mm Hex
531	49mm Square	7846SP	46mm Hex
464	50mm Square		
496	30mm Hex	SPADAP	Adaptor 1" Female to 23mm Square Quick Release
712	30mm Hex Deep		
447	32mm Hex		
495	32mm Hex Deep		EXTENSIONS 1" SQUARE DRIVE
714	33mm Hex	414	150mm long
498	34mm Hex	408	250mm long
728	34mm Hex Deep	407	200mm long
479	35mm Hex		
450	36mm Hex	409	300mm long
466	36mm Hex Deep		
499	37mm Hex	406	Universal Joint 1" Square Drive
451	38mm Hex		
465	38mm Hex Deep	301	Rubber Ring
456	39mm Hex		
457	39mm Hex Deep		
473	40mm Hex		STEEL PIN
529	40mm Hex Deep	299	49mm long
452	41mm Hex	299/1	57mm long
458	41mm Hex Deep	299/2	67mm long
449	42mm Hex		
470	42mm Hex Deep	NOGO	Master 35° No Go Gauge
507	44mm Hex		
564	44mm Hex Deep		
501	45mm Hex		