

# Shellplant

Est. 1972

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**46 Years of Trading**



**[www.shellplant.co.uk](http://www.shellplant.co.uk)**

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## About Us

Established in 1972 as an independent organisation Shellplant has grown in strength over many years of trading. Based in Earls Barton, Northamptonshire, we have grown our original site and operate out of our purpose built facility offering Showroom Trade counter and fully equipped workshops. Originally selling used equipment in the early seventies, over the years we have been selected by the leading brands from the industry to represent and support their products. In 2011 we sold our 1000th new Kubota excavator and continue to supply their market leading products. In the early years we represented Winget for their complete range and still offer their mixers today. Thwaites Dumpers and Atlas Copco's full range add to our market leading portfolio.

Our engineers are factory trained to ensure the highest support to back up the machines we sell, offering both on site and in house repair and servicing, A well stocked parts department meanwhile ensures downtime is kept to a minimum. Our 44 year history selling machines and parts has given us the knowledge required and helps us source parts for many of the older machines we have sold.

Staff are the key to our success and we continue to bring younger members into the team to learn from our long serving staff and help us grow and continue to offer 1st class service going forward.

Our policies have given us the financial stability and in-house skills to ensure we can offer leading brands of equipment with confidence at extremely competitive prices.

Our history and experience, alongside our market leading portfolio, underpin our continued support to you - our customer.





## Service

At Shellplant we offer a number of options to help keep your equipment running and reduce potential breakdowns which can cause unnecessary downtime.

It is essential that general maintenance and routine servicing are carried out to manufacturers recommended schedules, if only to ensure maximum performance from your equipment.

Through our fully equipped service vans & workshop we are able to carry out all maintenance, servicing and repairs.

### Fixed Price Servicing

We currently offer fixed priced servicing for all Kubota Excavators. This price includes all oils, filters labour and consumables. Additional charges (see below) for travel and mileage would apply to services carried out on site.

### Contract Servicing

Service packages are available to meet individual requirements. For further information speak to one of our service advisors.

### All Makes Servicing

Whatever make of machine you own we are able carry out all servicing and repairs as required.

### Safety Inspections

For a fixed price we can carry out a full inspection of your machine and highlight any repairs that may be required to return your machine to safe working order. Once repaired we shall issue a laminated certificate

### Winter Check

During the winter months we can carry out charging, starting and coolant system checks to protect your machine during the colder weather and reduce starting issues and weather related breakdowns.

### Other Repairs

Shellplant can carry out all types of repairs on all makes of machine, either on site or in our own workshop. In the first instance we will investigate and diagnose the fault. We will then quote for the cost of repair work.

***To arrange a service, repair, site visit or for any technical help and information please contact Charlie or one of his team on 01604 811309.***

## Parts Department

As main dealers we can offer you the very best deals on genuine parts for:

Kubota , Thwaites, Atlas Copco, Norton Clipper, Winget, Yanmar, Auger Torque and Stihl.

We are also specialists in BARFORD DUMPER parts and hold many items in stock!

We can supply parts & accessories for all makes of plant equipment.

### QUICK GUIDE TO ENSURE WE CAN HELP YOU QUICKLY

- MACHINE MAKE AND MODEL  
ie KUBOTA KX41 OR KX41-2 OR KX41-2 ALPHA
- SERIAL NUMBER  
(IF YOU ARE UNABLE TO LOCATE YOUR SERIAL NO PLEASE CALL US AND WE WILL ADVISE ITS LOCATION)
- PART NUMBER IF POSSIBLE

### QUICK DELIVERY

Shellplant currently hold 5000 live item parts for the following agencies:

KUBOTA, THWAITES WINGET, DYNAPAC,STIHL, NORTON CLIPPER, BARFORD, CP (CHICAGO PNEUMATIC), ATLAS COPCO, HONDA.

We can also supply parts for the following manufacturers:

HATZ, YANMAR, BENFORD, SANDERSON, PROBST and more...

- We can offer very competitive prices on Rubber Tracks for most machines
- We can supply Cab Guards for all machines
- We stock a large range of Norton Clipper diamond blades.
- Advice is available for applications so you receive the correct blade for the correct job.
- The parts department are delighted with the latest appointment by THWAITES. We have been supplying parts for their machines for many years and this new appointment strengthens our backup and knowledge in supporting these products.

## **REPLACEMENT PARTS SPECIALISTS**

***We are the world's leading supplier of genuine O.E. Barford parts.***

## Mick's Top Tips

If you have problems with any of your equipment you might not need to buy a new machine. Have a look at Mick's top tips below to see if there is something simple you can do to get your equipment back up and running. ***If you need PARTS or SERVICE just give us a call.***

### Can red or white diesel be used in common-rail engines?

Clean diesel is more important than ever with new common-rail engines, contamination can be very expensive. Diesel type not crucial.

### How often do you change your final drive oil on a Kubota?

Always change final drive oil at 500hrs as per manual, regularly overlooked at service! This applies to ALL KUBOTA'S EXCEPT K008-3 and U10-3 which are sealed.

### If the exhaust overheat warning light appears on your display panel what should be the procedure?

Do not switch off the engine on KX080-4 when re-generation DPF is showing exhaust overheat on panel let machine complete cycle.

### What oil do I use in my Atlas Copco air-end?

The oil we recommend is Atlas Copco PAROIL Xtreme which is a Synthetic Compressor Oil.

### What fuel mix is best for my Stihl Saw/Chainsaw?

The correct mix for the Stihl TS400 & TS410 and chainsaws is 1:50 mix. We recommend the genuine Stihl Oil.

### Can I fit road lights to my Thwaites dumper?

Yes you can, we supply road light kits to fit the range of dumpers please contact us with your mach code (taken from the serial number) and we will quote you.

### Help me, my machine will not start?

If your machine won't start please check the stop button has not been pressed!

### What oil do I put in my Tier 111 engine in my KX080-4 or Thwaites Dumper...?

For both the Kubota KX080-4 & the 6 & 9 ton dumpers fitted with the Deutz stage 111b Engine you need 10w-40 CJ4. Do NOT put std 10w-40 in your machine!!

### What bucket pin size is my Kubota? See page 22.

- KX36-2/ kx36-3/ KX41-2: ALL 25mm • KX41-3/ KX015-4/ KX016-4/ KX018-4/ U17-3: ALL 30mm
- U20-3/ U25-3/ KX61-3: ALL 30mm • KX71-3: 35mm • KX91-3/ KX101-3/ KX121-3: ALL 40mm
- KX161-3/ U50-3/ U48-4/ U55-4/ KX057-4: ALL 45mm

### What is the red key for on my Kubota?

The red key is a programming key ONLY, it will not start the machine! It is used to re-programme the black keys. When buying a used Kubota with Anti-theft key system be sure to ask for the RED KEY!

### What grease do I use on my Atlas Copco breaker?

You will need a high melting point grease such as that available from our Parts department. This product will be suitable for all sized breakers!





# Kubota

Formed in 1979 and based at Thame, Oxfordshire, Kubota (U.K.) Limited is a subsidiary of the Kubota Corporation, which was established in 1890 as a manufacturer of cast-iron water pipes in Osaka, Japan. In the early 1900s, the Kubota Corporation turned its attention towards powered equipment. The tremendous expertise and experience gained over the past century has led to many important product developments, helping reinforce Kubota's position as the number one world-wide within the various market sectors it serves.

Dedicated support for Kubota equipment starts at Kubota (U.K.)'s Oxfordshire headquarters, which house the company's sales and marketing teams, distribution, service and parts support, training and product development for the UK and Irish markets. The efficiency of the Thame operation was recognised in 1996 when Kubota (U.K.) Limited was awarded ISO 9002 accreditation for its quality systems. Today, Kubota remains the best selling mini excavator in the UK, and this is down to the highest of manufacturing standards in its Japanese and European factories, product reliability, durability and low running costs as well as excellent resale values.

## **Zero Tail Swing**

Tough job got you in a corner? Put a U-Series to work on it. Zero-tail swing keeps the tail within the width of the tracks, so you can turn the machine throughout its 360-degree turning radius without worrying about what is to the side or behind you. Zero-tail swing also ensures excellent balance, stability and fast operation, making the U-Series ideal for jobs in congested urban areas.

## **Anti Theft System**

All Kubota mini excavators feature the 'ANTI-THEFT PLUS' security system integrated into the machines - they are built to achieve 'Thatcham' endorsement.

The coveted Thatcham certification is recognised by insurers and should result in substantial discounts on premiums for users of Kubota mini excavators.

## Tracked Dumpers



### KC70-4

Compact, powerful and designed for optimum comfort, the new Kubota KC70-4 saves you time and trouble. Five versions are available: H/HV/VHD/SL/VSL.

Unloading operation is fast and easy. The profile of the skip has been designed to ensure a quick discharge of the material. With a dumping angle of 88°, all materials exit easily from the skip.

With an overall width of only 758 mm, the KC70-4 efficiently transports material through gates and doorways, between houses, buildings and many other narrow spaces.



Model		KC70H-4	KC70HV-4	KC70VHD-4	KC70SL-4	KC70VSL-4
Service weight	kg	580	660	740	655	735
Overall length	mm	1860/2074	1860/2074	2010/2224	1862/2106	1892/2106
Overall height	mm	1300	1300	1625	1563	1563
Overall width	mm	758	758-1058	758-1058	758	758-1058
Max. loading capacity	kg	700	700	550	700	700
Skip tipping system		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Dumping direction		Front	Front	Front	Front	Front
Dumping height	mm	450	450	1355	431	431
Transmission	Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Hydraulic pump	2 gear	2 gear	2 gear	2 gear	2 gear
	Flow (each pump) l/min	2 x 14.2	2 x 14.2	2 x 14.2	2 x 14.2	2 x 14.2
	Hydraulic motors	Orbital	Orbital	Orbital	Orbital	Orbital
	Max. pressure bar	165	165	165	165	165
Travelling speed (Forward / Reverse)	Main valve	4 sections	5 sections	6 sections	5 sections	6 sections
	1st speed km/h	0 - 2.6	0 - 2.6	0 - 2.6	0 - 2.6	0 - 2.6
	2nd speed km/h	0 - 3.8	0 - 3.8	0 - 3.8	0 - 3.8	0 - 3.8
	Max. gradeability	Front 15° / Side 20°	Front 15° / Side 20°	Skip down 15° / Skip up 8°	15°	15°
Fuel tank capacity	l	5.5	5.5	5.5	5.5	5.5
Hydraulic oil tank capacity	l	27	27	27	27	27
Ground pressure	Unloaded gr/cm <sup>2</sup>	180	205	230	203	228
	Loaded gr/cm <sup>2</sup>	398	423	401	421	446

## RT Series Wheeled Loaders



The RT series comprises six models all powered by Kubota engines, from 20-44hp.

Power from the Stage 3b compliant engines goes through a Bosch Rexroth hydrostatic drive system to four Poclain wheel motors, and the chassis features an integrated counterweight and reinforced pivoting articulation point. A limited slip differential gives more grip in tricky conditions and boosts pushing force, says the manufacturer.

The compact machines offer 450-1,500kg lift capacity, with a tipping load of up to 2,100kg and lift height of 2.5m on the largest RT280 loader, which can also travel at up to 25kph.

Kubota is also offering a range of implements including round and square bale handlers, muck buckets, forks and a high tip bucket.

The smallest model is only available with a ROPS canopy, but a cab can be specified on the others, and there is a choice of seat plus working and road lights.

Ride control boom suspension is a useful option for carting muck around uneven yards, says the firm, while other extras include a three-point linkage, hydraulically driven pto and a hydraulic outlet for tools such as breakers.

With an overall width of 960mm and height of 2,070m on the smallest RT100 loader, these loaders could come in handy on intensive pig and poultry units or as general run arounds on farms with traditional buildings too tight for a bigger machine.





Model			RT100	RT140	RT150
Machine weight	Cabin/canopy	kg	1175 / -	1599 / -	1599 / 1705
Earth bucket capacity		m <sup>3</sup>	0.23	0.32	0.37
Engine	Model		D722	D1105	D1105-T
	Type		Water cooled, diesel	Water cooled, diesel	Water cooled, diesel
	Output	PS/rpm	20/2200	26/2050	33/2050
		kW/rpm	15/2200	19/2050	23.5/2050
	No of cylinders		3	3	3
Transmission			Hydrostatic	Hydrostatic	Hydrostatic
Overall length	With Bucket	mm	2860	3360	3360
Overall height		mm	2070	2170	2170
Overall width		mm	960	1100	1160
Dumping height		mm	1410	1825	1825
Max lifting height	at hinge pin	mm	2170	2560	2560
Max lifting height	at hinge bucket	mm	2980	3140	3140
Performance with pallet fork	Tipping load in full turn position	kg	375	340	340
	Lifting capacity	kN	6.1	10.0	10.0
	Breaking force	kN	11.5	15.0	15.0
Travel speed		km/h	0-12	0-12	0-12
Articulation angle		deg.	5.3	5.0	5.0
Auxiliary circuit	Max. Flow rate	l/min	28	42	42
	Oil pressure	bar	150	150	170
Fuel tank capacity		l	42	25	25
Hydraulic tank capacity		l	52	46	46

Model			RT210	RT270	RT280
Machine weight	Cabin/canopy	kg	2113 / 2213	2670 / 2820	2620 / 2770
Earth bucket capacity		m <sup>3</sup>	0.38	0.42	0.42
Engine	Model		D1105-T	V1505-T	V1505-T
	Type		Water cooled, diesel	Water cooled, diesel	Water cooled, diesel
	Output	PS/rpm	33/2050	44/2000	44/2000
		kW/rpm	23.5/2050	33/2000	33/2000
	No of cylinders		3	4	4
Transmission			Hydrostatic	Hydrostatic	Hydrostatic
Overall length	With Bucket	mm	2890	3247	3316
Overall height		mm	2270	2330	2330
Overall width		mm	1280	1320	1320
Dumping height		mm	1990	2144	1735
Max lifting height	at hinge pin	mm	2800	2964	2498
Max lifting height	at hinge bucket	mm	3390	3532	3070
Performance with pallet fork	Tipping load in full turn position	kg	500	970	1167
	Lifting capacity	kN	15.0	15.5	21.7
	Breaking force	kN	16.5	27.0	23.5
Travel speed		km/h	0-18	0-25	0-25
Articulation angle		deg.	6.3	8.8	8.8
Auxiliary circuit	Max. Flow rate	l/min	42	51	51
	Oil pressure	bar	170	210	210
Fuel tank capacity		l	37	47	47
Hydraulic tank capacity		l	55	54	54

## Micro Range

### K008-3

Super-compact and highly reliable; the efficient Kubota K008-3, with its enhanced operator protection, is the choice for tough jobs where space is limited.

### U10-3

Ultra-compact with enhanced operator protection; the efficient and easy-to-use Kubota U10-3 with zero tail swing is the mini-excavator you can count on to get the job done.

### U10-3SL

The new "SL" version with side lever offers an optimal comfort to the operator.



# Kubota

Model			K008-3	U10-3 & U10-3 SL
Machine weight	Canopy	kg	980	1120
Engine	Model		D722-BH-5	D722-BH-6
	Type		Water cooled, diesel E-TVCS	Water-cooled, diesel engine E-TVCS (Economical, ecological type)
	Output	PS/rpm	10.2/2050	10.2/2050
	ISO9249	kW/rpm	7.4/2050	7.4/2050
	No of cylinders		3	3
Overall length		mm	2750	2980
Machine width		mm	700-860	750-990
	Canopy	mm	2230	2230
Hydraulic pumps	P1, P2		Gear type	Gear type
	Flow rate	l/min	10.5 + 10.5	10.5 + 10.5
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	16.7 (170)	17.6 (180)
	P3		-	Gear type
	Flow rate	l/min	-	3.1
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	-	2.9 (30)
Max. digging force	Arm	kN (kgf)	4.5 (460)	5.4 (550)
	Bucket	kN (kgf)	9.8 (1000)	10.4 (1060)
Max. digging depth		mm	1720	1800
Auxiliary circuit	Max. Flow rate	l/min	21.0	21.0
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	170	180
Hydraulic reservoir		l	12.5	12.5
Fuel tank capacity		l	12	12
Max. Travelling speed	Low	km/h	2.0	2.0
	High	km/h		4.0

## 1.5 Tonne Range



### KX015-4 / KX016-4

The KX015-4 and KX016-4 mini excavators deliver a powerful digging force and a wider working range that rival higher end excavators. And with enhanced accessibility to sites such as roadsides or residential areas, these versatile machines get the job done easier and efficiently.



Model			KX015-4	KX016-4
Machine weight	Cabin/canopy	kg	1470/1420	1540/1490
Engine	Model		D782-BH	D782-BH
	Type		Water cooled, diesel, E-TVCS	Water cooled, diesel, E-TVCS
	Output	PS/rpm	13/2300	13/2300
	ISO9249	kW/rpm	9.6/2300	9.6/2300
	No of cylinders		3	3
Overall length		mm	3710	3710
Overall height	Cabin	mm	2350	2350
	Canopy	mm	2330	2330
Machine width		mm	990	990-1240
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
	Flow rate	l/min	16.6 + 16.6	16.6 + 16.6
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210)	20.6 (210)
	P3		Gear type	Gear type
	Flow rate	l/min	10.4	10.4
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.1 (205)	20.1 (205)
Max. digging force	Arm	kN (kgf)	7.3 (740)	7.3 (740)
	Bucket	kN (kgf)	12.7 (1300)	12.7 (1300)
Max. digging depth		mm	2250	2250
Auxiliary circuit	Max. Flow rate	l/min	27	27
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210)	20.6 (210)
Hydraulic reservoir		l	28	28
Fuel tank capacity		l	21	21
Max. Travelling speed	Low	km/h	2.1	2.1
	High	km/h		3.8



## 1.8 Tonne Range

### U17-3

The advanced U17-3 offers superior versatility and performance to take on almost any task.

### KX018-4 / KX019-4

The KX018-4 / KX019-4 mini excavators raise the standard in the 1.5-2.0 tonne category with a powerful digging force and a wider working range that rival higher-end excavators, offering enhanced accessibility and manoeuvrability.




Model		U17-3	KX018-4	KX019-4	
Machine weight	Cabin/canopy	kg	1650	1720/1620	1780/1680
Engine	Model		D902	D902-BH	D902-BH
	Type		Water cooled, diesel	Water cooled, diesel, E-TVCS	Water cooled, diesel, E-TVCS
	Output	PS/rpm	16/2300	16/2300	16/2300
	ISO9249	kW/rpm	11.8/2300	11.8/2300	11.8/2300
	No of cylinders		3	3	
Overall length		mm	3545	3710	3870
Overall height	Cabin	mm	-	2350	2350
	Canopy	mm	2330	2330	2330
Machine width		mm	990-1240	990-1300	990-1300
Hydraulic pumps	P1, P2		Variable Displacement Pump	Variable Displacement Pump	Variable Displacement Pump
	Flow rate	l/min	17.3 + 17.3	17.3 + 17.3	17.3 + 17.3
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )		21.6 (220)	21.6 (220)	21.6 (220)
	P3		Gear type	Gear type	Gear type
	Flow rate	l/min	10.4	10.4	10.4
Max. digging force	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )		18.6	20.6 (210)	20.6 (210)
	Arm	kN (kgf)	8.5 (865)	8.3 (840)	7.8 (790)
	Bucket	kN (kgf)	15.2 (1550)	15.9 (1620)	15.9 (1620)
Max. digging depth		mm	2460	2380	2580
Auxiliary circuit	Max. Flow rate	l/min	27.7	27.7	27.7
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )		18.6	21.6 (220)	21.6 (220)
Hydraulic reservoir		l	21	28	28
Fuel tank capacity		l	19	21	21
Max. Travelling speed	Low	km/h	2.2	2.2	2.2
	High	km/h	4.1	4.0	4.0

## 2-3 Tonne Range

### U20-3a / U27-4

The U20-3a and U27-4 mini excavators are ready for work, offering precision control for restricted working and a host of advanced features that deliver superior performance and efficiency. With high reliability and low operating costs these minis are ideal for a wide range of jobs.



**Kubota**



Model		U20-3a	U27-4
Machine weight	Cabin/canopy kg	2380/2180	2590/2490
Engine	Model	D1105-E2-BH-12	D1105-E4BH-2
	Type	Water cooled, diesel, E-TVCS	Water cooled, diesel, E-TVCS
	Output PS/rpm	19/2200	21.2/2400
	ISO9249 kW/rpm	14/2200	15.6/2400
	No of cylinders	3	3
Overall length	mm	3850	4190
Overall height	Cabin mm	2360	2430
	Canopy mm	2380	2420
Machine width	mm	1300-1500	1500
Hydraulic pumps	P1, P2	Variable displacement pump	Variable displacement pump
	Flow rate l/min	23 + 23	28.8 + 28.8
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	21.6 (220)	21.6 (220)
	P3	Gear type	Gear type
	Flow rate l/min	12.8	19.2
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	20.6 (210)	17.2 (175)
Max. digging force	Arm kN (kgf)	13.2 (1350)	12.3 (1260)
	Bucket kN (kgf)	18.4 (1880)	21 (2140)
Max. digging depth	mm	2820	2820
Auxiliary circuit	Max. Flow rate l/min	35.8	48
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	21.6 (210)	17.2 (175)
Hydraulic reservoir	l	22	22
Fuel tank capacity	l	28	33
Max. Travelling speed	Low km/h	2.2	2.4
	High km/h	4.2	4.5

## 2-3 Tonne Range



### KX027-4 / KX71-3

The KX027-4 and KX71-3 deliver the largest digging depth and reach of all mini-excavators with a long arm in the 2-3 tonne weight category. Even with the long arm, these machines generate the largest power in their class for both arm and bucket digging. Additionally these machines offer impressive lifting power and include a host of robust features for a high performance package.



Model			KX027-4	KX71-3
Machine weight	Cabin/canopy	kg	2590/2520	2800/2695
Engine	Model		V1505-E4	V1505-E2-BH-10EU
	Type		Water-cooled, diesel engine	Water-cooled, diesel engine
	Output	PS/rpm	24.4/2250	27.5/2300
	ISO9249	kW/rpm	17.5/2250	20.5/2300
	No of cylinders		4	4
Overall length		mm	4370	4550
Overall height	Cabin	mm	2420	2410
	Canopy	mm	2420	2430
Machine width		mm	1400	1500
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
	Flow rate	l/min	29.3 x 2	32.2+32.2
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	22.5 (230)	23.5 (240)
	P3		Gear type	Gear type
	Flow rate	l/min	18.0	18.4
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	17.2 (175)	20.6 (210)
Max. Digging force	Arm	kN (kgf)	12.9 (1320)	17.5 (1790)
	Bucket	kN (kgf)	22.1 (2250)	25.2 (2570)
Max. digging depth		mm	2740	2870
Auxiliary circuit Max.	Flow rate	l/min	47.3	50.6
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	22.5 (230)	20.6 (210)
	Hydraulic reservoir	l	34	34
	Fuel tank capacity	l	48	45
Max. Travelling speed	Low	km/h	2.7	2.7
	High	km/h	4.6	4.6



## 2.5-3.5 Tonne Range



### KX030-4

As a compact excavator that doesn't compromise on power or performance, it'll give you the ability to work with remarkable ease and efficiency.



### U36-4

With a spacious new 5-tonne class deluxe cab, the 3.5-tonne U36-4 compact excavator brings more comfort and luxury to almost any challenge.



Model			KX030-4	U36-4
Machine weight	Cabin/canopy	kg	2790/2720	3755/3575
Engine	Model		V1505-E4	D1703-M-DI-E4
	Type		Water-cooled, diesel engine	Liquid-cooled, diesel engine
	Output	PS/rpm	24/2250	24.7/2200
	ISO9249	kW/rpm	17.7/2250	17.8/2300
	No of cylinders		4	3
Overall length		mm	4570	4910
Overall height	Cabin	mm	2420	2480
	Canopy	mm	2420	2480
Machine width		mm	1500	1700
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
	Flow rate	l/min	31.5 x 2	81.4
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	23.5 (240)	24.5 (250)
	P3		Gear type	Gear type
	Flow rate	l/min	18.0	20.9
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	19.6 (200)	19.6 (200)
Max. Digging force	Arm	kN (kgf)	16.2 (1650)	17.1 (1740)
	Bucket	kN (kgf)	25.4 (2590)	30.0 (3060)
Max. digging depth		mm	2870	3410
Auxiliary circuit Max.	Flow rate	l/min	49.5	61.6
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	23.5 (240)	20.6 (210)
	Hydraulic reservoir	l	34	35.7
	Fuel tank capacity	l	48	45.1
Max. Travelling speed	Low	km/h	2.9	3.0
	High	km/h	4.5	4.6

## 3.5 Tonne Range



### U35-3a3

Kubota's U35-3a3 is the excavator of choice for smooth simultaneous operation, powerful digging force, and superb attachment versatility.

### KX101-3a4

With smooth simultaneous operation, powerful digging force, and outstanding attachment versatility, this excavator brings high performance to a whole new level.



Model		U35-3a3	KX101-3a4
Machine weight	Cabin/canopy kg	3590/3480	3520/3410
Engine	Model	D1803-M-E3-BH-EU1	D1803-M-E3-BH-EU1
	Type	Water cooled, diesel, E-TVCS	Water cooled, diesel, E-TVCS
	Output PS/rpm	31.1/2300	31.1/2300
	ISO9249 kW/rpm	22.9/2300	22.9/2300
	No of cylinders	3	3
Overall length	mm	4865	4920
Overall height	Cabin mm	2440	2440
	Canopy mm	2440	2440
Machine width	mm	1700	1550
Hydraulic pumps	P1, P2	Variable displacement pump	Variable displacement pump
	Flow rate l/min	96.6	96.6
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	24.5 (250)	24.5 (250)
	P3	-	-
	Flow rate l/min	-	-
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	-	-
Max. digging force	Arm kN (kgf)	15.9 (1630)	15.9 (1630)
	Bucket kN (kgf)	31.1 (3180)	31.1 (3180)
Max. digging depth		3350	3100
Auxiliary circuit Max.	Flow rate l/min	55	55
	Hydraulic pressure MPa (kgf/cm <sup>2</sup> )	20.6 (210)	20.6 (210)
	Hydraulic Reservoir l	36	36
Fuel tank capacity	l	41.5	48
Max. Travelling speed	Low km/h	3.0	3.0
	High km/h	4.6	4.6

## 4-5 Tonne Range



### KX042-4

The most environmentally friendly excavator in its class, the KX042-4 incorporates a DPF (Diesel Particulate Filter) to ensure a clean exhaust, plus Kubota's ECO Plus Mode to reduce fuel consumption. The KX042-4 is also performance friendly, with a powerful and reliable engine and the versatility you need for every job on the work site.



### U48-4

Combining the power for demanding jobs and the versatility to work in any condition, the Kubota U48-4 is ready to take on any challenge. This advanced 4.7 tonne machine is designed with excellent stability to work efficiently even where space is confined. With superior digging and lifting power, together with smooth travel performance, this Kubota truly has it all.



Model			KX042-4	U48-4
Machine weight	Cabin/canopy	kg	4125	4775
Engine	Model		D1803-CR-TE4	V2607-DI
	Type		Water cooled, diesel	Water cooled, diesel
	Output	PS/rpm	39.4/2200	28.8/2200
	ISO9249	kW/rpm	29.0/2200	40.5/2200
	No of cylinders		3	4
Overall length		mm	5085	5330
Overall height	Cabin	mm	2485	2550
Machine width		mm	1700	1960
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
Max. digging force	Flow rate	l/min	92.4	118.8
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	24.5 (250)	24.5 (250)
	P3		-	-
	Flow rate	l/min	65	-
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210)	-
	Arm	kN (kgf)	17.9 (1820)	22.0 (2245)
Max. digging depth	Bucket	kN (kgf)	30.4 (3100)	33.0 (3360)
		mm	3375	3380
Auxiliary circuit Max.	Flow rate	l/min	60	70 (aux1) 37 (aux2)
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	24.5 (250)	20.6 (210)
Hydraulic reservoir		l	42	45
Fuel tank capacity		l	66	68
Max. Travelling speed	Low	km/h	2.8	2.8
	High	km/h	4.9	4.9

## 5-6 Tonne Range

### U55-4 / KX057-4

Highly versatile and extremely powerful, the Kubota U55-4 and KX057-4 are ready to take on any challenge and any condition. These advanced machine are designed with excellent stability to work efficiently even where space is confined.

The U55-4 and KX057-4 offer upgraded digging and lifting power together with smooth operation, for efficient and reliable everyday performance.




Model			U55-4	KX057-4
Machine weight	Cabin/canopy	kg	5400	5545
Engine	Model		V2607-DI	V2607-DI
	Type		Water cooled, diesel	Water cooled, diesel
	Output	PS/rpm	33.8/2200	33.8/2200
	ISO9249	kW/rpm	46.0 (2200)	46.0/2200
	No of cylinders		4	4
Overall length		mm	5500	5520
Overall Height	Cabin	mm	2550	2550
Machine width		mm	1960	1960
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
	Flow rate	l/min	56.1 + 56.1	56.1 + 56.1
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	27.4 (280)	27.4 (280)
	P3		Gear type	Gear pump
	Flow rate	l/min	37.0	37.0
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	19.1 (195)	19.1(195)
Max. Digging force	Arm	kN (kgf)	27.2 (2770)	24.5 (2500)
	Bucket	kN (kgf)	42.3 (4315)	42.3 (4315)
Max. digging depth		mm	3630	
Auxiliary circuit Max.	Flow rate	l/min	75(aux1) / 37(aux2)	75 aux1 / 37 aux2
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210) aux1 / 19.1(195) aux2	20.6 (210) aux1 / 19.1 (195) aux2
Hydraulic reservoir		l	45	45
Fuel tank capacity		l	68	75
Max. Travelling speed	Low	km/h	2.8	2.8
	High	km/h	4.9	4.9



## 8 Tonne Range



### KX080-4a

KX080-4a delivers all the power you need whilst being one of the environmentally friendly excavators in its class. Advanced features include a direct injection diesel engine with common rail system (CRS), a Diesel Particulate Filter (DPF), muffler and a host of other functions and equipment including ECO PLUS for superior fuel economy and productivity.



Model	KX080-a		KX080-4a (2-piece boom)	
Machine weight	Cabin/canopy	kg	8195	8700
Engine	Model		V3307-CR-TE4	V3307-CR-TE4
	Type		Water cooled, diesel engine E-CDIS (with CRS and DPF)	Water cooled, diesel engine E-CDIS (with CRS and DPF)
	Output	PS/rpm	65.0/2000	65.0/2000
	ISO9249	kW/rpm	47.8/2000	47.8/2000
	No of cylinders		4	4
Overall length		mm	6450	6930
Overall height	Cabin	mm	2540	2540
Machine width		mm	2200	2200
Hydraulic pumps	P1, P2		Variable displacement pump	Variable displacement pump
	Flow rate	l/min	72 + 72	72 + 72
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	27.4 (280)	27.4 (280)
	P3		Gear type	Gear type
	Flow rate	l/min	66.6	66.6
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210)	20.6 (210)
Max. Digging force	Arm	kN (kgf)	38.1 (3880)	38.1 (3880)
	Bucket	kN (kgf)	65.2 (6650)	65.2 (6650)
Max. digging depth		mm	4600	4590
Auxiliary circuit Max.	Flow rate	l/min	100 (SP1) / 66.6 (SP2)	100 (SP1) / 66.6 (SP2)
	Hydraulic pressure	MPa (kgf/cm <sup>2</sup> )	20.6 (210)	20.6 (210)
Hydraulic reservoir		l	75	75
Fuel tank capacity		l	115	115
Max. Travelling speed	Low	km/h	2.7	2.7
	High	km/h	4.9	4.9

## Kubota Bucket Spec



Model	Pin Size	Dipper Width	Pin Centres
K008-3	25mm	101mm	85mm
U10-3	25mm	101mm	85mm
KX36-3	25mm	96mm	90mm
KX015-4	30mm	96mm	90mm
KX016-4	30mm	96mm	90mm
KX41-3	30mm	96mm	90mm
U17-3	30mm	96mm	90mm
U25-3	30mm	110mm	140mm
KX61-3	30mm	110mm	140mm
KX71-3	35mm	134mm	136mm
U27-4	35mm	110mm	137mm
KX027-4	35mm	110mm	137mm
U30-3/KX91-3	40mm	134mm	194mm
U35-3/KX101-3	40mm	134mm	194mm
KX121-3	40mm	134mm	180mm
KX042-4	40mm	134mm	180mm
U45-3	45mm	145mm	245mm
U50-3	45mm	145mm	245mm
KX161-3	45mm	145mm	245mm
U48-4	45mm	145mm	245mm
U55-4	45mm	145mm	245mm
KX057-4	45mm	145mm	245mm
KX251	60mm	184mm	292mm
KX080-3	60mm	202mm	300mm
KX080-4	60mm	202mm	300mm

# Kubota Black Key Programming



1. Insert red key into starter switch.

**Do not turn the key at this point. If the key is in the RUN position, turn it back to the STOP position.**

2. Press the display selector switch.
3. The display shows the “Register mode- pull out red key” message
4. Pull out the red key.
5. The display shows “Register mode- insert key” message.
6. Insert black key into the starter switch.

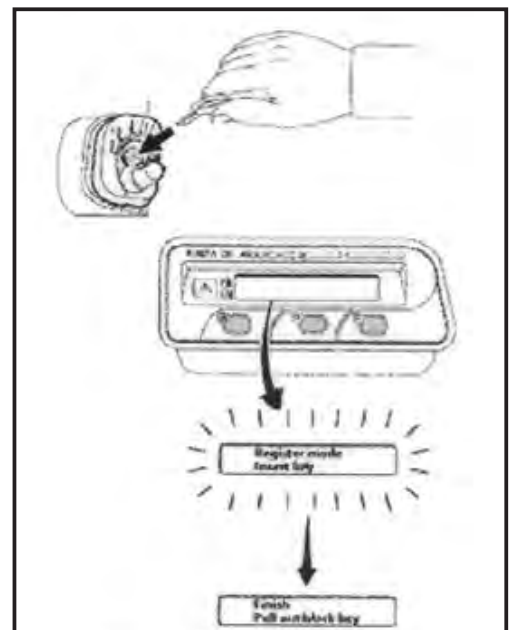
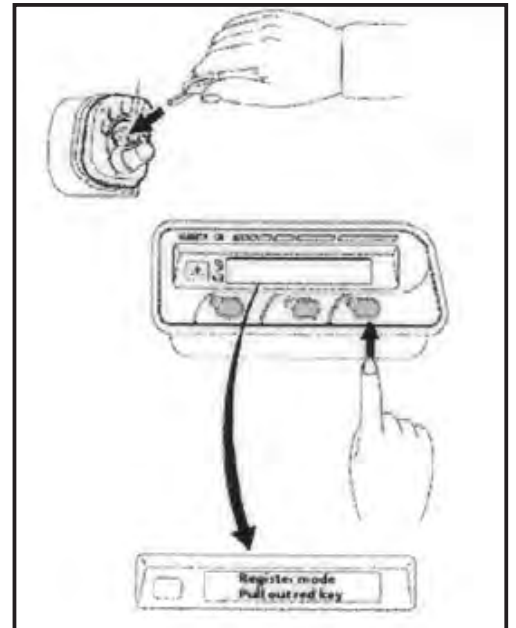
**Do not turn the key at this point. If the key is in the RUN position, turn it back to the STOP position.**

7. The display shows the blinking “Register mode - insert key” message.
8. After a brief moment, the display shows the “Finish - pull out black key” message. This message indicates that the black key was registered for the given vehicle.
9. Once the black key is pulled out of the starter switch, the display will show the “Finish – pull out black key” message.

*Follow steps 5 to 8 to register a spare key. Up to four black keys can be registered.*

10. Turn the key to the RUN position to finish registration procedure.
11. One after the other, insert all registered black keys into the starter switch and check whether the engine can be started using these keys.

**If a registered black key is lost, the other black keys must be re-registered. This procedure locks the lost or stolen black key, which can no longer be used to start the engine.**





Founded in 1924 as a welding repair company WHITES moved into the manufacture of attachments in 1980. Since the acquisition by Precision Profiles in 1992 Whites Material Handling has continually expanded to become one of Europe's largest manufacturers of attachments for Compact Machinery.

The highest quality materials and production methods are used during the manufacturing process, ensuring maximum strength and product durability. Finished products are tested for alignment, quality and, where applicable, hydraulic function before despatch to ensure a trouble free fit and long attachment life.

All products are CE marked and a declaration of conformity is available where applicable for all attachments.

WEIGHT RANGE	WIDTH		DESCRIPTION	PART NO.
	mm	in		
1.5 TONNE	150	6	CLAY SPADE	EC-15-06
1.5 TONNE	200	8	CLAY SPADE	EC-15-08
1.5 TONNE	230	9	CLAY SPADE	EC-15-09
1.5 TONNE	250	10	CLAY SPADE	EC-15-10
1.5 TONNE	300	12	CLAY SPADE	EC-15-12
1.5 TONNE	450	18	CLAY SPADE	EC-15-18
3.0 TONNE	230	9	CLAY SPADE	EC-30-09
3.0 TONNE	250	10	CLAY SPADE	EC-30-10
3.0 TONNE	300	12	CLAY SPADE	EC-30-12
3.0 TONNE	450	18	CLAY SPADE	EC-30-18
4.0 TONNE	250	10	CLAY SPADE	EC-40-10
4.0 TONNE	300	12	CLAY SPADE	EC-40-12
4.0 TONNE	450	18	CLAY SPADE	EC-40-18
1.5 TONNE	300	12	GRAVE DIGGING BUCKET	EV-15-12
1.5 TONNE	400	16	GRAVE DIGGING BUCKET	EV-15-16
1.5 TONNE	450	18	GRAVE DIGGING BUCKET	EV-15-18
1.5 TONNE	600	24	GRAVE DIGGING BUCKET	EV-15-24
3.0 TONNE	300	12	GRAVE DIGGING BUCKET	EV-30-12
3.0 TONNE	400	16	GRAVE DIGGING BUCKET	EV-30-16
3.0 TONNE	450	18	GRAVE DIGGING BUCKET	EV-30-18
3.0 TONNE	600	24	GRAVE DIGGING BUCKET	EV-30-24
3.0 TONNE	700	30	GRAVE DIGGING BUCKET	EV-30-30
4.0 TONNE	300	12	GRAVE DIGGING BUCKET	EV-40-12
4.0 TONNE	400	16	GRAVE DIGGING BUCKET	EV-40-16
4.0 TONNE	450	18	GRAVE DIGGING BUCKET	EV-40-18
4.0 TONNE	600	24	GRAVE DIGGING BUCKET	EV-40-24
4.0 TONNE	750	30	GRAVE DIGGING BUCKET	EV-40-30





1.5 TONNE	900	36	TILT DITCH BUCKET	EW-15-36
1.5 TONNE	1000	39	TILT DITCH BUCKET	EW-15-39
3.0 TONNE	1000	39	TILT DITCH BUCKET	EW-30-39
3.0 TONNE	1200	48	TILT DITCH BUCKET	EW-30-48
4.0 TONNE	1200	48	TILT DITCH BUCKET	EW-40-48
4.0 TONNE	1370	54	TILT DITCH BUCKET	EW-40-54
5.5 TONNE	1200	48	TILT DITCH BUCKET	EW-55-48
5.5 TONNE	1500	60	TILT DITCH BUCKET	EW-55-60
7.0 TONNE	1500	60	TILT DITCH BUCKET	EW-70-60
7.0 TONNE	1850	72	TILT DITCH BUCKET	EW-70-72
BACKHOE	1500	60	TILT DITCH BUCKET	EW-BH-60
BACKHOE	1830	72	TILT DITCH BUCKET	EW-BH-72



0.75T-1.5T			RIPPER TOOTH	EH15
3.0T			RIPPER TOOTH	EH30
5.5T			RIPPER TOOTH	EH55
7.0T			RIPPER TOOTH	EH70
13.0 T			RIPPER TOOTH	EH130



1.5T	600	24	LAND RAKE - 5 TINES	EK1524
3.0T	600	24	LAND RAKE - 5 TINES	EK3024
3.0T	900	36	LAND RAKE - 6 TINES	EK3036
5.5T	1200	48	LAND RAKE - 9 TINES	EK5548
5.5T	1500	60	LAND RAKE - 12 TINES	EK5560
7.0T	1500	60	LAND RAKE - 12 TINES	EK7060
13T	1850	72	LAND RAKE	EK13072



1.5 TONNE	600	24	BOSSED RIDDLE BUCKET	EA-15-24
KLAC C	600	24	KLAC RIDDLE BUCKET	KA-C1-24
3.0 TONNE	900	36	BOSSED RIDDLE BUCKET	EA-30-36
KLAC D	900	36	KLAC RIDDLE BUCKET	KA-D3-36
4.0 TONNE	900	36	BOSSED RIDDLE BUCKET	EA-40-36
KLAC D	900	36	KLAC RIDDLE BUCKET	KA-D4-36
5.0 TONNE	900	36	BOSSED RIDDLE BUCKET	EA-50-36
KLAC E	900	36	KLAC RIDDLE BUCKET	KA-E5-36
7.0 TONNE	1050	42	BOSSED RIDDLE BUCKET	EA-70-42
KLAC F	1050	42	KLAC RIDDLE BUCKET	KA-F7-42
BACKHOE	1050	42	BOSSED RIDDLE BUCKET	EA-BH-42



1-2 TONNE			3-4 FINGER GRAPPLE	GF15
2-3 TONNE			3-4 FINGER GRAPPLE	GF30
4-6 TONNE			3-4 FINGER GRAPPLE	GF50
6-8 TONNE			3-4 FINGER GRAPPLE	GF80
13.0 TONNE			3-4 FINGER GRAPPLE	GF130



3.0T	PALLET FORKS AND FRAME (FIXED FORKS)			PFEX30101200
	1200MM FORKS - 1 TONNE SWL			
5.0T	PALLET FORKS AND FRAME (FIXED FORKS)			PFEX50101200
	1200MM FORKS - 1 TONNE SWL			
8.0T	PALLET FORKS AND FRAME (FIXED FORKS)			PFEX80101200
	1200MM FORKS - 1 TONNE SWL			
13.0T	PALLET FORKS AND FRAME (FLOATING FORKS)			PFEXGP131200-F/WHI
	1200MM FORKS - 2 TONNE SWL			
13.T-21T UNIVERSAL	PALLET FORKS AND FRAME 2 SETS OF PINS 65MM & 80MM			PFEX13211200/WHI
	1200MM FORKS 2 TONNE SWL			



Strickland MFG are the largest stockist of buckets and attachments in the UK. They hold in excess of £4 million of finished product ready for immediate shipment. Their ability to ship buckets immediately minimises downtime on site and allows customers to reduce their own stock inventory. Shellplant have been trading with Strickland MFG for a number of years.



Strickland MFG work closely with end users, continually introducing products to meet the needs of the construction industry. The latest product in the range is the S-LOCK Quick Coupler – a fully automatic twin locking coupler. The S-LOCK Quick coupler is the most versatile coupler currently available on the market.

## Safe, Strong, Simple, Smart & Secure.

Why choose the 'S' LOCK COUPLER?

- Extensive attachment versatility
- Brinell 400 Wear resistant steel
- Simple and safe operation

All add up to sound investment, backed by years of experience and first class service.



The Strickland range is designed using the latest 3D CAD technology to produce attachments that last in the most arduous conditions. From Telehandler Buckets to Couplers and everything in between, trained engineers work hand in hand with Strickland customers to constantly increase the range of products available.

Immediate delivery is just part of the Strickland service. On-site fabrication means Strickland can quickly provide bespoke solutions for tough conditions. Conversions, reinforcements, security livery and repairs are undertaken by an in-house team of engineers, welders and designers.



**Thwaites**

The Thwaites name is synonymous with the best-quality dumpers on the market. Advanced design and investment in tooling provide today's customers with the very best products at the cutting edge of technology. This means more than just the strength and reliability you know you can expect from Thwaites; it means an increased focus on customer satisfaction, safety and ergonomics across the range.

Thwaites specialise in dumpers, so you can be confident you are dealing with the experts. At every stage of the manufacturing process each component has passed the most stringent tests before the assembled dumper goes through its final pre-despatch inspection.

Consistently at the forefront of dumper design, Thwaites have answered customers' needs for more than six decades. At every stage of product advancement within the industry, Thwaites have been the innovators.



## ADVANCED ENGINEERING SOLUTIONS

### 6T & 9T Dumpers with enclosed cab



*This new Level 2 ROPS and FOPS cab protects the operator with an engineered, reinforced structure, to reduce injury from machine overturn or falling objects.*



### 20/20 VISION ON SITE

Operators and on site personnel are further protected with the inclusion of a fully integrated camera system. Compliant to ISO 5006, and waterproof to IP67, this system provides the operator with 360° all round visibility.

Commenting on this innovative solution, Thwaites Engineering Manager Bob McElvogue said, "The inclusion of these critical safety features will significantly reduce the risk of site incident, accident or near miss. Having listened carefully to our customers, it was important that due consideration was applied to operator ergonomics. Our highly skilled and experienced engineering design team here at our Warwickshire manufacturing plant, have strategically developed and applied improvements to driver comfort, that will reduce operator fatigue and improve on site productivity".

### SAFE ON SITE

Access and egress to the cab is safe and secure via three points of contact and an

easy release door lock. Once inside the cab the operator will find a secure internal storage area for their personal belongings.

In addition to the standard orange site beacon, there's a green beacon linked to a drive-inhibit seat belt buckle to promote best practice and safety on site.

High powered LED work lights ensure excellent visibility day or night.

### OPERATOR COMFORT

Operators of the new Thwaites cabbed dumper will now be able to work just as effectively all year round thanks to a host of additional features fitted as standard.

The cab is finished with tinted side and rear glass to reduce solar gain for operator comfort and safety. Additionally, clever door stays have been included to allow the doors to be latched ajar to increase airflow into the cab.

A fully controllable cab heater and ventilation system is built in, including dust and pollen filters to remove airborne irritants.

An optional bluetooth equipped stereo is integrated into the headliner and there's a sun visor and interior light to ensure the operator can always see what they need to.

### 20/20 VISION ON SITE

Daily maintenance checks are all achieved efficiently and effectively from ground level via a key-less, lockable panel just above the rear wheel. The fuel gauge and filler is also located here for added convenience.

Access to the engine itself, is via the liftup seat, which is held up by a gas strut to allow for easy maintenance.

Operational optimisation is also enhanced further with an easy to replace modular glazing system. The glass panels simply unscrew and 'pop out', allowing windows to be replaced in minutes and without the need to wait for sealant to cure before the machine can be used again.



# 1 TONNE HI-TIP



<b>Capacities</b>	Max. safe load	1000 kg
	Heaped	500 litres
	Struck	400 litres
	Water	280 litres

## Engine

Yanmar 3TNV76, 15.9 kW/21.4 bhp (nett) @ 2800 rpm, three-cylinder water-cooled diesel. Max torque 66.4 Nm (49 lb f ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

## Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

<b>Speeds</b>	Forward/reverse: 0–12 km/h
---------------	----------------------------

<b>Tyres</b>	<b>Standard</b>	<b>Optional</b>
	10.0/75 x 15.3	7.00 x12
	8 ply	6 Ply
	Track grip tread	Track grip tread

## Brakes

Automatic failsafe braking system incorporated into rear drive motors.

## Chassis

Front and rear chassis constructed from folded steel plate, with centre-point articulation and oscillation for optimum stability and traction.

## Drive System

Hydrostatic with variable displacement pump feeding four wheel motors, incorporating "Twin-Lock" system to maximise traction.

## Skip

Hydraulically operated, 3 mm base, 4 mm sides steel plate. Mouth reinforced with box sections giving greater strength to minimise damage, no material traps. Raise and tip control operated by twin control levers.

## Seating & Controls

Column-mounted forward/reverse lever with foot pedal speed control. Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn.

## Service Access

Lockable three-sided cover provides easy access from ground level to engine service points.

## Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

## Steering & Hydraulics

Hydraulic power steering. Return line filtration for all services and large capacity suction strainer in the tank to give full circuit protection. Hydraulic test point fitted as standard.

<b>Tank Capacities</b>	Fuel	21 litres
	Hydraulic	20 litres

<b>Shipping Cube</b>	6.3 m <sup>3</sup> (with folded ROPS)
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<b>Unladen Weight</b>	1295 kg
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<b>Clearance Diameter</b>	5.45 m
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## ROPS/Beacon

A folding ROPS bar and beacon are fitted as standard.

## Optional Extras

Full road lighting equipment. Reverse alarm. UK road equipment. Towing bracket. Grassland/sand tyres and narrow tyres.

# 1 TONNE POWERSWIVEL



<b>Capacities</b>	Max. safe load	1000 kg
	Heaped	585 litres
	Struck	430 litres
	Water	355 litres

**Engine**  
Yanmar 3TNV76, 15.9 kW/21.4 bhp (nett) @ 2800 rpm, three-cylinder water-cooled diesel. Max torque 66.4 Nm (49 lb f ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

**Noise Levels**  
Operator's ear 84 LpA, airborne sound power level 102 LwA (to 2000/14/EC)

**Speeds** Forward/reverse: 0-12 km/h

**Tyres** 10.0/75 x 15.3  
8 ply  
Track-grip tread

**Brakes**  
Automatic failsafe braking system incorporated into rear drive motors.

**Chassis**  
Front and rear chassis constructed from folded steel plate, with centre-point articulation and oscillation for optimum stability and traction.

**Drive System**  
Hydrostatic with variable displacement pump feeding four wheel motors, incorporating "Twin-Lock" system to maximise traction.

**Skip**  
Hydraulically operated, 4 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on ball-bearing turntable with powered rotation through 180° by means of twin slewing cylinders, operated by a single dual-axis control lever.

**Seating & Controls**  
Column-mounted forward/reverse lever with foot pedal speed control. Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn.

**Service Access**  
Lockable three-sided cover provides easy access from ground level to engine service points.

**Electrics**  
Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

**Steering & Hydraulics**  
Hydraulic power steering. Return line filtration for all services and large capacity suction strainer in the tank to give full circuit protection. Hydraulic test point fitted as standard.

<b>Tank capacities</b>	Fuel	21 litres
	Hydraulic	20 litres

**Shipping Cube** 6.8 m<sup>3</sup> (with folded ROPS)

**Unladen Weight** 1300 kg

**Clearance Diameter** 5.55 m

**ROPS/Beacon**  
A folding ROPS bar and beacon are fitted as standard.

**Optional Extras**  
Full road lighting equipment. Reverse alarm. UK road equipment. Towing bracket. Grassland/sand tyres.

## 2 TONNE FRONT TIP

Capacities	Max. safe load	2000 kg
	Heaped	1240 litres
	Struck	970 litres
	Water	850 litres

### Engine

Yanmar 3TNV82A, 21.1 kW/29 bhp (nett) at 2800 rpm, 3-cylinder water-cooled direct-injection diesel. Max torque 87 Nm [64 lbf ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy duty clutch. Transfer reduction box.

Speeds	1	4.2 km/h ( 2.6 mph)
	2	9.6 km/h ( 6.0 mph)
	3	17.8 km/h (11.1 mph)
	Reverse	4.6 km/h ( 2.9 mph)

Tyres	255/75 x 15.3
	8 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, constructed from 5 mm steel, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps.

### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.



### Service Access

Lockable 3 sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

Tank capacities	Fuel	24.5 litres
	Hydraulic	25 litres

Shipping Cube	10.6 m <sup>3</sup> (with folded ROPS)
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Unladen Weight	1970 kg
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Clearance Diameter	7.7 m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.

## 2 TONNE POWERSWIVEL

Capacities	Max. safe load	2000 kg
	Heaped	1205 litres
	Struck	875 litres
	Water	770 litres

### Engine

Yanmar 3TNV82A, 21.1 kW/29 bhp (nett) at 2800 rpm, 3 cylinder water-cooled direct-injection diesel. Max torque 87 Nm (64 lbf ft). Electric starting, hour meter, battery isolator switch and heavy duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy duty clutch. Transfer reduction box.

Speeds	1	4.2 km/h ( 2.6 mph)
	2	9.6 km/h ( 6.0 mph)
	3	17.8 km/h (11.1 mph)
	Reverse	4.6 km/h ( 2.9 mph)

Tyres	255/75 x 15.3
	8 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep-section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders, operated by a single dual axis control lever. Automatic safety lock holds skip in central position when travelling.



### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.

### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

Tank capacities	Fuel	24.5 litres
	Hydraulic	25 litres

Shipping Cube	11 m <sup>3</sup> (with folded ROPS)
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Unladen Weight	2020 kg
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Clearance Diameter	7.5 m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.



## 2 TONNE HI-SWIVEL

### Capacities

Max. safe load	2000 kg
Heaped	1205 litres
Struck	875 litres
Water	770 litres

### Engine

Yanmar 3TNV82A, 21.1 kW/29 bhp (nett) at 2800 rpm, 3 cylinder water cooled direct injection diesel. Max torque 87 Nm (64 lbf ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy-duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy-duty clutch. Transfer reduction box.

Speeds	1	4.2 km/h ( 2.6 mph)
	2	9.6 km/h ( 6.0 mph)
	3	17.8 km/h (11.1 mph)
	Reverse	4.6 km/h ( 2.9 mph)

Tyres	255/75 x 15.3
	8 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders. Variable tipping height by means of a scissor lift. Two-lever control: one with dual axis to tip and turn the skip and a single-axis lever to adjust its height. Automatic safety lock holds skip in central position when traveling.



### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.

### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

Tank capacities	Fuel	24.5 litres
	Hydraulic	25 litres

Shipping Cube	11 m <sup>3</sup> (with folded ROPS)
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Unladen Weight	2200 kg
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Clearance Diameter	7.5 m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.

## 3 TONNE FRONT TIP

### Capacities

Max. safe load	3000 kg
Heaped	1680 litres
Struck	1350 litres
Water	1060 litres

### Engine

Yanmar 3TNV88, 24.8 kW/33.2 bhp (nett) at 2800 rpm, three-cylinder water-cooled direct-injection diesel. Max. torque 111 Nm (82 lbf ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy duty clutch. Transfer reduction box.

Speeds	1	4.7 km/h ( 2.9 mph)
	2	10.8 km/h ( 6.7 mph)
	3	19.9 km/h (12.3 mph)
	Reverse	5.2 km/h ( 3.2 mph)

Tyres	295/80 x 15.3
	10 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, constructed from 5 mm steel, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps.

### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.



### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

Tank capacities	Fuel	24.5 litres
	Hydraulic	25 litres

Shipping Cube	12.5 m <sup>3</sup> (with folded ROPS)
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Unladen Weight	2010 kg
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Clearance Diameter	9.2 m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.

## 3 TONNE POWERSWIVEL



<b>Capacities</b>	Max. safe load	3000 kg
	Heaped	1640 litres
	Struck	1210 litres
	Water	990 litres

### Engine

Yanmar 3TNV88, 24.8 kW/33.2 bhp (nett) at 2800 rpm, 3 cylinder water-cooled direct-injection diesel. Max. torque 111 Nm (82 lbf ft). Electric starting, hour meter, battery isolator switch and heavy duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy duty clutch. Transfer reduction box.

<b>Speeds</b>	1	4.7 km/h ( 2.9 mph)
	2	10.8 km/h ( 6.7 mph)
	3	19.9 km/h (12.3 mph)
	Reverse	5.2 km/h ( 3.2 mph)

<b>Tyres</b>	295/80 x 15.3
	10 ply
	Track grip tread

### Brakes and Axles

Totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep-section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders, operated by a single dual axis control lever. Automatic safety lock holds skip in central position when travelling.

### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.

### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

<b>Tank capacities</b>	Fuel	24.5 litres
	Hydraulic	25 litres

<b>Shipping Cube</b>	13 m <sup>3</sup> (with folded ROPS)
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<b>Unladen Weight</b>	2160 kg
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<b>Clearance Diameter</b>	8.0 m
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<b>Towing Bracket</b>	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.

## 3 TONNE HI-SWIVEL

### Capacities

Max. safe load	2000 kg
Heaped	1205 litres
Struck	875 litres
Water	770 litres

### Engine

Yanmar 3TNV82A, 21.1 kW/29 bhp (nett) at 2800 rpm, 3 cylinder water cooled direct injection diesel. Max torque 87 Nm (64 lbf ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Heavy-duty gearbox, three forward, one reverse, constant mesh change on the move with nickel chrome case hardened gears. Drive through 240 mm dia spring-damped heavy-duty clutch. Transfer reduction box.

Speeds	1	4.2 km/h ( 2.6 mph)
	2	9.6 km/h ( 6.0 mph)
	3	17.8 km/h (11.1 mph)
	Reverse	4.6 km/h ( 2.9 mph)

Tyres	255/75 x 15.3
	8 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders. Variable tipping height by means of a scissor lift. Two-lever control: one with dual axis to tip and turn the skip and a single-axis lever to adjust its height. Automatic safety lock holds skip in central position when traveling.



### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Super-bright warning lights for all critical functions. Electric horn. Large pedal pads with handbrake and hydraulic controls ready to hand.

### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering & Hydraulics

Hydraulic priority power steering. Filter mounted on the top of the tank accessible from ground level. Combined suction and return filtration for all services. Hydraulic test points fitted as standard.

Tank capacities	Fuel	24.5 litres
	Hydraulic	25 litres

Shipping Cube	11 m <sup>3</sup> (with folded ROPS)
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Unladen Weight	2200 kg
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Clearance Diameter	7.5 m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement a fully approved folding ROPS frame is fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.



## 3 TONNE HI-SWIVEL HYDROSTATIC



Capacities	Max safe load	3000 kg
	Heaped	1760 litres
	Struck	1300 litres
	Water	1050 litres

### Engine

Yanmar 4TNV88, 33.4 kW/45 bhp (nett) at 2800 rpm, four-cylinder water-cooled direct-injection diesel. Max torque 141 Nm (104 lbf ft). Electric starting, hour meter, battery isolator switch and heavy-duty cyclonic air cleaner positioned within the lockable engine compartment.

### Noise Levels

Operator's ear 84 LpA, airborne sound power level 101 LwA (to 2000/14/EC).

### Transmission

Hydrostatic with high/low speed range and forward/reverse direction controlled by one column-mounted lever. Inching facility for precise manoeuvres in restricted areas activated by first push on brake pedal.

Speeds	Forward and Reverse	
	Low	0-9.0km/h
	High	0-24.0km/h

Tyres	295/80 x 15.3
	10 ply
	Track grip tread

### Brakes and Axles

Long-life totally enclosed multiplate oil-immersed discs mounted on rear axle effective on all four wheels. Automatic adjustment for wear. Hand-operated parking brake. Heavy-duty axles with epicyclic reduction and fully floating halfshafts. Reduction gearbox integral with rear axle differential housing.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three-point Kinglink giving centre articulation and oscillation for better stability and traction, coupled with tight turning circle for outstanding manoeuvrability. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 5 mm steel plate all round, fully welded, mouth and sides of skip reinforced with box sections to minimise skip damage. Variable tipping height by means of a scissor lift. Two-lever control: one to raise and lower the scissor mechanism; the other, a dual-axis lever for rotating the skip through 180° and for discharging the load.

### Seating & Controls

Adjustable suspension seat, accessible from both sides. Audible warning device at key start 'on' position. Electric horn. Super-bright warning lights for all critical functions. Large pedal pads, with handbrake and hydraulic controls ready to hand.

### Service Access

Lockable three-sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. Additional service access door incorporates the battery. Moulded diesel and hydraulic tanks positioned low in the chassis side members, permitting access to the filler caps from ground level.

### Electrics

Wiring harness contained within conduits and all electrical components water resistant to IP65/67 standards.

### Steering and Hydraulics

Hydraulic power steering. Return line filtration for all services and large capacity suction strainer in the tank to give full circuit protection. Hydraulic test point fitted as standard.

Tank Capacities	Fuel	45 litres
	Hydraulic	45 litres

Shipping Cube	14.2 m <sup>3</sup> (without ROPS)
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Unladen Weight	2920kg
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Clearance Diameter	under 8m
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Towing Bracket	Standard
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### ROPS

For the UK and other markets where it is a legal requirement, a fully approved ROPS frame fitted as standard.

### Optional Extras

Folding ROPS frame. Beacon. Full road lighting equipment. UK road equipment. Anti-theft device.

## 6 TONNE FRONT TIP

Capacities	Max safe load	6000kg
	Heaped	3400 litres
	Struck	2525 litres
	Water	1925 litres

### Engine

Deutz TCD 3.6 L4 55.4kW/74hp at 2200rpm, water-cooled, four cylinder, charged air cooled turbo, electronic controlled fuel injected diesel engine. Powercore air intake filter and stainless steel exhaust system, including after treatment Diesel Oxidisation Catalyst providing conformity to EU Stage IIIB emission regulations. Peak torque 390Nm at 1300 rpm.

### Noise Levels

Operator's ear 84 LpA, airborne sound level 102 LwA

### Transmission

Torque converter four speed forward and reverse Powershuttle transmission with column mounted directional control lever and heavy duty gear driven transfer box.

Speeds	Forward and Reverse	
	1	5.0km/h (3.1 mph)
	2	8.0km/h (5.0 mph)
	3	15.1km/h (9.3 mph)
4	27.7 km/h (17.2 mph)	

Tyres	405/70 x 20
	14 ply
	Track grip tread

### Brakes and Axles

Twin circuit totally enclosed multiplate oil immersed discs, mounted on both axles with automatic adjustment for wear. Hand operated parking brake. Heavy duty axles with epicyclic reduction and fully floating half shafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three point Kinglink giving articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps.

### Seating & Controls

Adjustable suspension seat, fitted with high visibility rigid seat belt with adjustable web, accessible from both sides. Audible warning device for handbrake in "on" position, electric horn, large pedal pads, ignition key, park brake and skip controls ready to hand. Super bright LED warning lights visible from the drivers position for all critical functions.



### Service Access

Lockable three sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. An additional service access door incorporates the battery. Moulded plastic diesel tank and steel hydraulic tank are positioned low in chassis side members, permitting access to the filler caps from ground level.

### Electrics

Engine control unit with shutdown monitoring. Electronic equipment function includes diagnostic port and tri-function hour meter/ fault code reader/ battery volt meter. Fuse & relay panel housed in easy to access position, with all wiring contained in solid sealed conduit and all electrical components water resistant to IP67 rating.

### Steering and Hydraulics

Single gear pump providing hydraulic functions includes priority power steering. Filter mounted on top of the tank accessible from ground level. Hydraulic test point fitted as standard.

Tank Capacities	Fuel	72 litres
	Hydraulic	50 litres

Shipping Cube	24.9 m <sup>3</sup> (with ROPS)
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Unladen Weight	4200kg
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Clearance Diameter	12.6m
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Standard Equipment	Towing bracket
	Folding ROPS frame
	Rotary beacon
	Low fuel level warning
	Water in fuel warning
	High visibility rigid seat belt
	Reverse alarm
	Low Brake Fluid warning
Handbrake test switch	

# 6 TONNE POWERSWIVEL



<b>Capacities</b>	Max safe load	6000kg
	Heaped	3150 litres
	Struck	2550 litres
	Water	1650 litres

### Engine

Deutz TCD 3.6 L4 55.4kW/74hp at 2200rpm, water-cooled, four cylinder, charged air cooled turbo, electronic controlled fuel injected diesel engine. Powercore air intake filter and stainless steel exhaust system, including after treatment Diesel Oxidisation Catalyst providing conformity to EU Stage IIIB emission regulations. Peak torque 390Nm at 1300 rpm.

### Noise Levels

Operator's ear 84 LpA, airborne sound level 102 LwA

### Transmission

Torque converter four speed forward and reverse Powershuttle transmission with column mounted directional control lever and heavy duty gear driven transfer box.

<b>Speeds</b>	Forward and Reverse	
	1	5.0km/h (3.1 mph)
	2	8.0km/h (5.0 mph)
	3	15.1km/h (9.3 mph)
	4	27.7 km/h (17.2 mph)

<b>Tyres</b>	405/70 x 20
	14 ply
	Track grip tread

### Brakes and Axles

Twin circuit totally enclosed multiplate oil immersed discs, mounted on both axles with automatic adjustment for wear. Hand operated parking brake. Heavy duty axles with epicyclic reduction and fully floating half shafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three point Kinglink giving articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 8 mm steel base plate, fully welded, reinforced with box section giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on a ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders, operated by a single dual-axis control lever. Automatic safety lock holds skip in central position when travelling.

### Seating & Controls

Adjustable suspension seat, fitted with high visibility rigid seat belt with adjustable web, accessible from both sides. Audible warning device for handbrake in "on" position, electric horn, large pedal pads, ignition key, park brake and skip controls ready to hand. Super bright LED warning lights visible from the drivers position for all critical functions.

### Service Access

Lockable three sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. An additional service access door incorporates the battery. Moulded plastic diesel tank and steel hydraulic tank are positioned low in chassis side members, permitting access to the filler caps from ground level.

### Electrics

Engine control unit with shutdown monitoring. Electronic equipment function includes diagnostic port and tri-function hour meter/ fault code reader/ battery volt meter. Fuse & relay panel housed in easy to access position, with all wiring contained in solid sealed conduit and all electrical components water resistant to IP67 rating.

### Steering and Hydraulics

Single gear pump providing hydraulic functions includes priority power steering. Filter mounted on top of the tank accessible from ground level. Hydraulic test point fitted as standard.

<b>Tank Capacities</b>	Fuel	72 litres
	Hydraulic	50 litres

<b>Shipping Cube</b>	25.8 m <sup>3</sup> (with ROPS)
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<b>Unladen Weight</b>	4420kg
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<b>Clearance Diameter</b>	12m
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<b>Standard Equipment</b>	Towing bracket
	Folding ROPS frame
	Rotary beacon
	Low fuel level warning
	Water in fuel warning
	High visibility rigid seat belt
	Reverse alarm
	Low brake fluid warning
Handbrake test switch	

## 9 TONNE FRONT TIP



Capacities	Max safe load	9000kg
	Heaped	4600 litres
	Struck	3830 litres
	Water	2155 litres

### Engine

Deutz TCD 3.6 L4 55.4kW/74hp at 2200rpm, water-cooled, four cylinder, charged air cooled turbo, electronic controlled fuel injected diesel engine. Powercore air intake filter and stainless steel exhaust system, including after treatment Diesel Oxidisation Catalyst providing conformity to EU Stage IIIB emission regulations. Peak torque 390Nm at 1300 rpm.

### Noise Levels

Operator's ear 84 LpA, airborne sound level 102 LwA

### Transmission

Torque converter four speed forward and reverse Powershuttle transmission with column mounted directional control lever and heavy duty gear driven transfer box.

Speeds	Forward and Reverse	
	1	4.4km/h (2.7 mph)
	2	7.1km/h (4.4 mph)
	3	13.3km/h (8.3 mph)
	4	24.3km/h (15 mph)

Tyres	500/60 x 22.5
	12 ply
	Track grip tread

### Brakes and Axles

Twin circuit totally enclosed multiplate oil immersed discs, mounted on both axles with automatic adjustment for wear. Hand operated parking brake. Heavy duty axles with epicyclic reduction and fully floating half shafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three point Kinglink giving articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate, fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps. Optional abrasion resistant steel plate (AR400) for skip base, rear and front panel sections.

### Service Access

Lockable three sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. An additional service access door incorporates the battery. Moulded plastic diesel tank and steel hydraulic tank are positioned low in chassis side members, permitting access to the filler caps from ground level.

### Electrics

Engine control unit with shutdown monitoring. Electronic equipment function includes diagnostic port and tri-function hour meter/ fault code reader/ battery volt meter. Fuse & relay panel housed in easy to access position, with all wiring contained in solid sealed conduit and all electrical components water resistant to IP67 rating.

### Steering and Hydraulics

Single gear pump providing hydraulic functions includes priority power steering. Filter mounted on top of the tank accessible from ground level. Hydraulic test point fitted as standard.

Tank Capacities	Fuel	72 litres
	Hydraulic	50 litres

Shipping Cube	31.8 m <sup>3</sup> (with ROPS)
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Unladen Weight	4740kg
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Clearance Diameter	13.5m
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Standard Equipment	Towing bracket
	Folding ROPS frame
	Rotary beacon
	Low fuel level warning
	Water in fuel warning
	High visibility rigid seat belt
	Reverse alarm
	Low Brake Fluid warning
Handbrake test switch	



# 9 TONNE POWERSWIVEL



<b>Capacities</b>	Max safe load	9000kg
	Heaped	4250 litres
	Struck	3400 litres
	Water	2050 litres

## Engine

Deutz TCD 3.6 L4 55.4kW/74hp at 2200rpm, water-cooled, four cylinder, charged air cooled turbo, electronic controlled fuel injected diesel engine. Powercore air intake filter and stainless steel exhaust system, including after treatment Diesel Oxidisation Catalyst providing conformity to EU Stage IIIB emission regulations. Peak torque 390Nm at 1300 rpm.

## Noise Levels

Operator's ear 84 LpA, airborne sound level 101 LwA

## Transmission

Torque converter four speed forward and reverse Powershuttle transmission with column mounted directional control lever and heavy duty gear driven transfer box.

<b>Speeds</b>	Forward and Reverse		
	1	4.4km/h	(2.7 mph)
	2	7.1km/h	(4.4 mph)
	3	13.3km/h	(8.3 mph)
	4	24.3km/h	(15 mph)

<b>Tyres</b>	500/60 x 22.5
	Track-grip tread
	Load/Speed Index 149 A8

## Brakes and Axles

Twin circuit totally enclosed multiplate oil immersed discs, mounted on both axles with automatic adjustment for wear. Hand operated parking brake. Heavy duty axles with epicyclic reduction and fully floating half shafts.

## Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three point Kinglink giving articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

## Skip

Hydraulically operated, 8 mm steel base plate, fully welded, reinforced with box section giving greater strength to minimise skip damage. No material traps. Powerswivel mounted on a ball bearing turntable with powered rotation through 180° by means of twin slewing cylinders, operated by a single dual-axis control lever. Automatic safety lock holds skip in central position when travelling.

## Seating & Controls

Adjustable suspension seat, fitted with high visibility rigid seat belt with adjustable web, accessible from both sides. Audible warning device for handbrake in "on" position, electric horn, large pedal pads, ignition key, park brake and skip controls ready to hand. Super bright LED warning lights visible from the drivers position for all critical functions.

## Service Access

Lockable three sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. An additional service access door incorporates the battery. Moulded plastic diesel tank and steel hydraulic tank are positioned low in chassis side members, permitting access to the filler caps from ground level.

## Electrics

Engine control unit with shutdown monitoring. Electronic equipment function includes diagnostic port and tri-function hour meter/ fault code reader/ battery volt meter. Fuse & relay panel housed in easy to access position, with all wiring contained in solid sealed conduit and all electrical components water resistant to IP67 rating.

## Steering and Hydraulics

Single gear pump providing hydraulic functions includes priority power steering. Filter mounted on top of the tank accessible from ground level. Hydraulic test point fitted as standard.

<b>Tank Capacities</b>	Fuel	72 litres
	Hydraulic	50 litres

<b>Shipping Cube</b>	34.8 m <sup>3</sup> (with ROPS)
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<b>Unladen Weight</b>	5400kg
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<b>Clearance Diameter</b>	13.4m
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<b>Standard Equipment</b>	Towing bracket
	Folding ROPS frame
	Rotary beacon
	Low fuel level warning
	Water in fuel warning
	High visibility rigid seat belt
	Reverse alarm
	Low brake fluid warning
	Handbrake test switch

## 10 TONNE FRONT TIP

Capacities	Max safe load	10000kg
	Heaped	4700 litres
	Struck	4110 litres
	Water	2350 litres

### Engine

Deutz TCD 3.6 L4 55.4kW/74hp at 2200rpm, water-cooled, four cylinder, charged air cooled turbo, electronic controlled fuel injected diesel engine. Powercore air intake filter and stainless steel exhaust system, including after treatment Diesel Oxidisation Catalyst providing conformity to EU Stage IIIB emission regulations. Peak torque 390Nm at 1300 rpm.

### Noise Levels

Operator's ear 84 LpA, airborne sound level 101 LwA

### Transmission

Torque converter four speed forward and reverse Powershuttle transmission with column mounted directional control lever and heavy duty gear driven transfer box.

Speeds	Forward and Reverse		
	1	4.4km/h	(2.7 mph)
	2	7.1km/h	(4.4 mph)
	3	13.3km/h	(8.3 mph)
	4	24.3km/h	(15 mph)

Tyres	500/60 x 22.5
	Track grip tread
	Load/Speed Index 149 A8

### Brakes and Axles

Twin circuit totally enclosed multiplate oil immersed discs, mounted on both axles with automatic adjustment for wear. Hand operated parking brake. Heavy duty axles with epicyclic reduction and fully floating half shafts.

### Kinglink Chassis

Front and rear chassis constructed from deep section folded steel plate, with three point Kinglink giving articulation and oscillation for better stability, traction and extra safety on site. Remote greasing point provided for lubrication of top Kinglink articulation pin.

### Skip

Hydraulically operated, 6 mm steel base plate. Domex 460 impact-resistant sides and top box-sections. Fully welded, mouth and sides of skip reinforced with box sections giving greater strength to minimise skip damage. No material traps.

### Seating & Controls

Adjustable suspension seat, fitted with high visibility rigid seat belt with adjustable web, accessible from both sides. Audible warning device for handbrake in "on" position, electric horn, large pedal pads, ignition key, park brake and skip controls ready to hand. Super bright LED warning lights visible from the drivers position for all critical functions.



### Service Access

Lockable three sided cover opens to provide easy access from ground level to engine service points, all located on the same side. Rear chassis panel can be hinged back on retainers. An additional service access door incorporates the battery. Moulded plastic diesel tank and steel hydraulic tank are positioned low in chassis side members, permitting access to the filler caps from ground level.

### Electrics

Engine control unit with shutdown monitoring. Electronic equipment function includes diagnostic port and tri-function hour meter/ fault code reader/ battery volt meter. Fuse & relay panel housed in easy to access position, with all wiring contained in solid sealed conduit and all electrical components water resistant to IP67 rating.

### Steering and Hydraulics

Single gear pump providing hydraulic functions includes priority power steering. Filter mounted on top of the tank accessible from ground level. Hydraulic test point fitted as standard.

Tank Capacities	Fuel	72 litres
	Hydraulic	50 litres

Shipping Cube	33.1 m <sup>3</sup> (with ROPS)
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Unladen Weight	4830kg
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Clearance Diameter	14.0m
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Standard Equipment	Towing bracket
	Folding ROPS frame
	Rotary beacon
	Low fuel level warning
	Water in fuel warning
	High visibility rigid seat belt
	Reverse alarm
	Low Brake Fluid warning
Handbrake test switch	

## MICRO DUMPER 300



Capacities	Max. safe load	300 kg
	Heaped	145 litres
	Struck	115 litres
	Water	85 litres

**Engine**  
Honda GXV160, 3.2 kW/4.3 bhp (nett) @ 3100 rpm, single-cylinder air-cooled petrol. Max torque 9.6 Nm (7.1 lb f ft). 4 stroke OHV commercial engine, 163cc displacement. EPA/CARB compliant.

**Noise Levels**  
Airborne sound power level 101 LwA (to 2000/14/EC)

Speeds	1	1.2 km/h (0.8 mph)
	2	2.4 km/h (1.5 mph)
	3	3.7 km/h (2.3 mph)
	4	7.4 km/h (4.6 mph)
	Reverse	2.4 km/h (1.5 mph)

Tyres	4.00-10
	4 ply
	Track-grip tread

**Brakes**  
Automatic failsafe park brake incorporated into transaxle.

**Chassis**  
Chassis constructed from 3mm folded steel plate.

**Drive System**  
Peerless transaxle, four forward & one reverse gear. V belt / pulley driven.

**Skip**  
2 mm steel, fully welded inside, mouth of skip reinforced giving greater strength to minimise skip damage. No material traps.

**Controls**  
Hand operated controls consisting of a forward/reverse lever, park brake release, clutch lever, skip tip lever and thumb operated throttle lever enabling full throttle control on the move without having to let go of the handles.

Fuel Tank capacity	2.5 litres
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Shipping Cube	1.04 m <sup>3</sup>
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Unladen Weight	160 kg
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## QUICK REFERENCE GUIDE



Front Tip	Tonnes	Ltrs m	Ltrs	Kw	bhp	mm	M	M	Kg	Km/h
10 Tonne	10	4700	2350	55.4	74	436	4.69	2.49	4830	0-24
9 Tonne	9	4600	2155	55.4	74	436	4.67	2.49	4740/4800	0-24
6 Tonne	6	3400	1925	55.4	74	340	4.44	2.35	4200	0-28
4 Tonne	4	2160	1305	33.3	44.7	365	3.85	1.98	2410	0-20
3 Tonne	3	1680	1060	24.8	33.3	305	3.77	1.65	2010	0-20
2 Tonne	2	1240	850	21.1	28.3	262	3.60	1.48	1900	0-18
<b>Powerswivel</b>										
9 Tonne	9	4250	2050	55.4	74	1134	5.05	2.43	5400	0-24
6 Tonne	6	3150	1650	55.4	74	1100	4.81	2.28	4340/4400	0-28
5 Tonne	5	3000	1500	55.4	74	1050	4.81	2.14	4180/4245	0-25
4.5 Tonne (Hydrostatic)	4.5	2340	1390	34.8	46.7	1068	4.11	1.84	2835	0-24
4 Tonne	4	2340	1390	33.3	44.7	1068	4.11	1.84	2630	0-20
3.5 Tonne (Hydrostatic)	3.5	1870	1100	33.3	44.7	1110 4	.01	1.75	2605	0-24
3 Tonne	3	1640	990	24.8	33.3	735	3.94	1.65	2160	0-20
3 Tonne (Hydrostatic)	3	1640	990	24.8	33.3	735	3.93	1.65	2190	0-22
2.3 Tonne (Hydrostatic)	2.3	1205	770	24.8	33.3	712	3.74	1.48	2090	0-22
2 Tonne	2	1205	770	21.1	28.3	712	3.74	1.48	2020	0-18
1.5 Tonne (Hydrostatic)	1.5	800	520	15.9	21.3	651	3.10	1.30	1355	0-12
1 Tonne (Hydrostatic)	1	585	355	15.9	21.3	642	3.06	1.20	1300	0-12
<b>Hi-Swivel</b>										
3 Tonne(Hydrostatic)	3	1760	1050	33.3	44.7	1850	3.97	1.77	2920	0-24
3 Tonne	3	1760	1050	33.3	44.7	1850	3.97	1.77	2790	0-17
2 Tonne (Hydrostatic)	2	1205	770	24.8	33.3	1710	3.74	1.47	2270	0-22
2 Tonne	2	1205	770	21.1	28.3	1710	3.74	1.47	2200	0-18
<b>Hi-Tip</b>										
1 Tonne (Hydrostatic)	1	500	280	15.9	21.3	1573	3.03	1.12/0.98	1295	0-12
<b>Micro</b>										
0.3 Tonne	0.3	145	85	3.2	4.3	117	1.61	700	160	0-7.4





BOMAG is the world market leader in the field of Compaction Technology and manufacturer of machines for the compaction of soils asphalt and refuse, stabilizers/recyclers, land milling machines as well as finishers.

Compaction equipment from BOMAG is used in areas as diverse as horticulture and landscaping to the entire range of road construction and heavy dam construction. Furthermore, BOMAG provides special solutions for use on landfill sites of all sizes, as well as for recycling damaged asphalt pavement, and for soil stabilization.

BOMAG is the world leader in measuring, documentation and control of compaction work during the compaction process, as well as after. BOMAG machines fulfill a wide variety of different requirements by way of the many available equipment variations and the worldwide employment of compaction experts.

## TAMPERS



Earthwork and asphalt construction.  
Pipeline, trench and sewer line construction, backfills,  
foundations and repair work on asphalt.

### Features:

- Engine Protection System
- Vibration insulated steering bow
- Self-cleaning air filter housing
- Protective covering
- Single point lifting device
- Recoil starter
- Carrying handles
- Infinitely variable frequency
- Combination of engine stop/fuel switch



Tampers		BT60	BT65	BT80D
Operating weight	(kg)	58	68	81
Working width (tamper plate)	(mm)	230	280	330
Working speed	(m/min)	20	20	16
Area coverage	(m <sup>2</sup> /h)	276	336	
Engine		Honda GXR120	Honda GXR120	Yanmar L48
Performance	(kW)	2.8	2.8	3.1
Fuel consumption	(l/hour)	0.9	0.9	0.7
Fuel capacity	(l)	3.0	3.0	3.0
Frequency	(Hz)	10 - 11.8	10 - 11.8	8 - 11.8
Impact force	(kN)	15.0	17.0	17.5
Part number				

## FORWARD PLATE COMPACTORS



Earthwork, asphalt and paving applications.  
Repair work on roads and agricultural roads, pipeline and trench construction, landscape gardening.

### Features:

- Vibration insulated steering bow, foldable
- Detachable steering handle
- Highly wear resistant base plate
- Automatic shutdown at low oil level
- Recoil starter
- Single point lifting device
- Fully protected V-belt



Forward plate compactors		BVP 10/30	BVP 10/36	BVP 18/45	BP 10/35
Operating weight	(kg)	47	83	91	65
Plate width	(mm)	300	360	450	350
Plate length	(mm)	509	558	558	532
Max. gradeability	%	30	30	30	30
Engine		Honda GX100	Honda GX120	Honda GX160	Honda GX120
Performance	(kW)	2.1	2.6	3.6	2.6
Fuel consumption	(l/hour)	0.6	0.9	1.1	0.9
Fuel capacity	(l)	0.9	2.0	3.1	2.0
Frequency	(Hz)	100	90	90	90
Cenrifugal force	(kN)	10	10	18	10
Part number					

## FORWARD PLATE COMPACTORS



Earthwork, asphalt and paving applications.  
Repair work on roads and agricultural roads, pipeline and trench construction, landscape gardening.

### Features:

- Highly wear resistant special base plate
- Sprinkler system
- Vibration insulated steering bow, foldable
- Detachable steering handle
- Automatic shutdown at low oil level
- Recoil starter
- Reinforced centrifugal clutch
- Single point lifting device
- Fully protected V-belt



Forward plate compactors		BP 12/50	BP 20/50	BP 20/50D	BP 25/50	BP 25/50D
Operating weight	(kg)	82	95	109	108	122
Plate width	(mm)	500	500	500	500	500
Plate length	(mm)	545	542	542	542	542
Max. gradeability	%	30	30	30	30	30
Engine		Honda GX120	Honda GX160	Hatz 1B20 *	Honda GX160	Hatz 1B20 *
Performance	(kW)	2.6	3.6	3.1	3.6	3.1
Fuel consumption	(l/hour)	0.9	1.1	0.7	1.1	0.7
Fuel capacity	(l)	2.0	3.1	3.0	3.1	3.0
Frequency	(Hz)	100	90	90	92	92
Centrifugal force	(kN)	12	20	20	25	25
Part number						

\* Diesel



## FORWARD AND REVERSIBLE PLATE COMPACTORS



Earthwork, asphalt and paving applications.  
Construction of roads, forestry roads and railtracks,  
backfills, trench and sewer line construction, landscape  
gardening, interlocking paving stones, foundations.

### Features:

- Single lever control
- Low vibration steering rod
- Height adjustable steering rod
- Steering rod lockable in transport and working position
- Vibration and throttle regulation on the steering rod
- Highly wear resistant base plate
- Fully protected V-belt
- Recoil starter
- Back-up drive protection
- Automatic shutdown at low oil level



Reversible plate compactors		BPR 25/40	BPR 25/40D	BPR 25/50	BPR 25/50D
Operating weight	(kg)	135	150	140	155
Plate width	(mm)	400	400	500	500
Plate length	(mm)	650	650	650	650
Max. gradeability	%	30	30	30	30
Engine		Honda GX160	Hatz 1B20 *	Honda GX160	Hatz 1B20 *
Performance	(kW)	3.6	3.1	3.6	3.1
Fuel consumption	(l/hour)	1.1	0.7	1.1	0.7
Fuel capacity	(l)	3.0	3.0	3.0	3.0
Frequency	(Hz)	85	85	85	85
Cenrifugal force	(kN)	25	25	25	25
Part number					

\* Diesel

## FORWARD AND REVERSIBLE PLATE COMPACTORS



Earthwork, asphalt and paving applications.  
Construction of roads, forestry roads and railtracks,  
backfills, trench and sewer line construction, landscape  
gardening, interlocking paving stones, foundations.

### Features:

- Single lever control
- Low vibration steering rod
- Height adjustable steering rod
- Steering rod lockable in transport and working position
- Vibration and throttle regulation on the steering rod
- Highly wear resistant base plate
- Fully protected V-belt
- Recoil starter
- Back-up drive protection



Forward plate compactors		BPR 35/42D	BPR 35/60	BPR 35/60D	BPR 45/55D	BPR70/70D
Weight	(kg)	207	202	222	400	570
Plate width	(mm)	420	600	600	550	700
Plate length	(mm)	762	762	762	900	980
Max. gradeability	%	33	32	32	35	35
Engine		Hatz 1B20 *	Honda GX160	Hatz 1B20 *	Lombardini 15LD440	Hatz 1D81 *
Performance	(kW)	3.1	3.6	3.1	6.8	9.3
Fuel consumption	(l/hour)	0.7	1.1	0.7	1.4	2.0
Fuel capacity	(l)	3.0	3.6	3.0	5.0	10.0
Frequency	(Hz)	80	80	80	70	66
Cenrifugal force	(kN)	35	35	35	45	70
Part number						

\* Diesel

## PEDESTRIAN ROLLERS



Earthwork and asphalt applications.

New construction and repairs of sidewalks, hard shoulders, cycle paths, yards and drive ways, children playgrounds, tennis and sports grounds as well as agricultural and forestry road construction

### Features:

- Sprinkler system
- Vibration dampened steering rod
- Height adjustable steering rod
- Vibration and throttle regulation on the steering rod
- Scrapers front and rear
- Automatic shutdown at low oil level
- Single point lifting device
- Safety control
- Back-up drive protection



Pedestrian rollers		BW 55E	BW 71E-2	BW 65H	BW 75H
Operating weight	(kg)	150	488	757	1040
Width	(mm)	560	710	650	750
Length	(mm)	1100	2200	2320	3010
Max. gradeability	%	25/20	25/20	40/35	40/35
Engine		Honda GX120	Hatz 1B20 *	Hatz 1D42 *	Yanmar L100
Performance	(kW)	2.5	3.4	6.2	6.2
Fuel consumption	(l/hour)	0.7	0.8	1.3	1.5
Fuel capacity	(l)	2.5	5.1	5.0	5.5
Frequency	(Hz)	75	55	55	42/42
Cenrifugal force	(kN)	10	16	22	40
Part number					

\* Diesel

BW 55E & BW 71E-2 Single Drum. BW 65H & BW 75H Double Drum

## RADIO REMOTE TRENCH ROLLER



Earthwork applications.

Trench and sewer line construction, backfills and foundation work – wherever high demands are placed on mobility, manoeuvrability and simple operation under severe soil conditions.

### Features:

- Drum extensions (610/850mm)
- Hydrostatic articulated steering, maintenance free
- Combination remote control cable/radio
- Dual directed-vibration system
- Two travel speed ranges
- 2 amplitudes
- Intelligent Vibration Control (IVC)
- Electric starter
- Hydrost. service brake
- Hydro-mechanical parking brake
- BOMAG Operator Safety System
- 2 scrapers per drum



Radio remote trench roller		BMP 8500
Weight	(kg)	1595
Width	(mm)	610 / 850
Length	(mm)	1897
Max. gradeability	%	55/45
Engine		Kubota D1005
Performance	(kW)	14.5
Fuel consumption	(l/hour)	3.1
Fuel capacity	(l)	24.0
Frequency	(Hz)	42/42
Centrifugal force	(kN)	72/36
Part number		



## TANDEM ROLLERS



Earthwork and asphalt applications.

New construction and repair work for medium and small scale construction projects, on parking lots, sidewalks, cycle paths, playing fields and sports grounds as well as rolling of joints in road construction.

### Features:

- Hydrostatic travel and vibration drive
- Pressure sprinkler system with interval switch
- 2 scrapers per drum, spring loaded and tiltable
- Multi function travel lever
- Multi-function display
- Emergency STOP
- Intelligent Vibration Control (IVC)
- Adjustable operator's seat
- V-belt protection
- Working lights front and rear



Tandem rollers		BW 80AD-5	BW 100ADM-5	BW 100AD-5	BW 120 AD-5	BW 135 AD-5	BW 138 AD-5
Operating weight	(kg)	1550	1700	2600	2750	4000	4400
Width	(mm)	800	1000	1000	1200	1350	1380
Length	(mm)	2194	2194	2529	2529	2840	2840
Max. gradeability	%	40/35	40/35	40/30	40/30	40/30	40/30
Engine		Kubota D902	Kubota D902	Kubota D1803	Kubota D1803	Kubota V2203	Kubota V2203
Steering oscillating angle+/-	(grad)	33/8	33/8	32/10	32/10	32/10	32/10
Performance	(kW)	15.1	15.1	24.6	24.6	33.3	33.3
Fuel capacity	(l)	30	30	35	35	55	55
Water capacity	(l)	100	100	205	205	310	310
Frequency	(Hz)	42/63	42/63	63/67	63/67	50/56	50/56
Centrifugal force	(kN)	7/17	8/17	30/34	36/41	39/48	45/47
Part number							

## PROFESSIONAL COMPACTION CAN BE MEASURED



When has the correct degree of compaction been reached? Without knowing this, it's not possible to decide when the compaction process is finished. After all, nobody these days has the time or money to spend on unnecessary passes. BOMAG is a pioneer in measuring systems for compaction technology in many machines that help you achieve optimal compaction results while saving time and money: Minimal passes with maximum compaction.

### OPERATORS SEE WHEN THEY ARE FINISHED

Unique in compaction technology: The BOMAG ECONOMIZER indicates the degree of compaction on a display enabling the operator to achieve optimum compaction results. It is very simple to use because no activation or calibration is required. The ECONOMIZER automatically determines compaction progress. A lighting strip shows the operator when the process is finished to avoid over-compaction. A warning light gives advance notice in case there is a risk of over-compaction.

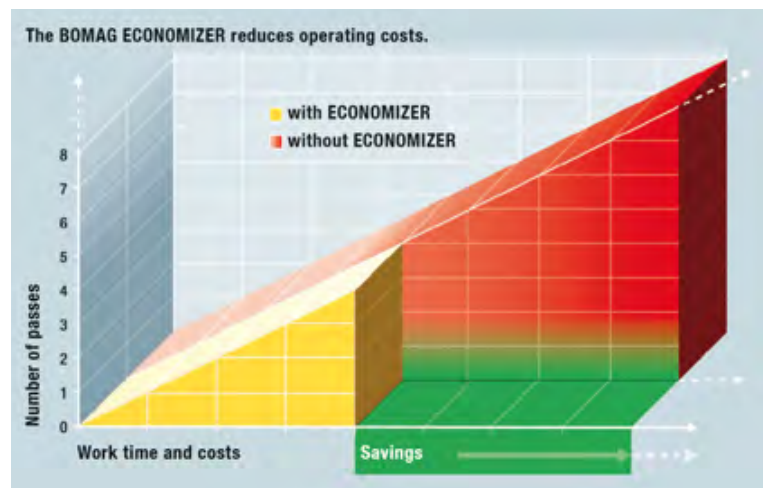
### ECONOMIC COMPACTION

Fewer passes not only save time, money and fuel, but also reduce wear and tear and ensure stress-free and flexible working on the site. Simple and safe application.

### EASY AND SAFE OPERATION

- Start vibration (no separate power-up or calibration)
- Monitor compaction (display of compaction progress and compaction status on the display; from BW141 upwards, display of the optimum speed)
- Save time and money: Maximum compaction is achieved when the number of lamps in the display ceases to increase. If there is a risk of excessive compaction, or the plate or drum cracks, a warning light appears and the operator can halt compaction.

Where there is a risk of over-compaction or if the plate or drum starts to bounce, a warning light is illuminated as an indication that compaction should be terminated.





Atlas Copco UK is based in Hemel Hempstead and provides high quality compressors, power tools and construction & mining equipment.

Atlas Copco is a world-leading provider of sustainable productivity solutions. The Group serves customers with innovative air compressor technology, vacuum solutions and air treatment systems, construction and mining equipment, power tools and assembly systems. Atlas Copco develops products and services focused on productivity, energy efficiency, safety and ergonomics.

The company was founded in 1873, they are based in Stockholm, Sweden, and have a global reach spanning more than 180 countries. The customer centre in the UK is head-quartered in Hemel Hempstead, Hertfordshire, and consists of four divisions: Compressor Technique, Industrial Technique, Construction Technique and Mining & Rock Excavation.

#### Construction Equipment & Portable Energy

Atlas Copco Construction Technique provides construction & demolition tools, portable compressors, pumps and generators, lighting towers, and compaction & paving equipment.

It offers service through a global network. Construction Technique innovates for sustainable productivity in infrastructure, civil works and road construction projects.

## SB HYDRAULIC BREAKERS

For carriers from 0.7-17 t



### Applications:

- Scaling
- Secondary rock breaking
- Demolition & renovation
- Trenching
- Gardening & landscaping
- Cleaning & debricking in metallurgical industry

### Features:

- SolidBody design
- EnergyRecovery
- AutoStart
- Pressure relieve valve
- Floating bushing and patented tool locking system
- Water & air flushing port

- Double tool retainer bars
- Integrated maintenance free accumulator
- Internal control valve

### Options:

- ContiLube™ II micro/ ContiLube™ II
- Scaler version (SB 302 and SB 452)



Breakers		SB 52	SB 102	SB 152	SB 202	SB 302	SB 452	SB 552	SB702
Carrier weight class <sup>1)</sup>	t	0,7-1,1	1,1 - 3	1,9 - 4,5	2,5 - 6	4,5 - 9	6,5-13	9 - 15	10 - 17
Service weight <sup>2)</sup>	kg	55	90	140	200	300	440	520	720
Working tool diameter	mm	40	45	50	65	80	95	100	105
Max. hydraulic input power	kW	7	9	11	17	20	25	29	34
Oil flow rate	l/min	12-27	16-35	25-45	35-65	50-80	55-100	65-115	80-120
Operating pressure	bar	100-150	100-150	100-150	100-150	100-150	100-150	100-150	120-170
Impact rate	bpm	750-1700	750-2300	850-1900	850-1800	600-1400	550-1250	650-1150	600-1050
Sound power level guaranteed (Silenced versions) <sup>3)</sup>	dB(A)	117	115	114	118	119	122	126	122
Part number - Standard version (Silenced)		8460 0300 10	8460 0300 30	8460 0300 40	8460 0300 50	8460 0300 60	8460 0300 70	8460 0300 80	8460 0300 85

<sup>1)</sup> Weights apply to standard carriers only. Any variances must be agreed with Atlas Copco and/or the carrier manufacturer prior to attachment.

<sup>2)</sup> Breaker with standard adapter plus working tool and screw kit.

<sup>3)</sup> Important: EN ISO 3744 in accordance with directive 2000/14/EC.





# WORKING TOOLS

## Hydraulic Breakers

Atlas Copco Working Tools are the only tools designed, tested and approved for use on the Atlas Copco breakers. They are specifically adjusted to all surrounding breaker components, with minor tolerances in dimensions and hardness levels. They can be set to work on the toughest job sites and for the most complex applications. They have been manufactured with the same accuracy as Atlas Copco hydraulic breakers. The choice of materials, hardening technology and design are just a few of the characteristics that allow our working tools to score highest when compared to other manufacturers.

This results in longer lifetime, while protecting the breaker from secondary damage (e.g., on the piston, cylinder, or bushings), leading to reduced cost of operation. Competitors' working tools often show inadequate hardness, an incorrect profile, or an inappropriate shape of the impact surface (concave), which can lead to expensive secondary damage to your breaker.

Atlas Copco Working Tools for hydraulic breakers are high-quality, reliable, and offer optimal durability. They are the right choice to protect your investment in the Atlas Copco breaker and contribute to a low life cycle cost and increased productivity.

## TOOL TYPE OVERVIEW

TOOL TYPE	MOIL POINT	CHISEL	BLUNT TOOL
Working principle			
Key properties	Excellent penetration and good wedge effect	Good penetration and excellent wedge effect	Excellent energy transmission
Use in sedimentary rock	Primary breaking in lightly fissured or monolithic rock	Primary breaking in heavily fissured rock	Secondary breaking (breaking oversizes)
Use in crystalline/magmatic rock		Primary breaking in heavily fissured rock	Primary breaking in lightly fissured or monolithic rock, as well as secondary breaking (breaking oversizes)

## WORKING TOOL RECOMMENDATION

MATERIAL	USE	SPECIFICATIONS	TOOL TYPE
Concrete	Thin and thick floors, walls	Reinforced	Chisel
		Non-reinforced	Moil point
	Foundations	Reinforced	Chisel
		Non-reinforced	Moil point
	Blocks, columns, support	Reinforced	Chisel
Recycling	/	Blunt tool	
Sedimentary rock (limestone, sandstone, graywacke, calcareous sediment)	Trenching, foundation work, primary quarry breaking	Heavily fissured	Chisel
		Lightly fissured	Moil point
		Monolithic	Moil point
Breaking oversize's	/	Blunt tool	
Crystalline/magmatic rock (magma, greenstone, gabbro, granite...)	Trenching, foundation work, primary quarry breaking	Heavily fissured	Chisel
		Lightly fissured	Blunt tool
		Monolithic	Blunt tool
	Breaking oversizes	/	Blunt tool
Asphalt	Road surfaces, transport routes	Soft structures	Chisel/wide chisel/asphalt cutter
Soil	Frozen ground	/	Chisel/wide chisel/asphalt cutter

### Features:

- Top quality steel properties (alloy with high pureness), optimized heat treatment and overall increased hardness
- Special design of the retainer bar area and chamfers
- Special design of the impact surface, completely flat
- Special painting

### Benefits:

- Protects the working tool and increase the lifetime and reliability of both the hydraulic breaker and the working tool itself
- Minimizes the retainer bar wear and extends the lifetime of the working tool
- Protects the piston and optimizes energy transfer to the working tool, while reducing risk of breakdowns
- Prevents corrosion

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# CHISEL PASTE

## Hydraulic Breakers

Atlas Copco Chisel Paste is a specially designed grease used for lubricating the wear bushings of hydraulic breakers. It avoids damage and prevents cold welding in the area of the bushings.

Standard greases (i.e. those used on excavator bearings) are not designed for the high temperatures that result from the friction between the working tool, bushings and retainer bars when the hydraulic breaker is in operation. They liquefy and disappear. Without greasing, the parts involved in the friction will suffer from accelerated wear.

The chisel paste is a mineral-oil-based paste containing an aluminum content soap and solid lubricants (such as graphite and copper) that can stand operating temperatures in the bushing area from - 20° C to + 1100°C (- 4° F to + 2012 °F).

Its high metal content acts as a ball bearing between the surfaces in contact, minimizing high-temperature friction and hence wear between the chisel, retainer bars and bushings. As a result, Atlas Copco Chisel Paste reduces the cost of operation by extending the lifetime of the wear parts and reducing the risk of working tool fractures.

### Features:

- Excellent EP (Extreme Pressure) properties and good release effect
- Temperature range from -20°C to +1100°C / -4°F to +2012°F
- Age-resistant composition
- Atlas Copco Chisel Paste is available on Contilube II and Contilube II Micro cartridges. They can be refilled using grease containers of 15kg and 45kg (33lb and 99lb)

### Benefits:

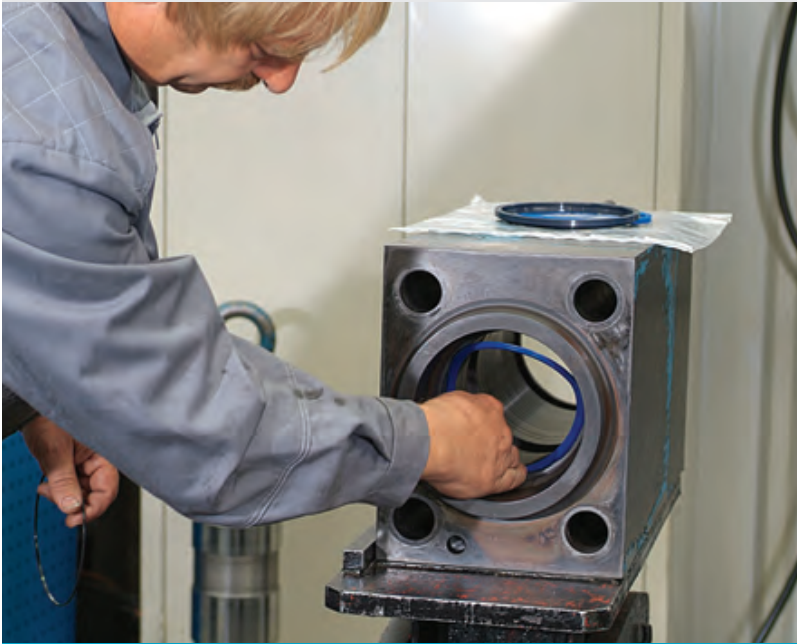
- The solids content (specially the metal content) acts as a ball bearing, resulting in considerably less wear on the bushings and working tools.
- You can work with your breaker long, continuous periods, even in warmer climates, with the chisel paste keeping its protective properties.
- No need to replace grease cartridges after long idle periods of the breaker. Chisel paste keeps their protective properties, even when breaker is used occasionally
- Fast and clean change of cartridges on the Contilube II lubrication system, when you run out of chisel paste

CHISEL PASTE	USE
150g / 5.3 oz cartridges for ContiLube II Micro	For automatic lubrication in Atlas Copco breakers fitted with ContiLube II Micro. Refillable.
500g/ 17.6 oz cartridges for ContiLube II	For automatic lubrication in Atlas Copco breakers fitted with ContiLube II and manual greasing with a grease gun. Refillable.
400g / 14 oz cartridges	For manual greasing with a grease gun in all breakers, including handheld hydraulics, from all brands.



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## GIVE YOUR BREAKER ANOTHER LIFE



# REFURBISHMENT PROGRAM

## Hydraulic Breakers

Atlas Copco breakers have a proven reputation for outstanding quality, superior productivity and long operating lifespan, resulting in a low cost of operation. Across the world, thousands of breakers are demonstrating their superior power, working on a range of challenging applications: demolition, primary and secondary breaking on quarries, tunnel excavation, trenching, rock excavation, and more...

### Solving breakdowns

Despite the high quality of the materials used, the friction between the piston and the cylinder, combined with the extreme stresses of hitting surfaces hundreds of times per minute, will eventually end the life of the percussion piston and the cylinder. Replacing these affected parts with new, well-designed and high-quality parts is key to solving major breakdowns.

### GOLD and DIAMOND refurbishment offer

In the event of a major breakdown, Atlas Copco now goes even further by offering a whole new level of service: a complete refurbishment of the breaker. This includes much more than simply returning the breaker to operation. After refurbishment, your breaker will be in optimum condition, ready for a new lease of life. We offer two programs: GOLD (incl. piston replacement) and DIAMOND (incl. piston + cylinder replacement).

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REFURBISHMENT	GOLD	DIAMOND
All-in-one box kits	Wear parts	Wear parts
	Piston	Piston
		Tensioning bolts
		Cylinder
Box	Sandblasting + painting + stickers	
Box refurbishment (optional)	Welding and metal work on worn areas	
Labor	Labor	

Features:	Benefits:
<ul style="list-style-type: none"> <li>An experienced and trained technician will conduct the refurbishment, inspecting everything in detail, and replacing all parts.</li> </ul>	<ul style="list-style-type: none"> <li>High-quality overhaul</li> </ul>
<ul style="list-style-type: none"> <li>Genuine parts, with the same quality, design and tolerances as those used when the breaker was first manufactured.</li> </ul>	<ul style="list-style-type: none"> <li>Genuine parts will ensure your breaker's productivity will be optimized again.</li> </ul>
<ul style="list-style-type: none"> <li>Attractive investment</li> </ul>	<ul style="list-style-type: none"> <li>For much less than the cost of a new unit, your breaker will be up and running in optimal condition and keep working for a long period.</li> </ul>
<ul style="list-style-type: none"> <li>Maximized residual value</li> </ul>	<ul style="list-style-type: none"> <li>Production demands change over time, and in the future you may need a bigger or smaller breaker. Refurbishing your breaker, you will easily earn back your investment. When you trade it in for a new model, the residual value of your old refurbished unit will be much higher</li> </ul>

**Contact your Atlas Copco service center or authorized distributor**  
All HB models and the major sizes of MB are included in these programs. The skilled technicians of our Atlas Copco service centers and authorized distributors will conduct the refurbishment — fast and at a location close to you.

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## COBRA PETROL BREAKER

### GRAB AND GO!



The Cobra PROi is the ideal breaker when working on remote sites, whether breaking concrete or cutting asphalt.

#### Features:

- Up to 10% saving in fuel consumption
- Up to 10% more power at all working speeds
- Less routine maintenance
- Reliable starting regardless of the altitude or climate

The Cobra TTe is designed for railway applications and specifically for tie tamping. Its impact energy is high enough to push the ballast back under the ties and low enough to avoid pulverising it. The portable nature of the Cobra, combined with a patented vibro-dampening system make the Cobra TTe the easy and safe option.



Cobra PROi petrol breaker		Cobra PROi	Cobra TTe
Weight	(kg)	24	24
Length	(mm)	927	927
Impact energy	(Joules)	60	40
Impact rate	(blows/min)	1,440	1,620
Power	(kW)	2	1.5
Motor	(cc)	90, 2 stroke	90, 2 stroke
Fuel capacity	(l)	1.0	1.0
Fuel mixture	(%)	2	2
Fuel consumption	(l/hour)	0.8	0.8
Vibration level 3 axes (ISO 28927-10)	(m/s <sup>2</sup> )	3.8	3.8
Part number		8318 0702 01	8318 0701 11



## PORTABLE AIR COMPRESSORS



Atlas Copco's compressors were developed in conjunction with key customers to make sure they are ready to go and easy to move, whenever and wherever you need them. As well as being the perfect companion for pneumatic tools, they are ideal for applications that require high free air delivery such as sandblasting.

The lightweight and compact design of the 8 Series 'ready to go' range means they weigh less than 750kg even with a full fuel tank, aftercooler and generator - so can be towed without a special licence. The inclusion of the updated HardHat® canopy ensures the 8 Series models are tough enough for the harshest conditions.

### Features:

- Ease of operation
- High efficiency
- Long service life
- Low operational cost, high fuel autonomy
- Easy to service
- Low cost of ownership



Compressors		XAS 48 kD Hard Hat	XAS 48 KdG Hard Hat	XAS 68 Kd Hard Hat	XATS 68 Kd Hard Hat
Pressure	Bar	7	7	7	10
Pressure	psi	100	100	100	150
Air Output	cfm	90	90	135	135
Air Output	m3/min	2.5	2.5	3.5	3.5
Air Output	l/s				
Output power	kVA	-	6,5 or 12	-	-
Engine Manufacturer		Kubota	Kubota	Kubota	Kubota
Engine Model		D902	V1505T	V1505	V1505T
Fuel Tank capacity	litres	27	60	60	60
Weight	kg	440	650	650	650

Compressors		XAS 68 KdG Hard Hat	XATS 138Kd Steel	XATS 186Jd Steel	XAVS 186Jd Steel
Pressure	Bar	7	7/10	7/10	10.3/12/14
Pressure	psi	100	100 / 150	100 / 150	150/175/205
Air Output	cfm	135	250 / 195	403/345	400/384/358
Air Output	m3/min	3.5	7 / 5.5	11.4/9.8	11.3/10.9/10.1
Air Output	l/s		118 / 92	190/163	189/181/169
Output power	kVA	6,5 or 12	-	-	-
Engine Manufacturer		Kubota	Kubota	John Deere	John Deere
Engine Model		V1505T	V2403	4045HFC04	4045HFC04
Fuel Tank capacity	litres	60	tbc	168	168
Weight	kg	650	1300	2340	2340

7 bar – 12 bar 



## ALL-IN-ONE BOX

### Portable Compressors from 7 bar to 12 bar

Regular servicing and preventive maintenance of your machines is important to ensure reliable operation and a long lifetime, while minimizing running costs and breakdowns.

An Atlas Copco all-in-one kit brings you many benefits. Our kits feature selected genuine parts that will make it quick and easy to service your machines. There is one part number per kit, so there is no need to order parts separately. This makes it easy for you to order your kit and receive it on time.

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### SAVES YOU TIME, SAVES YOU MONEY

- All required parts in one convenient kit
- High-performance matched filters
- Easy to order, with one part number per kit
- Up to 10% cheaper than buying individual filters



### Portable compressors from 7 bar to 12 bar

Model	Engine	250/500 hours	1000/2000 hours
XAS 37-47	Kd	2912 4426 05 / 2912 4427 06	
XAS 47-57	Kd	2912 4391 06	
XAS 67-77	Dd	2913 4392 06	
XAS 87	Dd	2912 6407 06 / 2912 6407 06	
XAS97	Dd	2912 4393 06	
XAS 137	Dd		2912 4491 06
XAS 38-48	Kd	2912 5000 02	2912 5000 04
XA(H(T))S 38-88	Kd	29112 5001 02 / 2912 5001 03	2912 5001 04
XAS 146-186	Dd COMII	2912 4499 05	2912 4337 06
XAS 186	Dd COMII	2912 4499 05	2912 4338 06

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## START-UP KIT

### Light hydraulic breakers

Atlas Copco's Start-Up Kit answers all your service questions from the day you acquire your new hydraulic breaker.

All you may need to keep your breaker up and running now and in the future is included in the kit. For the first year of operation, the Start-Up Kit bundles together all consumables needed: one extra working tool for your breaker and a box of chisel paste cartridges. The Start-Up Kit also includes a custom Wear & Repair Kit with a set of the main wear parts, which will cover the most common service operations for your breaker.

The Start-Up Kits are available for all current models of Atlas Copco light breakers: SB, SBU, ES ranges, and the EC range up to the 80T. All the kits contain a floating wear bush, which means it can be quickly replaced on-site with basic tools. There's no need to interrupt your activities for a visit to the workshop.

There are various situations in which it is particularly recommended that you invest in a Start-Up Kit. For example, the kit is ideal if you regularly work on projects in remote locations, or if you work on intensive or critical applications. If you lease the breaker, it could also make financial sense to add the kit to your lease package.

In the end, the result is the same: maximum productivity for your breaker and minimum downtime.

**Atlas Copco**

#### Features:

- The Start-Up Kit includes working tools, chisel paste and a set of main wear parts to cover initial service operations to keep your machine in production for one year.

- There is one Start-Up Kit per breaker model and working tool type, which can be ordered using a single reference.

- The Start-Up Kit is delivered in all-in-one box.

- Kits are priced attractively (lower cost than individual items).

#### Benefits:

- Work without interruptions. Working tools, chisel paste and parts are readily available and quickly replaced, increasing your uptime.
- Use of Atlas Copco's genuine working tools, chisel paste and parts extends the lifetime of all major components, saving time and money.
- The Start-Up Kit meets Atlas Copco's warranty requirements.

- Easy to manage: One order includes all articles you will need for your new breaker. Whether you order it directly with your new breaker or afterwards, you will save time and administration costs, compared to finding and ordering individual items.

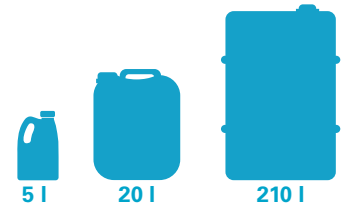
- All articles for the breaker are in one place, which makes it easy to transport. This helps you to save on storage and transport costs, and minimizes the footprint.

- Keeps your maintenance budget low – most cost-effective solution.



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# FLUIDS AND LUBRICANTS

## Portable Compressors

Developed to match our maintenance specifications, Atlas Copco fluids and lubricants help protect your investment, which keeps you productive and improves the resale value of your compressor.

- The correct fluids reduce equipment breakdowns and optimize your machine's performance.
- Quality fluids last longer.
- Ordering from us simplifies the process and eliminates the need to work with multiple suppliers.

	Name:	Size	Part Number:	
	<b>PAROIL M</b> Mineral lubricant	5 l	1615 5947 00	COMPRESSOR OIL
		20 l	1615 5948 00	
		210 l	1615 5949 00	
	<b>PAROIL S</b> Synthetic lubricant	5 l	1630 0160 00	
		20 l	1630 0161 00	
		210 l	1630 0162 00	
	<b>PAROIL S Xtreme</b> Synthetic lubricant for high ambient temperature	5 l	-	
		20 l	1630 0180 00	
		210 l	1630 0181 00	
	<b>PAROIL E</b> Mineral lubricant	5 l	1615 5953 00	ENGINE OIL
		20 l	1615 5954 00	
		210 l	1615 5955 00	
	<b>PAROIL Extra</b> Synthetic lubricant	5 l	1630 0135 01	
		20 l	1630 0136 01	
		209 l	1626 0102 00	
	<b>PAROIL Emission Green</b> Mineral lubricant for Stage 3b/Tier 4 engines	5 l	1630 0471 00	
		20 l	1630 0472 00	
		210 l	1630 0473 00	
	<b>PARCOOL EG</b> Coolant for diesel engines water cooled	5 l	1604 5308 01	COOLER
		20 l	1604 5307 02	
		210 l	1604 5306 01	
	<b>PARCOOL EG Concentrate</b> Coolant for diesel engines water cooled	5 l	1604 8159 01	

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## RAMMERS



### Applications:

- Compacting medium to deep layers of cohesive soils, such as clay or silt but also sand and gravel
- Repair jobs and in confined areas such as trenches, around pillars and on housing sites

### Advantages:

- High compaction efficiency
- Easy to operate
- Service friendly
- Low maintenance and low fuel consumption

### Features:

- Sealed, multi-function tank with throttle control (stop/idle/run)
- Honda 4-stroke engine with new carburettor
- Patented air breather system for easy start
- Easy access to all daily service points
- Efficient shock absorbers



Rammers		LT5005		LT6005		LT800	
		6"	9"	9"	11"	11"	13"
Operating weight	kg	61	62	68	69	84	85
Frequency	Hz	12	11	12	12	12	12
Amplitude	mm	50-60	50-60	65-75	65-75	75-85	75-85
Speed	m/min	15-18	15-18	15-18	15-18	13-16	13-16
Force/blow	kN	15	15	15	15	21,4	21,4
H/A vibrations, standard handle	m/s <sup>2</sup>	6,4	6,4	6,4	6,4	12,6	12,6
Sound power, guaranteed	dB(A)	92	92	106	106	107	107
Sound pressure at operators ear	dB(A)	92	92	92	92	95	95
<b>Dimensions</b>							
Plate width	mm	150	230	230	280	280	330
Plate length	mm	330	330	330	330	330	330
LxWxH	mm	726x345x1025	730x345x1025	730x345x1025	730x345x1060	810x422x1074	810x422x1074
<b>Engine</b>							
Model		Honda GXR120	Honda GXR120	Honda GXR120	Honda GXR120	Hatz 1B20	Hatz 1B20
Rated power	kW	2,6	2,6	2,6	2,6	3,4	3,4
Part number		3382 0003 67	3382 0002 25	3382 0003 53	3382 0002 24	3382 0000 50	3382 0000 51

## FORWARD PLATE COMPACTORS

### SOIL COMPACTION



#### Applications:

- Compacting thin to medium layers of granular soils
- Block paving
- Repair jobs and maintenance work such as driveways, sidewalks and parking lots

#### Advantages:

- High speed
- Operator comfort
- Easy transportation
- Longer service life



#### Features:

- Specially engineered bottom plate
- Unique vibration-reduced handle
- Wheels for easy transfer around work sites
- Stowable handle for easy transportation and storage
- Long life V-belt thanks to cooling fan and ventilated cover

#### Options:

- Block paving kit (LF60A-130)
- Fork lifting device (LF75-100, standard on LF130)
- Water tank.  
For upgrading soil plates, LF75–LF100, to Soil & Asphalt versions

Forward Plate Compactors		LF50L	LF80L	LF100L	LF130L	LF130L
Fuel		Petrol	Petrol	Petrol	Diesel	Petrol Diesel
Operating weight	kg	53	82	97	106	135 141
Frequency	Hz	95	95	95	95	95 95
Amplitude	mm	0,9	1,3	0,9	0,9	0,9 0,9
Centrifugal force	kN	8	19	17	17	20 20
Speed	m/min	24	33	25	25	22 22
H/A vibrations, standard handle	m/s <sup>2</sup>	6,9	6,7	6,0	9,3	5,4 9,3
H/A vibrations, low vibration handle	m/s <sup>2</sup>	1,8	1,2	1,3	1,9	1,1 1,9
Sound power, guaranteed	dB(A)	100	103	104	104	104 104
Sound pressure at operators ear	dB(A)	89	91	93	93	93 93
<b>Dimensions</b>						
Plate width	mm	320	420	500	500	500 500
Plate length	mm	505	570	595	595	580 580
LxWxH	mm	940x320x965	960x420x995	960x500x995	960x500x995	960x500x995 960x500x995
<b>Engine</b>						
Model		Honda GX100	Honda GX160	Honda GX160	Hatz 1B20	Honda GX160 Hatz 1B20
Rated power	kW	2,2	4,1	4,1	2,5	4,1 2,5
Part number		3382 0000 32	3382 0000 25	3382 0000 28	3382 0000 30	3382 0000 34 <sup>1)</sup> 3382 0000 35 <sup>1)</sup>
Part number with water tank		-	3382 0000 26 <sup>1)</sup>	3382 0000 31	3382 0000 29 <sup>1)</sup>	- -

<sup>1)</sup>With transport wheels

## FORWARD PLATE COMPACTORS

### SOIL AND ASPHALT COMPACTION



#### Applications:

- Asphalt repair and maintenance work such as driveways, sidewalks and parking lots
- Compacting thin to medium layers of granular soils
- Block paving

#### Advantages:

- High speed
- Operator comfort
- Easy transportation
- Longer service life

#### Features:

- Smart water distribution system
- Removable, 13-liter water tank for LF60LA / LAT = 5 litres
- Patented vibration reduced handle
- Specially engineered bottom plate
- Wheels for easy transport around work sites
- Stowable handle for easy transportation and storage



Forward plate compactors		LF75	LF 60 LA	LF 60 LAT	LF100		
Fuel		Petrol	Petrol	Petrol	Petrol	Diesel	
Operating weight	kg	92	95	62,5	67	107	116
Frequency	Hz	95	95	95	95	95	95
Amplitude	mm	1,0	1,0	0,9	0,9	0,9	0,9
Centrifugal force	kN	15	15	10,4	10,4	17	17
Speed	m/min	27	25	25	25	25	25
H/A vibrations, standard handle	m/s <sup>2</sup>	6,0	6,0	7,9	7,9	6,0	9,3
H/A vibrations, low vibration handle	m/s <sup>2</sup>	1,2	1,2	1,9	1,9	1,3	1,9
Water sprinkler kit	l	13	13	adjustable flow	adjustable flow	13	13
Sound power, guaranteed	dB(A)	102	102	100	100	104	104
Sound pressure at operators ear	dB(A)	91	91	88	88	93	93
<b>Dimensions</b>							
Plate width	mm	420	500	350	350	500	500
Plate length	mm	570	570	545	545	595	595
LxWxH	mm	960x420x995	960x500x995	986x350x968	986x350x968	960x500x995	960x500x995
<b>Engine</b>							
Model		Honda GX160	Honda GX160	Honda GX100	Honda GX100		Hatz 1B20
Rated power	kW	4,1	4,1	2,2	2,2	4,1	2,5
Part number		3382 0000 23 <sup>1)</sup>	3382 0000 21 <sup>1)</sup>	3382 0003 72	3382 0005 54	3382 0000 27 <sup>1)</sup>	3382 0000 29 <sup>1)</sup>
Part number without water tank		3382 0000 22	3382 0000 24	-	-	-	3382 0000 30

1) With water tank and transport wheels

## FORWARD AND REVERSIBLE PLATE COMPACTORS

### Applications:

- Compacting medium to deep granular soil layers
- Confined areas such as trenches, car parks, foundations)
- Block paving

### Advantages:

- Hydraulic forward/reverse lever
- Foldable lifting eye
- Fuel tank access under the plastic hood
- Hardox 400 bottom plate
- Available with BIO hydraulic oil
- Easy access to all service points



### Features:

- High compaction efficiency
- Ergonomic and easy to operate
- Durable
- Long service life
- Time saving

Forward and reversible plate compactors	LG164 350mm	LG164 450mm	LG164 350mm	LG164 450mm	LG200 600mm	LG200	LG200	LG200
Fuel	Petrol	Petrol	Diesel	Diesel	Diesel	Petrol	Diesel	Diesel
Starter type	Manual start	Manual start	Manual start	Manual start	Manual start	Manual start	Manual start	Electric start
Plate width mm	350	450	350	450	600	500	500	500
Operating weight kg	148	157	166	170	176	217	231	247
Frequency Hz	80	80	80	80	80	65	65	65
Amplitude mm	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
Centrifugal force kN	28	28	28	28	28	36	36	36
Speed m/min	22	22	22	22	22	25	25	25
H/A vibrations, standard handle m/s <sup>2</sup>	2.3	2.3	3.2	3.5	3.7	3.5	3.5	3.5
Sound power, guaranteed dB(A)	108	108	108	108	108	105	108	108
Engine	Honda	Honda	Hatz	Hatz	Hatz	Honda	Hatz	Hatz
Model	GX160	GX160	1B20	1B20	1B20	GX200	1B20	1B20
Rated power kW	3.6	3.6	3.1	3.1	3.1	4.8	3.1	3.1
Part number	3382 0005 86	3382 0005 87	3382 0005 84	3382 0005 85	3382 0005 96	3382 0005 65	3382 0005 66	3382 0005 67
with BIO oil	3382 0005 91	3382 0005 89	3382 0005 92	3382 0005 88				



## PNEUMATIC VIBRO-REDUCED HAMMERS TEX 05-TEX 12



6,5-12 kg

Applications depending on weight class:

- Light duty chipping and scaling work
- Renovation and conversion work
- Demolition
- Kiln stripping

Features:

- Full canopy vibro-reduction (TEX 05, 09 and 12)
- Noise-reduction
- SOFSTART™ two-step trigger
- HAPST™ Hand and Arm Protection System
- Air cushioned piston (TEX 05, 09 and 12)
- Easy handling and positioning



Pneumatic hammers		TEX 05PE <sup>1</sup>	TEX 07PE	TEX 07PE FSH <sup>2</sup>	TEX 09PE/PER <sup>1,2</sup>	TEX 12PE/PER <sup>1,2</sup>
Weight	kg	6,5	8,5	9	10,5	12
Length	mm	450	525	525	560	590
Air consumption	l/s	10	17	17	17	20
Impact rate	blows/min	2640	1770	1770	1800	1620
Vibration level 3 axes (ISO 28927-10)	m/s <sup>2</sup>	2,4	12,4	10,5	4,2	4,0
Sound power level guaranteed (2000/14/EC) Lw, dB(A)		105	104	104	105	105
Sound pressure level (ISO 11203)	Lp, r=1m	87	87	87	93	93
Tool retainer		cap	cap	cap	latch	latch
Shank size HEX	mm	19x50	19x50	19x50	22x82,5	22x82,5
Part number (HEX shank)		8461 0219 10	8461 0209 20	8461 0209 21	8461 0211 35	8461 0211 38
Shank size round shank	mm	-	-	-	25x75	25x75
Part number (round shank)		-	-	-	8461 0211 36	8461 0211 39

Data at 6 bar (90 psi) air pressure  
 PE: silenced, vibro-reduced  
 PER: silenced, vibro-reduced,  
 round shank  
 FSH: Front side handle

Suitable couplings:

TEX 05PE	Atlas Copco Standard	9000 0305 00
TEX 09 & 12	Atlas Copco Standard	9000 0306 00
	Atlas Copco Standard w strainer	9000 0306 01
	US standard	9001 0005 06

<sup>1</sup>) Claw couplings not included in delivery of EX 05, 09 and 12.

<sup>2</sup>) Front side handle included

# RTEX - PNEUMATIC BREAKER

## WITH MORE POWER AND LESS WEIGHT



### Increased profitability:

- Breaking capacity of a 30+kg breaker
- Reducing energy consumption by 50%
- Being 25% lighter

### Features:

- More control for making that crucial first cut
- Reduced air consumption means you can run two tools from one compressor
- Innovative constant pressure control means less vibration than conventional breakers



RTEX Pneumatic breaker		RTEX
Weight	(kg)	25
Length	(mm)	780
Air consumption	(l/s)	18.5
Impact rate	(blows/min)	870
Vibration level 3 axes (ISO 28927-10)	(m/s <sup>2</sup> )	4.8
Sound power level guaranteed (2000/14/EC)	(L <sub>w</sub> ,dB(A))	107
Sound pressure level (ISO 11203)	(L <sub>p,r</sub> =1m)	90
Shank size Hex	(mm)	32x152 / 32x160
Part number		8461 0125 30

## PNEUMATIC COMBI DRILLS/ HAMMERS



### Applications:

- Plug hole drilling 8-38 mm diameter
- Wedge hole drilling
- Chipping and scaling
- Renovation and rebuilding
- Underwater work

### Features:

- Built-in air flushing
- Noise-reduction
- Switching between drilling/chipping by change of working tool
- Built-in lubricator



Pneumatic combi drills/hammers		DKR 36R
Weight	kg	4,5
Length	mm	380
Air consumption at 6 bar	l/s	10
Impact rate	blows/min	2820
Revolutions	rpm	250
Penetration rate	mm/min	180 <sup>1)</sup> /160 <sup>2)</sup>
Hose connection	mm	19
Vibration level 3 axes (ISO 28927-10)	m/s <sup>2</sup>	20,2 (breaking) 21,2 (drilling)
Sound power level guaranteed (2000/14/EC)	L <sub>w</sub> , dB(A)	103
Sound pressure level (ISO 11203)	L <sub>p</sub> , r=1m	88
Shank size	mm	R19x95
Part number		8463 0103 50

<sup>1)</sup> 19 mm drill in granite

<sup>2)</sup> 19 mm drill in concrete

## HYDRAULIC POWER PACKS



### Features:

- Portable, compact and lightweight
- High efficiency, low noise and low fuel consumption thanks to Power On Demand function (available with selected models only)
- Low maintenance, long lifetime – moving parts move in a closed lubricated circuit
- Protective steel frame with foldable handles
- Lifting eye and cross lifting bar
- No exhaust or emission from the tools – power pack with engine can be placed away from tool
- Large return filter and replacement indicator
- Thermostatically-controlled oil cooler



Power packs		LP 9-20 P <sup>2)</sup>	LP 13-30 P <sup>2) 3)</sup>	LP 18-30 PE	LP 18-40 PE
Fuel		Petrol	Petrol	Petrol	Petrol
Engine		9 HP Honda	13 HP Honda	18 HP B&S Vanguard	18 HP B&S Vanguard
Weight (incl. oil)	kg	76	91	119	119
Dimensions (LxWxH)	mm	605x505x620	745x600x705	790x605x745	790x605x745
Oil flow	l/min	20	20-30	20-30	20-40
Maximum pressure	bar	150	150	170	145
Fuel capacity	l	6	6,5	8,5	8,5
Hose included		YES	YES	NO	NO
Power on Demand (POD)		YES	YES	NO	NO
Oil control: engine oil		YES	YES	YES	YES
Electric start		NO	NO	YES	YES
Sound power level guaranteed (2000/14/EC) L <sub>w</sub> , dB(A)		101	101	101	101
Sound pressure level (ISO 11203) L <sub>p</sub> , r=1m		87	89	88	89
EHTMA class		C	C/D	C/D	C/D/E
Part number		1807 0080 44	1807 0110 12	1807 0160 41	1807 0160 38
Part number <sup>1)</sup>		1807 0080 45	1807 0110 23	-	1807 0160 40

<sup>1)</sup> Not sold within EU <sup>2)</sup> 7 Extension twin-hose comes as standard with LP 9-20 P and LP 13-30 P

<sup>3)</sup> LP 13-30P, LP 13-20DEL, LP 18 Twin E and PE is with Stainless steel tubular frame.



# HYDRAULIC VIBRO REDUCED BREAKERS



## Applications:

- Medium and hard materials like asphalt and concrete

## Features:

- Vibro-reduction
- Vibro-damping chisel bushing
- Low noise levels
- Slim design
- High power to weight ratio
- High back pressure (HBP) versions for skid steer connections



Breakers		LH 190 E	LH 230 E	LH 230 E HBP	LH 280 E	LH 280 E HBP	LH 400 E	LH 400 E HBP
Weight <sup>1)</sup>	kg	25	28	28	32,5	32,5	39	39
Length <sup>2)</sup>	mm	650	735	735	765	765	765	765
Oil flow	l/min	20	20-30	20-30	20-30	20-30	30-40	30
Working pressure	bar	95-110	105-125	115-130	110-125	115-130	110-125	115-130
Max back pressure	bar	10	15	35	15	35	15	20
Impact rate	blows/min	1400	1500-2100	1500-2100	1350-1750	1350-1750	1150-1600	1150-1600
Vibration level 3 axes (ISO 28927-10)	m/s <sup>2</sup>	5	4,6	4,9	4,6	5,5	5,4	6,3
Sound power level guaranteed (2000/14/EC)	Lw, dB(A)	106	107	107	107	107	106	106
Sound pressure level (ISO 11203)	Lp, r=1m	93	95	95	94	94	93	93
EHTMA class		C	C/D	C/D	C/D	C/D	D/E	D

Part number	LH 190 E	LH 230 E	LH 230 E HBP	LH 280 E	LH 280 E HBP	LH 400 E	LH 400 E HBP
Hex 25x108	1801 3443 41	1801 3543 51	1801 3546 92	-	-	-	-
Hex 28x152	1801 3443 42	1801 3543 52	1801 3546 93	1801 3643 60	1801 3647 01	1801 3743 68	1801 3747 09
Hex 28x160	1801 3443 43	1801 3543 53	1801 3546 94	1801 3643 61	1801 3647 02	1801 3743 69	1801 3747 10
Hex 32x152	1801 3443 44	1801 3543 54	1801 3546 95	1801 3643 62	1801 3647 03	1801 3743 70	1801 3747 11
Hex 32x160	1801 3443 45	1801 3543 17	1801 3546 96	1801 3643 63	1801 3647 04	1801 3743 71	1801 3747 12

<sup>1)</sup> LH 190 E with Hex 25, LH 230 E, LH 280 E and LH 400 E with Hex 32.

<sup>2)</sup> Lengths for LH 190 E with Hex 25, LH 230 E, LH 280 E, LH 400 E with Hex 32

## HYDRAULIC PUMPS



### Applications:

Pumping of clean or contaminated water and slurry:

- On building sites
- In flooded excavations
- In cellars
- In wells

### Features:

- Spark proof motor
- Can run dry
- LWP 2 is for clean water and will accept small stone and debris up to 10 mm in size
- LTP 3 is a slurry pump and will pump water and slurry with particles up to app 60 mm
- Including 10 m discharge hose with quick coupling



Water pumps		LWP 2	LTP 3
Weight	kg	11	13
Width	mm	225	300
Oil flow	l/min	18-24	26-38
Working pressure	bar	100	140
Maximum Pressure	bar	172	172
Pump head max	m	25	32
Pump flow max	l/min	840	1920
Discharge		2"	3"
Solids handling up to	mm	10	60
EHTMA	class	C	D
Part number		1806 1014 34	1806 1014 35

## HYDRAULIC CORE DRILLS



### Applications:

- Safe handheld drilling in reinforced concrete and asphalt up to 200 mm diameter in confined spaces, for ventilation, heating, gas piping and other installations
- Works efficient also in underwater applications



### Features:

- High power to weight ratio
- Low vibrations
- Low kick-back
- Hydraulic torque control
- Fits in standard drill stands
- Closed hydraulic circuit
- Comes in carrying steel case as standard

Core drills		LCD 500	LCD 1500
Weight including hoses	kg	9,5	9
Oil flow rate	l/min	20-30	20-30
Length without drill	mm	414	406
Working pressure	bar	60-120	60-120
Revolutions	rpm	600-900	1500-2250
Drill diameter	mm	50-202	12-75
Thread female (drive) <sup>1)</sup>		½" BSP	½" BSP
Vibration level 3 axes (ISO 28927-5)	m/s <sup>2</sup>	3,1	2,7
Sound pressure level (ISO 11203)	Lp, r=1m	<70	<70
EHTMA class		C/D	C/D
Part number		1806 1014 38	1806 1014 39

<sup>1)</sup> 1/2" BSP male x 1 1/4 UNC male drive adaptor included for use of larger diameter core bits.

## HYDRAULIC CUT-OFF SAWS



### Applications:

- Cuts 133-160 mm depth
- Works in dust, slurry and underwater
- Used for cutting:
  - Concrete, reinforced concrete
  - Asphalt
  - Steel



### Features:

- Simple design with direct drive motor
- Open visible cutting face
- Good power-to-weight ratio
- Compact and slim design

Cut-off saws		LS 14	LS 16
Weight including hoses	kg	12	13
Oil flow	l/min	20-30	20-40
Maximum pressure	bar	172	172
Revolutions	rpm	2500-4000	2000-4000
Speed	m/s	46-75	42-85
Disc size	mm	355	405
Arbor size	mm	25,4	25,4
Cutting depth	mm	133	160
Vibration level 3 axes (ISO 28927-8) 20 lpm	m/s <sup>2</sup>	4,9	4,9
Sound power level guaranteed (2000/14/EC)	Lw, dB(A)	108	116
Sound pressure level (ISO 11203)	Lp, r=1m	94	102
EHTMA class		C/D	C/D/E
Part number		1809 0140 01	1809 0160 00



## HYDRAULIC POST AND GROUND ROD DRIVERS



### Applications:

- Drives up to 150 mm diameter poles
- For driving of:
  - Road barriers
  - Tubes / profiles
  - Signposts
  - Fences
  - Anchors
  - Ground rod

### Features:

- Available with built-in on/off valve or hose mounted remote on/off valve

### Options:

- Adaptors driving heads
- Kits



Post drivers		LPD-LD-T	LPD-T	LPD-RV	LPD-HD-T	LPD-HD-RV
Activation type		By trigger lever	By trigger lever	By remote valve	By trigger lever	By remote valve
Hydraulic system		Open centre	Open centre	Open or closed-centre	Open centre	Open or closed-centre
Weight including hoses	kg	17,5	32	33	39	40
Driving capacity <sup>1)</sup>	mm	10-60	40-100	40-100	70-150	70-150
Working pressure	bar	80-100	105-140	105-140	105-125	105-125
Oil flow	l/min	20	20-30	20-30	28-40	28-40
Impact rate at 30 l/min	blows/min	2300 (20l/min)	1680 (30l/min)	1680 (30l/min)	1320 (30l/min)	1320 (30l/min)
Hydraulic ports		½" BSP	½" BSP	½" BSP	½" BSP	½" BSP
Vibration level 3 axes (ISO 28927-10) 20 lpm <sup>1)</sup>	m/s <sup>2</sup>	17,5	12,8	-	-	-
Sound power level guaranteed (2000/14/EC)	Lw, dB(A)	116	115	115	118	118
Sound pressure level (ISO 11203)	Lp, r=1m	102	102	102	105	105
EHTMA class		C	C/D	C/D	D/E	D/E
Part number		1801 3940 06	1801 4040 02	1801 4050 02	1801 4140 00	1801 4150 00

## SCRAP CUTTERS

For carriers from 2-4.5 t



### Applications:

- Cutting metal structures (girders, sheets, cables, rods)
- Demolition work with mini excavators or demolition robots inside buildings and in contaminated areas (chemical plants, atomic power plants)

### Features:

- High cutting force along entire blade length
- 360° hydraulic rotation
- Short opening and closing times
- Solid, extremely resistant components
- Replaceable blades



Scrap cutters		SC 270	SC 600
Carrier weight class <sup>1)</sup>	t	2-4.5	5.5-6.5
Carrier weight class <sup>1)2)</sup>	t	2-3	3.5-4.5
Service weight <sup>3)</sup>	kg	385	645
Max. cutting force	t	102	138
Cutting force, jaw tip t	36	46	
Oil flow rate	l/min	60-100	90-120
Operating pressure	bar	250	300
Oil flow rate, rotation	l/min	max. 15	max. 20
Operating pressure, rotation	bar	100	100
Jaw opening, max	mm	185 245	
Jaw depth	mm	170	290
Blade length	mm	160	240
Part number		8460 0100 10	3093 0400 62

<sup>1)</sup> Weights apply to standard carriers only. Any variances must be agreed with Atlas Copco and/or the carrier manufacturer prior to attachment. Mounted on excavator stick.

<sup>2)</sup> Mounted on excavator boom.

<sup>3)</sup> With medium-sized adapter.

## COMBI CUTTERS

For carriers from 2.5-16 t



### Applications:

- Light demolition work, e.g. narrow, lightly reinforced concrete elements, masonry
- Particularly effective for stripping out and reconstructing interiors

### Features:

- Good performance-to-weight ratio
- 360° rotation
- Replaceable blades



Combi cutters		CC 350	CC 650	CC 950 U
Carrier weight class <sup>1)</sup>	t	2.5-5	5-14	9-16
Service weight <sup>2)</sup>	kg	320	630	920
Crushing force, jaw tip	t	40	45	55
Oil flow rate	l/min	50-90	90-180	90-180
Operating pressure	bar	300	350	350
Closing cycle <sup>3)</sup>	s	2,4	3,4	3,2
Opening cycle <sup>3)</sup>	s	2,8	2,6	3,0
Rotary drive		hydr.	hydr.	hydr.
Oil flow, rotation, max.	l/min	10	25	25
Operating pressure, rotation, max.	bar	170	210	210
Jaw opening, max	mm	380	450	650
Jaw depth	mm	220	270	330
Blade length	mm	90	140	140
Part number		3363 1124 47	3363 1042 21	3363 1119 49

## MULTI GRAPPLES

For carriers from 0.7-80 t



### Applications:

- Demolition (masonry, wooden structures)
- Sorting and loading

### Features:

- 360° hydraulic rotary device
- Grapple and wear parts made of carbon steel
- High grapple capacity
- Replaceable blades



Multi grapples		MG 100	MG 200	MG 300	MG 400	MG 500	MG 800
Carrier weight class <sup>1)</sup>	t	0,7-1,2	1,2-3	2-5	4-8	5-9	10-16
Service weight <sup>2)</sup>	kg	90	175	290	450	460	825
Max. closing force	t	0,6	1,5	2,0	2,3	2,4	3,8
Oil flow rate	l/min	15	25	35	40	35-50	70-100
Operating pressure	bar	300	300	300	300	300	350
Oil flow rate, rotation	l/min	3-5	5-10	5-10	10-15	10-15	20-25
Operating pressure, rotation	bar	150-170	150-170	150-170	150-170	150-170	190-210
Capacity	l	30	70	100	150	200	400
Jaw opening	mm	600	750	1100	1400	1500	1700
Grapple width	mm	300	450	500	600	700	800
Part number		1826 1017 61	1826 1017 62	1826 1017 63	1826 1017 64	1826 1017 65	1826 1017 66

Multi grapples		MG 1000	MG 1500	MG 1800	MG 2300	MG 2700	MG 3000	MG 5000
Carrier weight class <sup>1)</sup>	t	12-20	17-28	20-28	25-38	28-50	35-50	50-80
Service weight <sup>2)</sup>	kg	1150	1700	1800	2280	2750	3250	5300
Max. closing force	t	4,6	6,8	6,8	8	9	9	13
Oil flow rate	l/min	85-120	120-170	150-170	160-180	180-200	180-200	280-300
Operating pressure	bar	350	350	350	350	350	350	350
Oil flow rate, rotation	l/min	20-25	30-35	30-35	30-35	30-35	30-35	50-60
Operating pressure, rotation	bar	190-210	190-210	190-210	190-210	190-210	190-210	190-210
Capacity	l	500	800	850	900	1000	1300	1600
Jaw opening	mm	1950	2100	2100	2250	2230	2460	3000
Grapple width	mm	800	1000	1200	1200	1200	1500	1500
Part number		1826 1017 67	1826 1017 68	1826 1017 69	1826 1017 70	1826 1017 71	3363 1167 56	3363 1036 55



# HYDRAULIC COMPACTORS

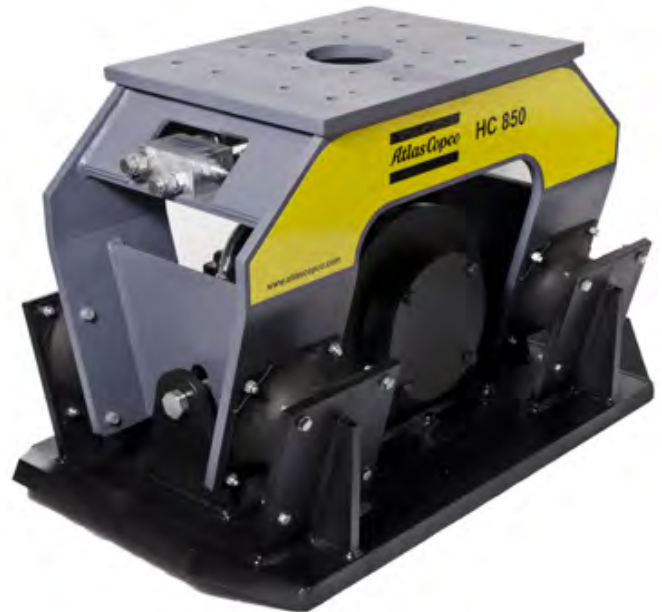


Hydraulic compactors make easy work of the following applications, saving you time and money:

- Compacting soil, trenches and embankments
- Driving in and pulling out posts and formwork

### Features:

- Up and running quickly, with no special installation requirements
- Fit standard adaptor plates and quick coupling systems
- Virtually maintenance free when you use PermanentLube on the bearings
- Excellent force distribution reduces wear
- Hydraulic overloading of the compactor is impossible



Hydraulic compactors		HC 150	HC 350	HC 450	HC 850
Carrier machine class	t	1-3	3-8	4-9	9-20
Operating weight	kg	160	320	430	880
Oil flow	l/m	30	57	76	114
Operating pressure	bar	150	150	150	150
Force	t	1.4	2.3	3.6	7.3
Frequency	n/min	2.100	2.100	2.200	2.200
Plate dimensions	mm	295 x 721	475 x 846	610 x 929	710 x 1272
Work area	m <sup>2</sup>	0.17	0.31	0.40	0.68
Height	mm	486	623	622	764
Part number		1826 1017 46	1826 1017 47	1826 1017 48	1826 1017 49



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### Parts Online



Parts Online is a user-friendly platform that allows you to quickly and easily find spare parts for Atlas Copco construction equipment.

- Search spare parts
- Search exploded views
- Find spare parts catalogues
- Transfer spare parts to Shop Online

 [atlascopco.com/constructionportal/partsonline/](http://atlascopco.com/constructionportal/partsonline/)

Available on:



### Shop online



Atlas Copco Shop Online is an e-commerce system where you can easily manage your orders 24 hours a day, 7 days a week.

- Check availability
- Check prices
- Place orders
- Track orders

 [ShopOnline.atlascopco.com](http://ShopOnline.atlascopco.com)

Available on:



**Atlas Copco**  
Construction Technique Service  
[atlascopco.co.uk](http://atlascopco.co.uk)



Norton Clipper specialises in the production & marketing of machines & diamond tools, intended mainly for use in construction and civil engineering markets. The European head office is ideally located in Luxembourg, at the heart of Europe & the plant is now equipped with a computer-aided designer (CAD), laser-welding robots, sintering presses and segment presses, automatic brazers and a highly automated finishing line.

With nearly 40 years of experience, Norton Clipper offers a range of benefits:

- A wide range of high quality & innovative products.
- Short delivery time from large stocks.
- State-of-the-art manufacture at our Luxembourg production complex producing diamond products of guaranteed quality.
- A responsive R&D program that produces the products our customers demand.
- An outstanding level of support and commitment to customers providing an after-sales service that is second to none.

## Diamond Blades

The most complete range of diamond blade with both high cutting-speed and a good life performance. Whatever the job, Norton can provide the most appropriate diamond blades at the right price!

## Machines

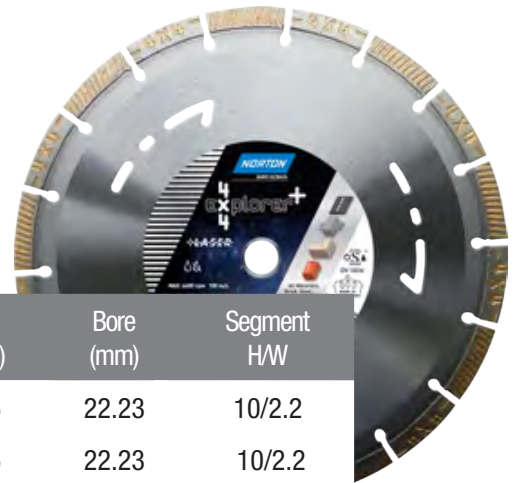
For decades Clipper machines are known to be the standard in the industry. With high quality and robustness Clipper's complete range of masonry saws, tile saws, floor saws, drill rigs or even power floats is your best allied on the job.

## DIAMOND TOOLS FOR GENERAL BUILDING MATERIALS

### 4X4 EXPLORER+ MULTI-PURPOSE

MULTI PURPOSE and VERSATILE laser welded segments for dry or wet cutting. High performance diamond blade, giving LONG LIFE and HIGH SPEED cutting in a wide range of construction materials. Featuring patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction, and ANTI-CRACKS gullets for enhanced safety.

- Most versatile blade, fast cutting in hard materials and long life in abrasive materials
- New specification with 12mm high segments
- Safer design to prevent fatigue cracks, even when cutting in metals (up to 5mm thickness)
- Easier control of the cutting depth during use
- Produces higher segment density for stronger laser welding and longer life



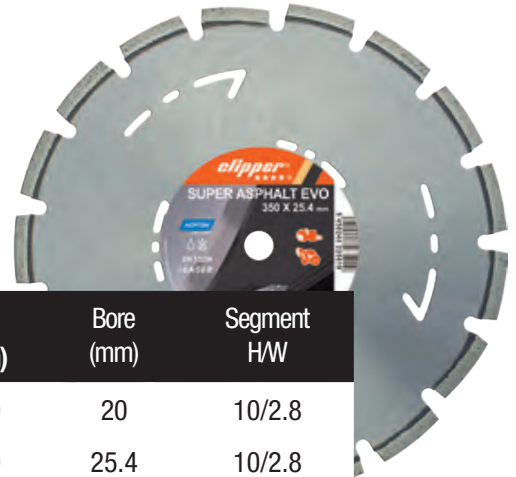
Item No.	EAN 13 Code	Machine Type	Ø (mm)	Bore (mm)	Segment H/W
70184625307	5450248345329		115	22.23	10/2.2
70184647279	5450248557234		125	22.23	10/2.2
70184643654	5450248557241		180	22.23	10/2.5
70184647280	5450248557241		230	22.23	12/2.5
70184646881	5450248549994		300	20	12/3.0
70184646870	5450248548898		300	25.4	12/3.0
70184646154	5450248538448		350	25.4	12/3.2
70184646571	5450248545538		350	20	12/3.2
70184647348	5450248558804		400	25.4	12/3.2
70184647374	5450248559399		400	20	12/3.2
70184647349	5450248558811		450	25.4	12/3.2
70184694008	5450248587248		500	25.4	10/3.8



## DIAMOND TOOLS FOR ASPHALT AND ABRASIVE MATERIALS

### SUPER ASPHALT EVO

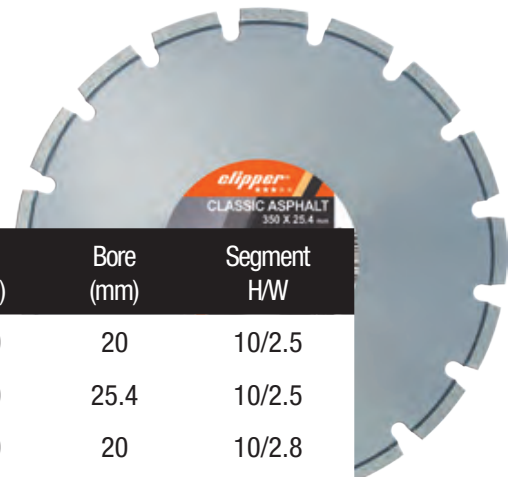
- Very good value for money laser welded blade for intensive use and LONG LIFE in asphalt and abrasive materials
- Undercutting protection on the steel centre thanks to slant segments
- Patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction (up to diameter 450mm)
- Suitable for dry or wet cutting
- For use on asphalt, asphalt over concrete, green concrete and abrasive building materials



Item No.	EAN 13 Code	Machine Type	Ø (mm)	Bore (mm)	Segment H/W
70184623182	5450248234975		300	20	10/2.8
70184623184	5450248234999		300	25.4	10/2.8
70184623185	5450248235002		350	20	10/3.2
70184623186	5450248235019		350	25.4	10/3.2
70184628159	5450248391531		400	25.4	10/3.2
70184628160	5450248391548		450	25.4	10/3.2
70184611979	5450248204350		500	25.4	10/3.8
70184611980	5450248204367		600	25.4	7/3.8

### CLASSIC ASPHALT

- Good value for money laser welded blade
- Suitable for dry or wet cutting
- For use on asphalt, asphalt over concrete, green concrete, abrasive materials and concrete roof tiles



Item No.	EAN 13 Code	Machine Type	Ø (mm)	Bore (mm)	Segment H/W
70184626876	5450248353706		300	20	10/2.5
70184626877	5450248353713		300	25.4	10/2.5
70184626878	5450248353737		350	20	10/2.8
70184626879	5450248353744		350	25.4	10/2.8
70184645242	5450248528043		400	20	10/3.2
70184626880	5450248353751		400	25.4	10/3.2
70184626881	5450248353768		450	25.4	10/3.2
70184694416	5450248687429		500	25.4	10/3.4
70184694417	5450248687436		600	25.4	10/3.6

**NORTON**

SAINT-GOBAIN®

**TIGER**




# IT'S NO PUSSYCAT!

Pound for Pound our **FASTEST** Diamond Blade

Up to **27% faster** cutting than industry equivalent blades\*

Incredibly fast cutting of all general building materials

High performance when cutting granite and hard materials

	Light and medium hard materials, including bricks, blocks, pavements, and general building materials
	Reinforced concrete, concrete kerbs, pipes, lintels, paving stones and hard materials including engineering brick
	Natural stones including granite, marble, slate, hard sandstones and york stone

\*[tests carried out via SGA research dept]



## LIGHT & MEDIUM MASONRY SAW

### CM42

The Clipper CM42 is a lightweight and portable masonry saw.

Wider and longer than most equivalent machines on the market, its characteristics enable the cut of a 60x60cm slab in 2 halves of 30cm.

Stronger frame, new folding feet system, improved conveyor cart bring key benefits to the user.

### CM401 MODULO

The CM401 uses an aluminium frame, very rigid and absolutely waterproof. The pivoting legs ensure complete site portability.

The "stay level" blade guard and heavy duty conveyor cart provide easy cutting.



MODEL	CM42 30-1-230V	CM42 30-1-110V	CM42 30-1-230V
Item No	701846 47989*	701846 47990	701846 47620 **
EAN 13 Code	5450248 563617	5450248 572077	5450248 563617

ACCESSORIES	Item No	EAN 13 Code
Tilting Table	5101 09260	5450248 578598



TECHNICAL DATA			
Supply Voltage	230V 1~	110V 1~	230V 1~
Power kW	2.2kW (3 Hp)	2.2kW (3 Hp)	2.2kW (3 Hp)
Fuse/Generator	16A / 6 kVA	16A / 6 kVA	16A / 6 kVA
Max. blade x bore	Ø 400 x 25.4mm	Ø 400 x 25.4mm	Ø 400 x 25.4mm
Tilting cart	optional tilting table	optional tilting table	optional tilting table
Max. cutting depth at 90°/45°	135mm / 94mm	135mm / 94mm	135mm / 94mm
Max. cutting length	780mm	780mm	780mm
Max. material height	200mm	200mm	200mm
Table size	500 x 540mm	500 x 540mm	500 x 540mm
Tool speed RPM	2800 min <sup>-1</sup>	2800 min <sup>-1</sup>	2800 min <sup>-1</sup>
Hand Arm Vibrations	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>
Sound power / pressure level	92 dB (A) / 80 dB (A)	92 dB (A) / 80 dB (A)	92 dB (A) / 80 dB (A)
Dimensions (LxWxH)	1187 x 620 x 1360mm	1187 x 620 x 1360mm	1187 x 620 x 1360mm
Dimensions (LxWxH) (folded legs)	1187 x 620 x 740mm	1187 x 620 x 740mm	1187 x 620 x 740mm
Weight	90kg	90kg	90kg

\* Availability on request \*\* Supplied with European plug

MODELS	CM401 600 1.30.1	CM401 600 1.40.3	CM401 600 1.60.P
Item No	701846 26994**	701846 27004**	701846 27017
EAN 13 Code	5450248 371847	5450248 371854	5450248 371755

TECHNICAL DATA			
Power Source/Motor Type	Electric	Electric	Petrol / HONDA GX200
Supply Voltage/Power kW (Hp)	230V 1~/ 2.2kW (3Hp)	400V 3~/ 3kW (4Hp)	4.8kW (6.5Hp)
Fuse/Generator	16A / 6 kVA	16A / 8 kVA	-
Max. blade x bore	Ø 400 x 25.4mm	Ø 400 x 25.4mm	Ø 400 x 25.4mm
Max. cutting depth	150mm	150mm	150mm
Max. cutting length	600mm	600mm	600mm
Max. material height	280mm	280mm	280mm
Table size	500 x 600mm	500 x 600mm	500 x 600mm
Tool speed RPM	2 700 min <sup>-1</sup>	2 000 min <sup>-1</sup>	2 650 min <sup>-1</sup>
Hand Arm Vibrations	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>
Sound power / pressure level	94 dB (A) / 81 dB (A)	94 dB (A) / 81 dB (A)	105 dB (A) / 93 dB (A)
Length	1380mm	1380mm	1380mm
Width	660mm	660mm	660mm
Height/Height folded legs	1510mm / 920mm	1510mm / 920mm	1585mm / 995mm
Weight	113kg	115kg	118kg

\*\* Supplied with European plug

## LARGE MASONRY SAW

### CM501

The CLIPPER CM501 is a highly performing and robust masonry saw with a modern design.



MODELS	CM501 3-20-1 115V	CM501 3.55.3	CM501 3.55.3 D.V.	CM501 3.60.P	CM501 5.55.3
Item No	701846 28235	701846 27018	701846 28233**	701846 27020	701846 28232*
EAN 13 Code	5450248 392125	5450248 371762	5450248 392101	5450248 371779	5450248 392095

TECHNICAL DATA					
Power source/motor type	Electric	Electric	Electric	Petrol/HONDA GX200	Electric
Supply voltage/Power kW (HP)	115V / 2.2kW	400V / 4kW (5.5 HP)	230-400V~3 / 4kW (5.5 HP)	4.8kW (6.5Hp)	400V / 4kW (5.5 HP)
Fuse/Generator	28A / 6.6kVA	16A / 10kVA	16A / 10kVA	-	16A / 10kVA
Max. blade x bore	Ø 500x25.4mm	Ø 500x25.4mm	Ø 500x25.4mm	Ø 500 x 25.4mm	Ø 600x25.4mm
Max. cutting depth	195mm	195mm	195mm	195mm	245mm
Max. cutting length	500mm	500mm	500mm	500mm	500mm
Max. material height	355mm	355mm	355mm	355mm	355mm
Table size	580 x 420mm	580 x 420mm	580 x 420mm	580 x 420mm	580 x 420mm
Tool speed RPM	1900 min <sup>-1</sup>	1900 min <sup>-1</sup>	1900 min <sup>-1</sup>	2200 min <sup>-1</sup>	1900 min <sup>-1</sup>
Hand Arm Vibrations (hourly limit)	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>
Sound power / pressure level	97dB(A) / 81dB(A)	97dB(A) / 81dB(A)	97dB(A) / 81dB(A)	106dB(A) / 93dB(A)	97dB(A) / 81dB(A)
Dimensions (LxWxH)mm	1480x610x1550	1480x610x1550	1480x610x1550	1480x610x1700	1480x610x1550
Weight	165 kg	165 kg	163 kg	165 kg	168 kg

\* Availability on request \*\* Supplied with European plug

Machines delivered without diamond blade



## LIGHT FLOOR SAWS

### CS401

The Clipper CS401 is a compact and economic floor saw.

A single platform with 2 motors and maximum blade diameter, to provide the best solution for the needs of the user. The wide frame and low centre of gravity improve the user's control of the machine and reduces vibration.

Suitable for dry or wet cutting of all types of floors.

### CS451

The CS451 is a new generation CLIPPER floor saw designed to combine robustness, functionality and vibration level reduced by 40% for best user's satisfaction.



MODEL	CS401 P9 400mm	CS401 P13 450mm
Item No	701846 47624	701846 47623
EAN 13 Code	5450248 563631	5450248 563624

TECHNICAL DATA		
Power source	Petrol	Petrol
Motor type	Honda GX270	Honda GX390 Cycl.
Power kW (Hp)	6.6kW (9 HP)	9.6kW (13 HP)
Max. blade x bore	Ø 400x25.4	Ø 450x25.4
Max. cutting depth	145mm	170mm
Water tank capacity	20 L	20 L
Tool speed RPM	2600 min <sup>-1</sup>	2600 min <sup>-1</sup>
Starter	Recoil	Recoil
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	3.75 m/s <sup>2</sup>	4.13 m/s <sup>2</sup>
Sound power level	100 dB(A)	100 dB(A)
Sound pressure level	84 dB(A)	86 dB(A)
Dimensions (LxWxH)	1180 x 650 x 1000	1180 x 650 x 1000
Weight	93kg	99kg

MODELS	CS451 P13	CS451 D7
Item No	701846 28433	701846 29089
EAN 13 Code	5450248 397601	5450248 399049

SC451 ACCESSORIES	Item No	EAN 13 Code
Kit for twin blade mounting	3103 57954	5450248 446507

TECHNICAL DATA		
Power source	Petrol	Diesel
Motor type	HONDA GX390 Cyclonic	HATZ 1B30
Power kW (Hp)	9.6kW (13Hp)	5kW (7Hp)
Max. blade x bore	Ø 450 x 25.4mm	Ø 450 x 25.4mm
Max. cutting depth	170mm	170mm
Water tank capacity	25 L	25 L
Tool speed RPM	2573 min <sup>-1</sup>	2573 min <sup>-1</sup>
Starter	Recoil	Recoil
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	2.8 m/s <sup>2</sup>	4.7 m/s <sup>2</sup>
Sound power / pressure level	105 dB (A) / 88 dB (A)	110 dB (A) / 91 dB (A)
Dimensions (LxWxH)	1180 x 538 x 1040mm	1180 x 538 x 1040mm
Weight	112kg	120kg

## POWER FLOATS

### CT901

The CT901 is a medium weight machine, and the most popular power float with users. It covers a wide range of applications.

### MTA36

The MTA36 is a medium weight machine equipped with a hydraulic blade pitch control.



MODEL	CT901 MP
Item No	701846 29948
EAN 13 Code	5450248 440499

TECHNICAL DATA	
Included tools	Finishing blades
Power Source	Petrol
Power kW (Hp)	4.8kW (6.5Hp)
Motor Type	HONDA GX200
Supply Voltage	-
Fuse / Generator	-
Blade rotation diameter (clockwise)	900mm
Guard ring diameter	950mm
Distance to wall	25mm
Pitch control	Mechanical
Hand Arm Vibrations	< 2.5 m/s <sup>2</sup>
Sound power / pressure level	94dB(A)/85dB(A)
Dimensions (LxWxH)	1980 x 950 x 1060mm
Weight (without pans)	75kg

MODELS	MTA36 P5H	MTA36.30.3
Item No	701846 14008	701846 13921* **
EAN 13 Code	5450248 145783	5450248 142539

TECHNICAL DATA		
Power Source	Petrol	Electric
Power kW (Hp)	4.8kW (6.5Hp)	2.2kW (3Hp)
Motor Type	HONDA GX200 QX	-
Supply Voltage	-	400V 3~
Fuse / Generator	-	10A /6kVA
Blade rotation diameter (clockwise)	865mm	865mm
Guard ring diameter	915mm	915mm
Distance to wall	25mm	25mm
Pitch control	Hydraulic	Hydraulic
Hand Arm Vibrations	4 m/s <sup>2</sup>	4 m/s <sup>2</sup>
Sound power / pressure level	94dB(A)/85dB(A)	92dB(A)/82dB(A)
Dimensions (LxWxH)	1790 x 915 x 790mm	1790 x 915 x 790mm
Weight (without pans)	80kg	85kg

\* Availability on request \*\* Supplied with European plug



Established in Europe in 1998, Auger Torque has created a new standard in the Earth Drill and Trencher Attachment market by putting you, the customer, at the centre of everything we do.

In 2005, after surveying the market carefully, we released a new range of innovative products, designed to provide unrivalled reliability and cost-effective operation.

Auger Torque is proud to have become part of the Kinshofer Group of companies in 2015. With the backing of the German attachments giant Auger Torque has since enjoyed even greater growth in all areas of its business operations.

Now with five manufacturing bases worldwide, we are satisfying the demand for high-quality products in over seventy countries on all seven continents.

Auger Torque is a manufacturing company with global distribution and dealer networks.

## Quality

Understanding that every day counts on a busy site and that machinery must perform faultlessly for long periods of time, we take care to make sure our products are extremely reliable. Down-time through lost or damaged wear parts can be expensive, so ours feature many innovative ideas that are designed to endure tough environments without failure or loss.

We are also aware that machinery is often subject to overwork and abuse, sometimes in very extreme environments, so all components are engineered to withstand forces many times more than their quoted capability giving you the confidence that every product we supply will perform tirelessly for you, time and time again.

Our research and development centre at our UK based factory in Cheltenham, Gloucestershire puts all of our product ranges through a gruelling test procedure to ensure our exacting standards are maintained.

We work closely with manufacturers of the parent machines, which allows our engineering design team to develop new products in tandem with their new model releases. This approach has resulted in a range of Earth Drills which can be matched exactly to your Excavator, Backhoe, Skidsteer Loader, Mini Loader, Truck Crane or Telehandler by weight and capability, therefore ensuring that you experience many years of reliable service.

By guaranteeing world-class reliability, avoiding down-time and expensive repairs, you can put your trust in our high quality range of earthmoving attachments.

## EARTH DRILLS

Auger Torque Earth Drills are built to the most exacting standards using only the highest quality materials and the latest manufacturing techniques available. A range of Earth Drills can be matched exactly to your Excavator, Backhoe, Skidsteer Loader, Mini Loader, Truck Crane or Telehandler by weight and capability. From the smallest fencing job through to major piling works you can be sure that your Auger Torque Earth Drill will deliver, time and time again.



Model	Machine (T)	Torque (Nm)	Oil Pressure (Bar)	Oil Flow (lpm)	Speed (rpm)	Output Shaft	Auger / Dia (mm)	Max Drilling Depth (m)
<b>Earth Drills to suit Mini Excavators 0.75 - 5 Tonnes</b>								
1200	0.75-1	189-1164	30-185	15-32	38-81	50R / STIHL	S2 / 100-300	0.9
X1500	1-2	511-1496	70-205	20-45	44-98	R	S4 / 100-400	2
X2000	1-2.5	639-2190	70-240	25-57	43-99		S4 / 100-450	2.2
X2500	1.5-3	830-2847		27-65	36-87		S4 / 100-500	2.5
3000MAX	2-4	959-2877	80-240	27-75	36-100		S4 / 100-600	3
3500MAX	2.5-4.5	1205-3614		40-85	42-90		S4 / 100-750	3
4500MAX	3-5	1500-4499		50-95	43-81		S4 / 100-900	4
<b>Earth Drills to suit Excavators 4.5 - 8 Tonnes and Backhoes</b>								
5500MAX	Excavators 4.5-6T	1685-5477	80-260	40-115	30-87	75S	150-750	4
7000MAX	Excavators 5-7T Backhoes	2133-6931	80-260	60-135	36-81	75S	150-900	5
8000MAX	Excavators 6-8T Backhoes	2717-8152	80-240	70-150	33-70		150-1200	6
<b>Earth Drills to suit Excavators 10 - 15 Tonnes and Backhoes</b>								
10000	Backhoes	3281-10662	80-260	70-150	27-58	75S	S6 / 150-900	6.5
12000MAX	Excavators 8-13T	3998-11995	80-240	80-170	20-54		S6 / 150-1000	7
15000MAX	Excavators 10-15T	5024-15071	80-240		20-43		S6 / 150-1200	7.5
<b>Earth Drills to suit Excavators 13 - 22 Tonnes</b>								
20000MAX	13-20	13043-19564	160-240	80-170	16-33	75S	S6 / 150-1200	8.5
25000MAX	15-22	16503-24755			12-26		S6 / 150-1500	9
<b>Earth Drills to suit Excavators 20 - 45 Tonnes</b>								
35000MAX	20-45	20510-35323	180-310	80-225	11-31	110S	PA / 300-1500	10.5
42000MAX		24612-42387			9-26		PA / 300-1800	11.5
50000MAX		21-45	23758-47515	160-320	100-280		11-30	PA / 300-2400

Output Shaft Options: 50R = 50mm Round R = 65mm Round 75S = 75mm Square 110S = 110mm Square



# AUGERS

All Auger Torque Augers are built from high grade steel and incorporate many features that will allow you to work more efficiently. The Augers use Auger Torque Earth Teeth and Pilots which incorporate Auger Torques unique Shock Lock™ Tooth Locking System guaranteeing that you will never lose your auger teeth when reversing your auger.

Augers are available to suit all major standard hubs on the market, from the S4 range offering 100mm to 900mm diameters, up to the PA range offering 150mm to 1500mm diameters.



Auger Diameter (mm)	Flight Length (mm)	Overall Length (mm)	Hub Options	Wear Parts	Fixed Extensions (mm)	Telescopic Extensions (mm)
<b>S4 Augers</b>						
100	950	1200	R	Earth / Tungsten / Extra Dig	500 / 1000	-
150	780					
200	750					
225						
250	700					
300						
350	675					
400	625					
450						
500						
600	600					
750	525					
800						
900						
<b>S5 Augers</b>						
150	1080	1500	25H / 75S	Earth / Tungsten / Rock	1000 / 1500 / 2000	1500 / 2000
200	977					
225	975					
250	965					
300	900					

Auger Diameter (mm)	Flight Length (mm)	Overall Length (mm)	Hub Options	Wear Parts	Fixed Extensions (mm)	Telescopic Extensions (mm)
<b>S5 Augers</b>						
350	900	1500	75S	Earth / Tungsten / Rock	1000 / 1500 / 2000	1500 / 2000
400	875					
450	750					
500						
600						
750						
800	525					
900						
1000						
1200						
<b>S6 Augers</b>						
150	1320	1880	75S	Earth / Tungsten / Rock	1500 / 2000 / 2500 / 3000	1500 / 2000
200	1200					
225	1203					
250	1225					
300	1200					
350	1125					
400	1000					
450						
500						
600	900					
750	875					
800						
900						
1000						
1200	700					
1500	600					
<b>PA Augers</b>						
300	1558	2.3 / 3.3	110S	Earth / Rock	2000 / 3000	2000 / 3000
350	1527					
400	1446					
450						
500						
600	1443					
750	1321					
800						
900						
1000						
1200	971					
1500	908					
	750					

Output Shaft Options: 50R = 50mm Round R = 65mm Round 75S = 75mm Square 110S = 110mm Square

## TRENCHERS

Auger Torque Trenchers are tough and versatile units, available for a wide range of skidsteers, mini loaders, backhoes and excavators up to 10 tonnes in weight. The range of Trenchers cover depths from 0.6 to 1.5 meters and widths up to 350mm. Chains are available in a number of different teeth configurations for trenching in soft ground, mixed grounds and even permafrost. Pulling the trencher in reverse at a steady pace on level ground, the Trencher will cut at the optimal cutting angle whilst maintaining the correct depth. Spoil is piled neatly to the side of the trench by the integral auger.



Model	Machine	Cutting Width (mm)	Cutting Depth (mm)	Chain Types	Oil Pressure (Bar)	Oil Flow (lpm)
<b>Trenchers to suit Loaders &amp; Excavators 2.5 - 5 Tonnes</b>						
MT600	Excavators 2.5-4.5T Loaders	100-300	300 / 450 / 600	Earth / Tungsten / Combination	160-240	35-65
MT900	Excavators 3-5T Loaders		600 / 750 / 900		180-240	45-80
<b>Trenchers to suit Loaders &amp; Excavators 5 - 10 Tonnes</b>						
XHT900	Excavators 5-7.5T Skidsteer Loaders	150-300	600 / 750 / 900	Earth / Tungsten / Combination	180-250	60-95
XHD1200			800 / 1000 / 1200			70-115
XHD1500	Excavators 5-10T Skidsteer Loaders	150-200	1000 / 1250 / 1500			80-135

## STUMP PLANERS

The Auger Torque Stump Planer is the quick and easy attachment to any Earth Drill for the effective, clean removal of tree stumps of any size.

If you need to clear ground in preparation of works or earth drilling there is no better way to remove the remains of trees.

Quick and easy with minimal mess compared to traditional stump grinding makes this a must-have product for those working in ground preparation and woodland maintenance.



Model	Earth Drill compatibility	Diameter (mm)	Length (mm)	Hub Options
<b>Stump Planer to suit Mini Excavators 1 - 5 Tonnes and Skidsteer Loaders</b>				
SP250	X2500 - 4500MAX	250	635	R
<b>Stump Planer to suit Mini Excavators 4.5 - 8 Tonnes and Skidsteer Loaders</b>				
SP350	5000 - 8000MAX	350	675	75S

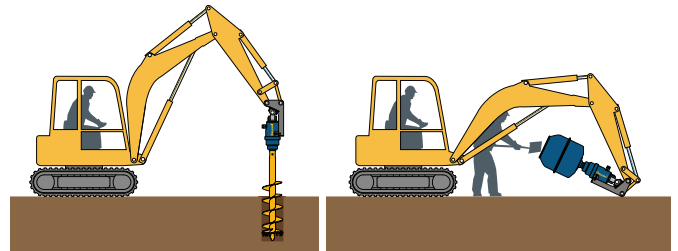
Output Shaft Options: R = 65mm Round 75S = 75mm Square



## MIXER BOWL

Auger Torque Mixer Bowls attach quickly and easily to an Earth Drill. Ideal for fencing contractors, and with the aid of a Mixer Cradle Hitch, an auger can be quickly removed and the Mixer Bowl attached and locked in place with the standard Auger Pin. After the concrete has been laid, the auger can be replaced for the next post.

When used on Skidsteer machines, the Mixer Bowl requires the use of a mixer cradle that is mounted easily to any of our skid steer loader frames.



Model	Earth Drill Compatibility	Bowl Capacity (lt)	Bowl Diameter (mm)	Bowl Depth
<b>Mixer Bowl to suit Excavators 1 - 8 Tonnes, Mini Loaders and Skid Steers</b>				
CM140	X1500-8000MAX	180	724	690

## SWEEPER BROOM

Auger Torque brooms are made from high grade steel and are precision engineered. Easy adjustment, simple brush replacement, high quality hydraulic motors and low maintenance design are just a few of the features that set our brooms apart from the rest. Available to suit Mini Loaders, Skid Steers, Backhoes, and Telehandlers.



<b>Sweeper Bowl to suit Mini Loaders, Skid Steers, Backhoes and Telehandlers</b>						
Model	Sweep Width (mm)	Brush Diameter (mm)	Unit Width (mm)	Unit Height (mm)	Unit Depth (mm)	Optional
1800	1800	600	2183	627	1339	Water Dust Suppression

## HEDGE TRIMMER

The Auger Torque Hedge Trimmer is the perfect addition for excavators (1.5T - 8T) and Skidsteer Loaders, and offers a variety of motor sizes to suit your application. The newly designed mounting frame allows you to quickly switch the Hedge Trimmer between the left and right hand side of the parent machine. When fitted to a Skid Steer, it can also be used to cut grass and brush. Attaching the optional tooth extension provides a full 2.5m cutting length. This is sure to make trimming more precise, efficient and will provide yet another way to expand the versatility of existing machines.



### Hedge Trimmer to suit Excavators 1.5 - 8 Tonnes

Model	Cutting Length (mm)	Hitch	Hoses
HC150	1500mm	Excavator Mounted	Included
EXTENSION	1000	n/a	n/a

## LOG SPLITTER

It's quick and efficient. Augertorque's new Log Splitter for processing and recycling logs. The compact and robust Log Splitter makes light work of processing those fallen trees into manageable pieces.

As the Log Splitter rotates, the self-guiding threaded body engages with the timber and draws the splitter into the log. The conical shape quickly works its way through the log, splitting the log in two. For larger logs, the Splitter can be repositioned to continue the split along the whole length of the log.



### Log Splitter to suit Excavators 1-5 Tonnes and Skid Steers

Model	Earth Drill Compatibility	Sweep Width (mm)	Diameter (mm)	Hub Options (mm)	Unit Weight (kg)
LS180	X2000 - 4500MAX	300	180	65 Round	14.6

**WELCOME TO WINGET, THE HOME OF QUALITY  
CONSTRUCTION EQUIPMENT  
CONCRETE MIXERS, SITE DUMPERS AND  
ASSOCIATED PRODUCTS BY WINGET**



WINGET is more than just a well-known name in the Construction Industry - it is the brand that is synonymous with quality.

For more than 100 years we have set high standards in the manufacture of construction equipment. Our concrete mixer and site dumper ranges utilise heavy duty, high quality components and our UK factory employs strict control of build quality. This results in market leading reliability that minimises expensive downtime and durability that ensures many years of hard working service.

These values, when combined with 'second to none' after sales service and parts availability have led to a happy and loyal customer base that appreciates the benefits of our long-term value for money ethos.

## Tracked Power Dumpers

- Tough and versatile, Winget Tracked Dumpers are ideal for working in restricted areas or those with restricted access.
- Often used in partnership with a micro or mini excavator moving spoil from foundations or landscaping.
- Capacity of 4 /5 wheelbarrow loads increases productivity.
- Available with high lift or standard lift skips
- Winget Tracked Dumpers are CE Marked
- WINGET is an ISO 9001 accredited company
- Efficient aftersales spares service through WINGET'S Worldwide Distributor Network



Model		TD500HL (High Lift)	TD650 (Low Discharge)
Machine weight	kg	317	249
Engine	Model	Honda GX160	Honda GX160
	Type	5.5hp, 4 stroke	5.5hp, 4 stroke
	Noise Levels	LPA / LWA	85 / 101
	ISO9249	kW/rpm	29.4/2250
	Vibration at handlebars		11m/s@3600 rpm
Length	mm	1960	1960
Height	mm	1130	1130
Height max - skip tipped	mm	2460	2460
Machine width	mm	680	680
Hydraulic pressure	psi	2500	2500
Max Payload	kg	500	650



## Hand Fed Tilting Drum Mixers

# WINGET

Hand-fed concrete mixers from 100 litres to 200 litres mixed batch output

- All models capable of mixing at a rate of 12 batches per hour giving production output rates ranging from 1.2 to 2.4 cubic metres per hour
- Robustly engineered with fully enclosed drive-lines, WINGET mixers provide safe, reliable performance and long service life
- Positive, heavy duty drive-line using roller chain, (belt drive on electric start) bevel wheel and pinion.
- Highly efficient, two piece heavy gauge, spun steel drum
- Multi-position lockable drum
- Fast Tow trailer models available with adjustable towbar, pneumatic tyres, mudguards and independent suspension
- Available with Yanmar electric start diesel engine



Model		100T	100TFT	150T	150TFT	175T	175TFT	200T
Machine weight	kg	370	395	410	482	460	500	600
Engine		Yanmar L48 Electric start	Yanmar L48 Electric start	Yanmar L48 Electric start	Yanmar L48 Electric start	Yanmar L48 Electric start	Yanmar L48 Electric start	Yanmar L48 Electric start
Length	mm	1550	1720 / 2370	1650	1910 / 2480	1700	2060	1700
Width	mm	820	1240	930	1320	930	1770	1350
Height	mm	1570	1630	1710	1770	1770	1340	1770
Loading Height	mm	1000	1060	1100	1140	1110	1180	1110
Discharge Height	mm	540	600	570	610	520	590	520
<b>CAPACITIES</b>								
Mixed Batch Output	Litres	100	100	150	150	175	175	200
Unmixed Capacity	Litres	150	150	200	200	240	240	285
Gross Drum Volume	Litres	263	263	362	362	377	377	485
Drum Speed	rpm	22	22	22	22	22	22	22
Production Rate	m3 / hr	1.2	1.2	1.8	1.8	2.1	2.1	2.4



## Reversing Drum Mechanically Fed Mixers

# WINGET

- Heavy duty, reversing drum, mechanically fed concrete mixer manufactured to the highest specification
- High capacity mixers capable of producing up to 24 batches per hour. 300R-7.2 cubic metres, 400R-9.6 cubic metres per hour, 500R 12 cubic metres per hour
- Standard machine includes water tank with automatic filling and measured volume discharge, or flowmeter.
- Hydraulically operated feed hopper Choice of hand/ electric start, Lister Petter air cooled diesel engine or 3-phase electric motor
- Towable chassis with four pneumatic tyred wheels.
- Jacking system allows wheel removal for storage during long term use
- WINGET mixers for sale in the EC are CE marked
- WINGET is an ISO 9001 accredited company
- Efficient after sales spares service through WINGET'S Worldwide Distributor Network.
- Mixers shown below include optional batchweigher.



Model		300R Diesel	300R Electric	400R Diesel	400R Electric	500R Diesel	500R Electric
Machine weight	kg	2325	2325	2420	2420	2610	2610
Engine / Power Unit		Lister Petter TR2 Hand Start 17.6hp	Electric Motor 415v 3 phase, 50hz, 10hp	Lister Petter TR2 Hand Start 17.6hp	Electric Motor 415v 3 phase, 50hz, 15hp	Lister Petter TR3 Hand Start 27hp	Electric Motor 415v 3 phase, 50hz, 20hp
Length (hopper down)	m	3.33	3.33	3.71	3.71	4.14	4.14
Width	m	1.82	1.82	1.82	1.82	1.82	1.82
Height to top of water tank	m	3.14	3.14	3.14	3.14	3.14	3.14
Height to top of dragline feeder jib	m	4.88	4.88	4.88	4.88	4.88	4.88
Height - hopper raised	m	3.77	3.77	3.77	3.77	3.77	3.77
Loading Height	m	0.52	0.52m	0.52	0.52	0.52	0.52
Discharge Height	m	1.37	1.37	1.37	1.37	1.37	1.37
<b>CAPACITIES</b>							
Mixed Batch Output	Litres	300	300	400	400	500	500
Unmixed Capacity	Litres	400	400	600	600	750	750
Gross Drum Volume	Litres	1600	1600	2100	2100	3200	3200
Drum Speed	rpm	14	14	14	14	14	14
Production Rate	m <sup>3</sup> / hr	7.2	7.2	9.6	9.6	12	12
Dragline Shovel Capacity	hr	140	140	140	140	140	140



**TRELAWNY**<sup>TM</sup>  
SURFACE PREPARATION TECHNOLOGY

Trelawny is an independent manufacturer of pneumatic tools and surface preparation equipment operating from its headquarters in the engineering heart of the UK in Leamington Spa. For over 60 years Trelawny has been offering a range of equipment for the preparation of concrete, steel and stone in industries which include:

- Construction
- Marine and offshore (oil and gas)
- Floor preparation
- Nuclear decommissioning (remediation)
- Utility contracting
- Restoration, refurbishment and demolition

Our products are sold worldwide through a global network of quality approved stockists and distributors. The latest techniques of low vibration equipment and dust free working are offered to ensure that job sites are maintained to the highest professional standard.

Our aim is to continue to develop our product offering to satisfy the demand and needs of our customers. With this, we continually seek quality stockists and distributors worldwide who are interested to work with a reputable growing brand and offer the service, back up and know-how our customers require.

## Heavy Duty Scabblers

### SH1 and VL SH1

The SH1 and VL SH1 single head scabblers are the ideal tools for roughing and preparing concrete in small areas such as concrete joints.

### SH3

The SH3 tripple head scabblers are the ideal tools for roughing and preparing concrete in larger areas such as walls and columns.

### VL LRS55 Pole Scabbler

The VL LRS55 is a powerful long reach scabbler for vertically preparing Hard to reach areas. At 1.4 metres in length it allows scabbling below the reinforcement bar. The powerful blow quickly removes concrete without damaging the underlying substrate.



**TRELAWNY**<sup>TM</sup>  
SURFACE PREPARATION TECHNOLOGY

Model		SH1 Hammer Head	SH1 Cruciform Head	VL SH1 Hammer Head	VL SH1 Cruciform Head	SH1 with shroud Cruciform Head
Weight	kg	2.6	2.6	2.5	2.5	2.6
Length	mm	485	485	465	465	485
Working Height	mm	160	160	160	160	160
Blows per minute	bpm	2400	2400	2900	2900	2400
Air Consumption	lps-cfm	3-6.5	3-6.5	5.6-11.9	5.6-11.9	3-6.5
Noise Level	db(A)	94	94	91	91	94
Vibration Level	Aeg m/s <sup>2</sup>	7.0	7.0	4.5	4.5	7.0
Part Number		151.5250	151.5200	196.5105	196.5100	139.5192

Model		SH3 side handle hammer head	SH3 side handle cruciform head	SH3 with shroud cruciform head/ short handle	SH3 with shroud cruciform head
Weight	kg	5.2	5.2	5.2	5.2
Length	mm	485	485	485	485
Working Height	mm	160	160	160	160
Blows per minute	bpm	2400 x3	2400 x3	2400 x3	2400 x3
Air Consumption	lps-cfm	7.5-15.9	7.5-15.9	7.5-15.9	7.5-15.9
Noise Level	db(A)	98	98	98	98
Vibration Level	Aeg m/s <sup>2</sup>	8.7	8.7	8.7	8.7
Part Number		153.5250	153.5200	139.5390	139.5392

Model		VL LRS55 5 point Scabbler head	SH1 9 point Scabbler head
Weight	kg	21.5	21.5
Length	mm	1270	1270
Blows per minute	bpm	1300	1300
Air Consumption	lps-cfm	11.6-24.6	11.6-24.6
Vibration Level	Aeg m/s <sup>2</sup>	4.2	4.2
Part Number		150.5320	150.5321

## Concrete Floor Scabblers

### MHS11

The MHS11 introduces a new concept in pneumatic floor scabblers. Using smaller heads with a 70% increase in BPM (Blows Per Minute) and a 30% reduction in air consumption, the MHS11 maximises productivity, efficiency, value and ergonomics, without compromise. Its is the perfect machine for fast removal of laitance, level reduction and profiling for new concrete and thick screeds and sealants. Production rates in excess 30 m<sup>2</sup> per hour.

### MH5 and MH9

The MH5 is the heavy duty floor Scabblers of choice for fast Reduction of levels. 5 50mm (2") carbide tipped heads give 1300 powerful blows each producing a heavy key for application of fresh concrete and overlays. Integrated TVS® vacuum shroud allows the connection of an industrial dust collector for collecting nuisance and hazardous dust. Production rates in excess of 40 m<sup>2</sup> per hour.

**TRELAWNY**<sup>TM</sup>  
SURFACE PREPARATION TECHNOLOGY



Model		MHS11	MHS11	MHS11	MHS11	MHS11	MHS11
		1 piece bush piston	1 piece bush piston with shroud	2 piece bush piston	2 piece bush piston cruciform c/w shroud	2 piece bush piston	2 piece bush piston cruciform c/w shroud
Weight	kg	70	72	70	72	70	72
Length	mm	340	340	340	340	340	340
Height	mm	1290	1290	1290	1290	1290	1290
Width	mm	285	285	285	285	285	285
Cutting Width	mm	250	250	250	250	250	250
Blows per minute	bpm	2200 x11	2200 x11	2200 x11	2200 x11	2200 x11	2200 x11
Air Consumption	lps-cfm	26-55	26-55	26-55	26-55	26-55	26-55
Noise Level	db(A)	97	97	97	97	97	97
Vibration Level	Aeg m/s <sup>2</sup>	4.96	4.96	4.96	4.96	4.96	4.96
Part Number		159.6050	159.6051	159.6200	159.6201	159.6210	159.6211

Model		MHS5		MHS9		
Weight	kg	114		114		
Length	mm	110		110		
Height	mm	970		970		
Width	mm	720		720		
Cutting Width	mm	290		290		
Blows per minute	bpm	1300 x5		1300 x9		
Air Consumption	lps-cfm	38-80		38-80		
Noise Level	db(A)	94.7		94.7		
Vibration Level	Aeg m/s <sup>2</sup>	16.5		16.5		
Part Number		159.5050		159.5075		



## Needle/Chisel Scalers

Outstanding performance and safety through efficiency was the principle objective behind the design of the VL range of scaling tools.

Trelawny's Vibro Lo™ range of vibration reduced needle and chisel scalers are virtually unrivalled in terms of performance, reliability and reduced levels of harmful vibration.

The design features a unique vibration reduction system lowering vibration levels by 8 times that of standard needle scalers.

### VL219E

Latest addition to the descaling range, The VL219E is a powerful, lightweight electric tool that offers real performance.



VL303



VL219E

Model	VL223 Needle	VL223 Chisel	VL203 Needle	VL203 Chisel	VL303 Needle	VL303 Chisel
Type	In-line	In-line	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip
Needle Quantity	19 x 3mm	-	19 x 3mm	-	28 x 3mm	-
Weight kg	2.35	2.95	2.7	3.2	3.51	4.25
Blows per minute bpm	2400	2400	2400	2400	2400	2400
Air Consumption lps-cfm	1.89-4	1.89-4	1.89-4	1.89-4	2.6-5.5	2.6-5.5
Air Inlet Size BSP	1/4	1/4	1/4	1/4	1/4	1/4
Noise Level db(A)	90.7	76.3	90.7	76.3	109.5	78.2
Vibration Level Aeg m/s <sup>2</sup>	2.56	3.69	2.75	3.33	2.3	3.7
Part Number	196.2103	196.2213	196.2003	196.2203	196.3003	196.3203

Model	VL219E Needle 110v	VL219E Needle 115v	VL219E Needle 230v	VL219E Kit 110v 50hz	VL219E Kit 115v 60hz	VL219E Kit 230v 50hz
Power Input w - v - Hz	650 - 110 - 50	650 - 115 - 60	650 - 230 - 50	650 - 110 - 50	650 - 115 - 60	650 - 230 - 50
Piston Stroke mm	20	20	20	20	20	20
Blows per minute bpm	3000	3000	3000	3000	3000	3000
Length mm	520	520	520	520	520	520
Width mm	210	210	210	210	210	210
Height mm	180	180	180	180	180	180
Weight kg	3.7	3.7	3.7	6.5	6.5	6.5
Part Number	196.6002	196.6016	196.6004	196.6102	196.6116	196.6104

**STIHL**®

The STIHL name has stood for revolutionary technology and innovative ideas ever since the firm was founded. Throughout our 85-plus year history that has made us the name for state-of-the-art engineering. The STIHL brand is known round the world today for quality and service. In more than 160 countries our products are helping people at work - and that has made us the world's leading chainsaw brand.

STIHL offers a wide range of products including chainsaws and pole pruners, KombiSystems, MultiSystems, brushcutters, hedge trimmers, blowers, sweepers, pressure washers, vacuum cleaners and cut-off saws and other construction equipment, as well as all the fuels, oils and accessories to keep them running at their best.

## Cordless Power System

Our cordless power system offers you simple convenience with great performance. The quiet, exhaust-free, battery power allows full freedom of movement while carrying out gardening tasks and ground maintenance and are long-lasting thanks to the latest battery technology. So feel the power of this flexible range, simply charge the battery, insert it into the machine and press the start button.

# STIHL®



## TSA 230 Cordless cut off saw

STIHL is proud to introduce the world's first 9" cordless cut off saw. Cutting neatly and swiftly up to 70mm deep, the TSA 230 is ideal for cutting roofing tiles, bricks, metal and paving blocks. It is particularly light at only 3.9 kg (without battery). Emission-free cordless technology benefits both the operator and environment whilst allowing the tool to be operated indoors and outdoors. The water connection and vacuum accessories ensure effective dust control when cutting. Supplied with an abrasive wheel for cutting steel.

Model		TSA 230
Battery technology		36V Lithium-Ion
Recommended battery		AP 300
Battery running time	AP 200 min <sup>1)</sup>	up to 12
Battery running time	AP 300 min <sup>1)</sup>	up to 18
Battery running time	AR 2000 min <sup>1)</sup>	up to 75
Battery running time	AR 3000 min <sup>1)</sup>	up to 95
Maximum cutting depth	mm	70
Cutting wheel	mm/in	230/9
Weight	kg <sup>2)</sup>	3.9
Vibration levels	left/right m/s <sup>2</sup> <sup>3)</sup>	3.5/3.5
Sound pressure level	dB(A) <sup>4)</sup>	103 <sup>5)</sup>
Sound power level	dB(A) <sup>4)</sup>	114 <sup>5)</sup>

<sup>1)</sup> Running times are approximate and may vary depending on application

<sup>2)</sup> Without battery and cutting wheel

<sup>3)</sup> (K) factor according to Dir. 2006/42/EC = 2m/s<sup>2</sup>

<sup>4)</sup> Power factor according to DIR2006/42/EC=2.5(dB(A))

<sup>5)</sup> Measurement with cutting wheels according to EN 60745-2-22

## Petrol Cut Off Saw

# STIHL®

Robust machines for demanding tasks: STIHL cut-off saws are specially designed for hard work on construction sites. The equipment has particularly long maintenance and servicing intervals and uncompromising reliability. Operating costs are therefore kept low and this plays an important part in increasing profitability. Other features include the outstanding cutting performance, standard long life filter system, sophisticated operating convenience and almost legendary easy servicing by STIHL. With the special STIHL accessories, such as the FW 20 cart, water tank or depth limiter, the powerful STIHL cut-off saws are optimally equipped for every job.



Model		TS 410	TS 420	TS480i	TS500i	TS 700	TS 800
Displacement	cm <sup>3</sup>	66.7	66.7	72.2	72.2	98.5	98.5
Power output	kW / bhp	3.2 / 4.4	3.2 / 4.4	3.9 / 5.3	3.9 / 5.3	5.0 / 6.8	5.0 / 6.8
Weight	kg	9.4 <sup>1)</sup>	9.6 <sup>1)</sup>	10 <sup>1)</sup>	10.2 <sup>1)</sup>	10.6 <sup>1)</sup>	13.0 <sup>1)</sup>
Sound pressure level	dB(A)	98	98	98	98	101	101
Sound power level	dB(A)	109	109	112	112	113	113
Vibration level	left/right m/s <sup>2</sup>	3.9/3.9	3.9/3.9	2.2/2.2	2.4/2.0	6.6/4.5	6.5/3.9
Cutting wheel	mm / in	300 / 12	350 / 14	300 / 12	350 / 14	350 / 14	400 / 16
Max cutting depth	mm	100	125	100	125	125	145
Total length	cm	67.5	72.5	68.2	73.0	65.0	89.0

<sup>1)</sup> Without cutting wheel



# Chainsaws and Telescopic Pole Pruners



STIHL chainsaws create international standards: they combine innovative technology, high performance, optimum ergonomics and low weight. Accordingly, through a process of continual research and development our chainsaws have evolved into a range of specialist saws to meet every application, including: work in your own garden, in agricultural and forestry cultivation or in orchard and plantation cultivation, with power ratings from 1.2 kW to 6.4 kW (1.6 HP to 8.6 HP).



There are many good reasons for choosing a compact chainsaw: advanced technology and safety features based on those of the professional saws, easy handling and an ergonomic design for working without tiring. STIHL compact saws are ideal for thinning shrubs and bushes and small trees, as well as for cutting firewood. These models are available as basic versions or comfort models (C), Chain Quick Tensioning (B) and ErgoStart (E) for jerk free starting.

Model		MS 170	MS 171	MS 180	MS 181	MS 181 C-BE	MS 211	MS 211 C-BE
Displacement	cm <sup>3</sup>	30.1	31.8	31.8	31.8	31.8	35.2	35.2
Power output	kW / bhp	1.2 / 1.6	1.3 / 1.8	1.4 / 1.9	1.5 / 2	1.5 / 2	1.7 / 2.3	1.7 / 2.3
Weight	kg	4.1 <sup>1)</sup>	4.3 <sup>1)</sup>	4.1 <sup>1)</sup>	4.3 <sup>1)</sup>	4.6 <sup>1)</sup>	4.3 <sup>1)</sup>	4.6 <sup>1)</sup>
Bar length options	Inches	12	12, 14	14, 16	12, 14, 16	12, 14, 16	14, 16	14, 16

Model		MS 211 C-BE with Picco Duro	MS 150 C-E	MS 193 C-E	MS 231	MS 231 C-BE	MS 251	MS 251 C-BE
Displacement	cm <sup>3</sup>	35.2	23.6	30.1	42.6	42.6	45.6	45.6
Power output	kW / bhp	1.7 / 2.3	1.0 / 1.3	1.3 / 1.8	2.0 / 2.7	2.0 / 2.7	2.2 / 3	2.2 / 3
Weight	kg	4.6 <sup>1)</sup>	2.8 <sup>1)</sup>	3.6 <sup>1)</sup>	4.8 <sup>1)</sup>	5.1 <sup>1)</sup>	4.8 <sup>1)</sup>	5.1 <sup>1)</sup>
Bar length	Inches	14, 16	10, 12	14, 16	14, 16	14, 16	14, 16, 18	14, 16, 18

<sup>1)</sup> Without fuel, without bar and chain

## Grass Trimmers, Brushcutters and Clearing Saws

STIHL grass trimmers, brushcutters and clearing saws quickly tame long grass and undergrowth. The machines can be fitted with the appropriate cutting tool for mowing small areas of grass to thinning out overgrown thickets. The models with the STIHL 4-MIX engine produce significantly less exhaust gases than conventional two-stroke engines, giving you increased fuel efficiency and causing less damage to the environment.

The handy lightweight STIHL grass trimmers and brushcutters add the finishing touches in garden care or landscape maintenance. They are the ideal complement to motor mowers and are used wherever the work of the mower needs finishing. Small areas of grass can also be mowed quickly with these machines.



Model		FS 38	FS 40	FS 50 C-E	FS 55 R
Displacement	cm <sup>3</sup>	27.2	27.2	27.2	27.2
Power output	kW / bhp	0.65 / 0.9	0.7 / 1.0	0.8 / 1.1	0.75 / 1.0
Weight	kg	4.2 <sup>1)</sup>	4.4 <sup>1)</sup>	4.6 <sup>1)</sup>	4.9 <sup>1)</sup>
Standard cutting tool		AutoCut mowing head C 5-2	AutoCut C 5-2	AutoCut C 5-2	AutoCut C 5-2

Model		FS 55	FS 56 RC-E	FS 56 C-E
Displacement	cm <sup>3</sup>	27.2	27.2	27.2
Power output	kW / bhp	0.75 / 1.0	0.8 / 1.1	0.8 / 1.1
Weight	kg	5.1 <sup>1)</sup>	4.8 <sup>1)</sup>	5.2 <sup>1)</sup>
Standard cutting tool		AutoCut C 5-2	AutoCut C 5-2	AutoCut C 5-2

<sup>1)</sup> Without cutting tool and deflector

## Blowers and Vacuum Shredders

# STIHL®

Blowers and vacuums from STIHL really prove their value in gardens and traffic areas or parks. Fallen leaves, grass cuttings, general debris - nothing can withstand their powerful blast. Everything is cleared away quickly. The STIHL vacuum shredders pick up immense volumes of fallen leaves, cut grass or trimmings. This garden waste is finely shredded at the same time so that it can be used directly for composting or mulching.



STIHL's high-performance blowers help you to forcefully eliminate wet layers of leaves and tackle clippings, small branches and grass. The blowers are ergonomically designed, easy to operate and a dream to start thanks to STIHL ErgoStart being a standard feature on all handheld blowers.

The vacuum shredders from STIHL pick up immense volumes of fallen leaves, cut grass and trimmings and simultaneously shred them. Reduced to less than 10% of the original volume, the organic material can be used directly for composting or mulching. With the standard accessories you can turn the vacuum shredder into a powerful blower too.

Model		BG 56 C-E	BG 66 C-E	BG 86 C-E
Displacement	cm <sup>3</sup>	27.2	27.2	27.2
Weight	kg	4.1 <sup>1)</sup>	4.7 <sup>1)</sup>	4.4 <sup>1)</sup>
Max. air throughput	m <sup>3</sup> /h	730 <sup>2)</sup>	730 <sup>2)</sup>	810 <sup>2)</sup>
Equipment		Round nozzle	Round nozzle	Round nozzle / Flat nozzle
Anti-vibration system		-	Y	Y

<sup>1)</sup> Complete, without fuel

<sup>2)</sup> Without blower attachment/nozzle

Model		SH 56 C-E	SH 86 C-E
Power output	kW/bhp	0.7 / 1.0	0.8 / 1.1
Weight	kg	5.3	5.6
Max. air throughput	m <sup>3</sup> /h	710	770
Equipment		Integrated shoulder strap for vacuum bag	Integrated shoulder strap for vacuum bag
HD2-Filter		-	Y

## Pressure Washers

**STIHL**®

The STIHL high pressure cleaner range offers great cleaning power. The machines use eco-friendly technologies and are built to have a long operational life. The STIHL wet and dry vacuum cleaners score with their powerful suction and ease of handling.

The powerful STIHL pressure washers clean up dirt in no time. Robust technology and comfortable equipment makes cleaning almost a pleasure. For the industrial company or around the house: from the handy compact device up to the professional model STIHL has a machine for every need. And in the STIHL accessories range, you will be able to find a solution for unusual cleaning tasks too. All STIHL pressure washers come with a 3 year domestic warranty.



Model		RE 88	RE98	RE 109	RE 119	RE 129 Plus	RE 143 Plus
Operating pressure	bar	10-100	10-110	10-110	10-125	10-135	10-140
Power output	kW	1.7	1.7	1.7	2.1	2.3	2.9
High-pressure hose length	m	6	6	7	8	9	12
Max. water throughput	l/h	520	440	440	500	500	610



## Personal Protective Equipment

# STIHL®

When working with power tools having the best possible protection is very important. You must be able to rely on your protective equipment. STIHL offers first class protective equipment, which is very comfortable to wear. Choose your personal outfit from our extensive product range of functional protective clothing and practical accessories and assure yourself that being safe with STIHL is also the comfortable option.



- STIHL X-TREEM:** Designed for climbing professionals
- STIHL HIFLEX:** Arborist favourite
- STIHL ADVANCE:** Ideal for cold and wet environments
- STIHL DYNAMIC:** Demanding forestry work
- STIHL FUNCTION ERGO:** Cost effective choice

Wet weather clothing

Workwear

Footwear

Head protection

Face and ear protection

Eye protection

Gloves



### High visibility chainsaw PPE:

GO/RT 3279 Railway Standard Approvals



[www.stihl.co.uk/STIHL-Products/01531/Personal-Protective-Equipment](http://www.stihl.co.uk/STIHL-Products/01531/Personal-Protective-Equipment)



**Submersible pumps:** these pumps are designed to be used fully submerged under water. They are simple to use and reliable in operation because only a discharge pipe is required and priming is unnecessary. All our submersibles are electric, with perfectly sealed motors close coupled to the pumping chamber to ensure safe operation when pumping fluids to the surface. Our range covers all these common voltages and currents: 12V, 24V, 110V, 230V and 400V, alternating current (AC), for use in domestic and industrial applications, and direct current (DC) for use with batteries. AC motors operate with a mains frequency of 50Hz. Alternative voltages and frequencies are available (price on application)

**Surface pumps:** these pumps are designed to be used out of water. All pumps in this category are electric and, with the exception of model BCP20, they have motors rated from IP44 to IP55 to indicate the level of protection from material and liquids. They require inlet and outlet pipe and require priming initially. Our range covers all these common voltages and currents: 12V, 24V, 110V, 230V and 400V, alternating current (AC), for use in domestic and industrial applications, and direct current (DC) for use with batteries. AC motors operate with a mains frequency of 50Hz. Alternative voltages and frequencies are available (price on application).

**Engine pumps:** these pumps are designed to be used out of water and must not be used inside buildings or partially enclosed areas. Powered by petrol or diesel, pump end options are either centrifugal or diaphragm. Both require inlet and outlet pipe, however, a centrifugal requires priming initially to self-prime and should not run without water. A diaphragm pump does not need priming and it can run dry.

**Hand pumps:** these pumps are designed to be used out of a liquid. Combining human power and mechanical advantage to move liquids, the range offered has inlet and outlets designs that are fixed or flexible. The range covers applications that are portable, temporary or permanent.

**Diesel transfer pumps:** a range of pumps and accessories for the pumping of red, white and bio diesel only. The surface pumps are designed for use out of the diesel liquid, require inlet and outlet pipe, and have a by-pass valve to enable operation with a trigger nozzle. The submersibles are designed to be fully submerged. Our range covers all these common voltages and currents: 12V, 24V, 110V, 230V and 400V, alternating current (AC), for use in domestic and industrial applications, and direct current (DC) for use with batteries. AC motors operate with a mains frequency of 50Hz.

**Oil transfer pump:** a pump that is designed to pump oils and lubricants, for surface use only. Available with these common voltages and currents: 110V, 230V and 400V, alternating current (AC), for use in domestic and industrial applications. AC motors operate with a mains frequency of 50Hz.

## Engine Pumps

These pumps are designed to be used out of water and must not be used inside buildings or partially enclosed areas. Powered by petrol or diesel, pump end options are either centrifugal or diaphragm. Both require inlet and outlet pipe. A centrifugal requires priming initially to self-prime and should not run without water. A diaphragm pump does not need priming and it can run dry.

- PETROL CENTRIFUGAL**
- DIESEL CENTRIFUGAL**
- PETROL HIGH PRESSURE**
- SEAWATER & CHEMICAL CENTRIFUGAL**
- PETROL & DIESEL DIAPHRAGM**
- TRASH & SEMI TRASH CENTRIFUGAL**



### Our most popular model - TE2

TE2 pump is self-priming pumps powered by 4 stroke Tsurumi engines. Compact, portable, easy to start up and operate they can pump clean and dirty water. Robust design, with good flows and pressure, it is suitable for irrigation, site use and general transfer. TE2 and WB models also feature oil alerts for engine misuse protection.

Model		TE2-100HA
Outlet	mm	100
Flow	l/min	1800
Head	Metres	28
Width	mm	425
Length	mm	600
Height	mm	560
Inlet	mm	100
Fuel		Petrol Engine
HP		8
Solids	mm	6
Dry Weight	kg	44
Packing Weight	kg	50.00
Engine Fuel		GX240

## Submersible Pumps

These pumps are designed to be used fully submerged under water. They are simple to use and reliable in operation because only a discharge pipe is required and priming is unnecessary. All our submersibles are electric, with perfectly sealed motors close coupled to the pumping chamber to ensure safe operation when pumping fluids to the surface.

**12V - 24V DC**  
**CHEMICAL & SEAWATER**  
**DRAINAGE**  
**DRAINAGE & SEWAGE**  
**PROJECT DEWATERING**  
**SAND DRAINAGE**  
**SEWAGE**  
**SITE DRAINAGE**  
**WELL & BOREHOLE**  
**WELL & WATER BUTT**  
**POND & WATER FEATURES**

# OBART

PUMPS



## Our most popular model - HS

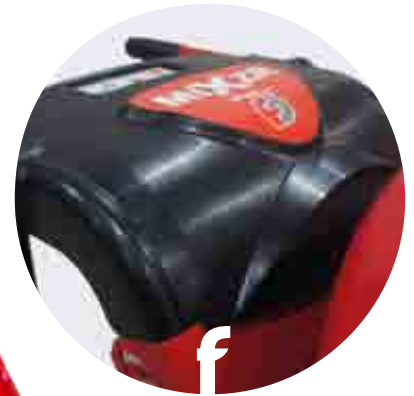
The HS series are heavy duty, yet lightweight, contractor pumps. With a side outlet arrangement, this design also has an integral stirring device, which combine to reduce blockages when used in very dirty site water. Available with or without a float switch.

Model		HS2.4S	HS2.4S	HS3.75S	HS3.75S
Manual or Auto		Manual	Automatic	Manual	Automatic
Outlet	mm	50	50	80	80
kW		0.4	0.4	0.75	0.75
Flow	l/min	205	205	310	310
Voltage		230V	230V	230V	230V
Head	Metres	12	12	18	18
Free Passage	mm	7	7	7	7
Width	mm	185	185	185	185
Length	mm	341	341	290	290
Height	mm	328	328	385	385
Dry Weight	kg	11.3	11.7	16.9	17.3
Packing Weight	kg	13.50	13.60	20.00	20.30



## MIXZR

A robust and efficient mixer for the professional builders and the Hire Industry. The MIXZR is designed, assembled and dispatched from Sheffield.



- Electric 240v & 110v 50Hz
- Rear frame extra benefits:
  - Prevents overreaching when tipping
  - Gives motor protection
  - Enables easy controlled tipping
- Unique paddle design enhances mixing performance
- Drum angle enables easier loading and faster discharge
- Drum design minimises splash out
- Low energy high performance geared motor
- Easy to assemble stand

**No Minimum order quantity - Any combination available 30 Day payment terms**

	Power kW	Current A	Motor Speed rpm	Drum Speed rpm	Max Drum Capacity L	Max Mixing Capacity L	Weight kG	Weight with stand kG	Order Code
Mixzr 115v	0.37	3.4	1475	22	134	90	59	71	94477
Mixzr 230v	0.37	1.7	1475	22	134	90	59	71	94478

## FBP Backpack Mechanical Poker

New, back mounted mechanical poker drive unit. Available with a selection of poker head sizes.



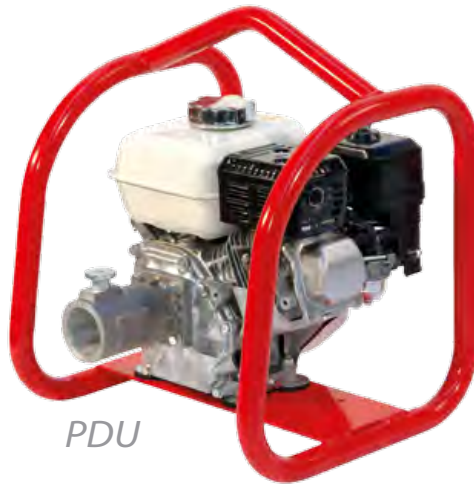
- Swivel mounted and isolated frame.
- Ergonomic and comfortable design.
- Uses New AVMU Poker Heads.
- Total mobility, no electricity needed.
- 2 metres of anti-abrasion flexible drive.
- Additional belt improves operator comfort.
- 4 Stroke Honda engine power.

Choose and specify the Drive unit, Drive length and Poker heads to suit your job requirements.

	Engine	Flexible Shaft Length m	Poker Diameter mm	Vibration VPM	Weight Kg	Order Code
FBP Backpack Poker Drive Unit	Honda GX 35				7	94321
2m Flexible drive for 25mm poker head		2			4	94325
2m Flexible drive for 38 & 48mm poker heads		2			4	94326
25mm poker head			25	14,000	1	93170
38mm poker head			38	13,500	1.9	93171
48mm poker head			48	13,000	3.4	93172

## Poker & Pump Drive Units

Petrol, Diesel or Electric Drive units to power flexible drive pokers or submersible pumps. Extra tough large diameter tubular steel frames.



PDU



DDU

PDU petrol or DDU Diesel drive units

- Tough 32mm steel tube engine protection.
- Fully welded frame for extra durability.
- Drive coupling choices suitable for most makes of poker.



Also powers flexible shaft driven pumps.



EMD

EMD 115v or 230v electric drive unit

- Lightweight, quiet and robust with small skid base plate.
- Strong steel casing protects the motor.
- Lifting handle enables easy transport.
- Drive coupling choices suitable for most makes of poker.

	Drive Coupling Type	Power HP / kW	Speed RPM	Length mm	Width mm	Height mm	Guaranteed Sound Power dB	Weight Kg	Order Code
PDU Drive unit Honda Petrol GX160	Warsop	5.5 / 4.0	2800	405	445	515	94.5	23	92726
	Metrix								92198
	Dynapac								92776
DDU Drive unit Hatz 1B20	Warsop	4.8 / 3.5	2800	450	475	625	97	39	92728
	Metrix								92678
	Dynapac								92779
EMD Drive unit Electric 115v	Warsop	1.0 / 0.75	2800	316	245	315	<75	16.5	93041
	Metrix								93049
	Dynapac								93046
EMD Drive unit Electric 230v	Warsop	1.0 / 0.75	2800	316	245	315	<75	16.5	93045
	Metrix								93048
	Dynapac								93047

## Hand Tamper

For tamping and striking off, the Hand tamper has an accurate Aluminium box section beam with handles to make lighter work of smaller jobs. Step up from a plank and save your back.



- Aluminium Beam section, light and easy to use.
- Solid handles, improves control, work without bending.
- Smooth surfaces, just hose down after use.

Choose beam lengths to suit your bay widths, allow a minimum of 0.1m overhang. Special size hand tampers made to order, sizes from 4.2 to 7.2m

	Beam length mm	Beam width Top / Bottom mm	Beam height mm	Overall length with handles m	Handle height mm	Weight Kg	Order Code
4.2m Aluminium hand tamper	4.2m	28 / 32	102	4.72	680	20	93282
5.2m Aluminium hand tamper	5.2m	28 / 32	102	5.72	680	25	93113
6.2m Aluminium hand tamper	6.2m	28 / 32	102	6.72	680	30	93114
7.2m Aluminium hand tamper	7.2m	28 / 32	102	7.72	680	35	93115



## Super Screeder

The popular Super Screeder can be clamped onto scaffold boards or, for an accurate finish, use the aluminium Beam Units. The Super Screeder strikes off and compacts as it goes



- High quality hard wearing aluminium beams.
- Self travelling.
- Strike off and compact widths up to 7.2m, fast working off standard bays.
- Prestressed beams, no sagging, better vibration transmission.
- Adjustable tension, higher accuracy on wider bays.
- Engine well above concrete level, less maintenance problems.
- Vibration isolated engine, improves engine life.
- Rope handle pulled, no issues with HAV.

Choose beam lengths to suit your bay widths, allow a minimum of 0.1m overhang.

Non standard lengths can be made to order.

	Power hp	Frequency VPM	Centrifugal force (Kg)	Length mm	Width mm	Height mm	Guaranteed Sound Power dB	Weight Kg	Order Code
Super Screeder Petrol Honda GX160	5.5	3000	417	590	400	550	104	65	92240
	Beam size m	Suitable for bay width							
4.2m Tensioned aluminium beam assembly	4.2m	4m (13')		4300	47	150		62	92270
4.7m Tensioned aluminium beam assembly	4.7m	4.5m (14' 10")		4800	47	150		67	92271
5.2m Tensioned aluminium beam assembly	5.2m	5 m (16' 3")		5300	47	150		72	92272
6.2m Tensioned aluminium beam assembly	6.2m	6m (19' 6")		6300	47	150		82	92273
7.2m Tensioned aluminium beam assembly	7.2m	7m (22' 9")		7300	47	150		92	92274

## Hand Tools

After screeding, a new slab can be floated to smooth out surface imperfections or to a light texture. These long handled tools make the job quick and easy. Specialist rakes and placers speed up the spreading and rough leveling of concrete prior to screeding



- New improved rivet free Big Blue.
- All with 'knuckle heads', twist to tilt.
- Snap together handles, reach right across the slab.
- Blades machined, superior flatness.
- Magnesium Bull Float - Light extruded alloy blade, early stage floating.
- Big Blue - Tempered steel blade, will work a slab for longer. with a sharp edge.
- Rake and placer for heavy duty shifting of concrete.

	Width mm / inch	Depth mm	Weight Kg	Order Code
Magnesium c/w knuckle head & 3 handles	1200 / 48	200	9	93142
Big Blue c/w knuckle head & 3 handles	1200 / 48	300	11	93140
Fresno Broom 36" c/w knuckle head & 3 handles	900 / 36	180	9	94181
Concrete Placer with 5ft wooden handle	500 / 20	110	1.7	93233
Concrete Rake with 5ft wooden handle	500 / 20	110	1.7	93232
6 ft Handle (each)	6	44 diameter	0.77 kg	93188

# HSE Exposure points system and ready-reckoner

The table below is a 'ready reckoner' for calculating daily vibration exposures. All you need is the vibration magnitude (level) and exposure time. The ready-reckoner covers a range of vibration magnitudes up to 40 m/s<sup>2</sup> and a range of exposure times up to 10 hours.

The exposures for different combinations of vibration magnitude and exposure time are given in exposure points instead of values in m/s<sup>2</sup> A(8). You may find the exposure points easier to work with than the A(8) values:

- exposure points change simply with time: twice the exposure time, twice the number of points;
- exposure points can be added together, for example where a worker is exposed to two or more different sources of vibration in a day;
- the exposure action value (2.5 m/s<sup>2</sup> A(8)) is equal to 100 points;
- the exposure limit value (5 m/s<sup>2</sup> A(8)) is equal to 400 points;

40	265	800											Above exposure limit value
30	150	450	900										Likely to be at or above limit value
25	105	315	625	1250									Above exposure action value
20	67	200	400	800	1200								Likely to be at or above action value
19	60	180	360	720	1100	1450							Below exposure action value
18	54	160	325	650	970	1300							
17	48	145	290	580	865	1150							
16	43	130	255	510	770	1000							
15	38	115	225	450	675	900	1350						
14	33	98	195	390	590	785	1200						
13	28	85	170	340	505	675	1000	1350					
12	24	72	145	290	430	575	865	1150	1450				
11	20	61	120	240	365	485	725	970	1200	1450			
10	17	50	100	200	300	400	600	800	1000	1200			
9	14	41	81	160	245	325	485	650	810	970			
8	11	32	64	130	190	255	385	510	640	770			
7	8	25	49	98	145	195	295	390	490	590			
6	6	18	36	72	110	145	215	290	360	430			
5.5	5	15	31	61	91	120	180	240	305	365			
5	4	12	25	50	75	100	150	200	250	300			
4.5	3	10	21	41	61	81	120	160	205	245			
4	3	8	16	32	48	64	95	130	160	190			
3.5	2	6	13	25	37	49	75	98	125	145			
3	2	5	9	18	27	36	54	72	90	110			
2.5	1	3	6	13	19	25	38	50	63	75			
2	1	2	4	8	12	16	24	32	40	48			
1.5	0	1	2	5	7	9	14	18	23	27			
1	0	1	1	2	3	4	6	8	10	12			
	5 min	15 min	30 min	1 h	1 h 30 min	2 h	3 h	4 h	5 h	6 h			

Exposure time, T

	Above limit value
	Likely to be above limit value
	Above action value
	Likely to be above action value
	Below action value

Using the ready reckoner

1. Find the vibration magnitude (level) for the tool or process (or the nearest value) on the grey scale on the left of the table.
2. Find the exposure time (or the nearest value) on the grey scale across the bottom of the table.
3. Find the value in the table that lines up with the magnitude and time. The illustration shows how it works for a magnitude of 5 m/s<sup>2</sup> and an exposure time of 3 hours: in this case the exposure corresponds to 150 points.
4. Compare the points value with the exposure action and limit values (100 and 400 points respectively). In this example the score of 150 points lies above the exposure action value.

The colour of the square containing the exposure points value tells you whether the exposure exceeds, or is likely to exceed, the exposure action or limit value:

5. If a worker is exposed to more than one tool or process during the day, repeat steps 1 – 3 for each one, add the points, and compare the total with the exposure action value (100) and the exposure limit value (400).





# THE ART OF IDENTIFICATION



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