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(FOR EXCAVATORS, SKIDSTEERS AND TELEHANDLERS)

KINSHOFER

Worldwide

What has now become a worldwide operating company once started in a small garage in the Bavarian uplands. Innovation and quality have made the company what it is today: a global player in the construction industry.

KINSHOFER can count on a range of subsidiaries and sales offices worldwide to promote its products.



KINSHOFER GmbH
Headquarters Marienstein,
GERMANY
1971

DEMAREC B.V.
THE NETHERLANDS
2006



AUGER TORQUE Europe Ltd.
UNITED KINGDOM
2015



KINSHOFER UK
UNITED KINGDOM
1984

RF-System AB
SWEDEN
2011



KINSHOFER North America
CANADA
2000

KINSHOFER France S.A.R.L.
FRANCE
1986



KINSHOFER USA
UNITED STATES OF AMERICA
2013



KINSHOFER Aponox Oy
FINLAND
2009

Darda KINSHOFER
Construction Machinery Co. Ltd.
PR CHINA
2008



A History of Quality and Success

For more than 40 years we have specialized in the development and construction of quality attachments for cranes and excavators. Within the industry, our name has become synonymous for innovation, quality and reliability!

ALWAYS IN MIND – OUR CLIENT'S NEEDS

KINSHOFER GmbH is one of the leading manufacturers of attachments for loader cranes and hydraulic excavators, as well as for rotators, Tiltrotators and rotary actuators. The headquarters of the medium-sized company is located in the Bavarian village Waakirchen/Marienstein, Germany.

Originally named KINSHOFER Maschinenbau Miesbach, the company was founded by Alfred Kinshofer on August 4, 1971 in Miesbach, Bavaria, Germany.

At the beginning the small business only produced bridge bearings, handrails and accessories for brick factories, such as tunnel kiln trucks or lifting and lowering devices for tile presses.

Two years after the company's founding, the development of the first brick stack grapple began. Just one year later, the construction of a pallet fork and a clamshell bucket followed. As the capacities of the original factory had been exhausted, a new plant was built in eastern Miesbach in 1975.

Only two years later, this building had grown too small again, so a second building was constructed with additional office buildings.

In 1979, the company's first rotator with 360° endless rotation was developed.

The company changed its name to KINSHOFER Greiftechnik GmbH in 1980, and the first sales activities in the United States and the UK took place.

In 1984, the first foreign sales subsidiary of the company was founded in Stockport, Cheshire, England: KINSHOFER UK Ltd.

Alfred Kinshofer sold his shares in 1987, but kept being a worthy consultant for the company. The same year, KINSHOFER France was founded in Strasbourg, France.

Planning began in 1997 for factories in the Austrian village of Gmünd and the Czech České Velenice, and one year later MARS Greiftechnik was founded and production started.

In the year 2000, KINSHOFER made the step overseas and acquired the Canadian company Liftall which was to become the subsidiary KINSHOFER North America.

A major milestone for KINSHOFER occurred in 2003: the development of the patented HPXdrive that bestowed the if-Silver Award for "Product Design" in the "Industry" branch upon the company.

In 2006, the company finally got its current name: KINSHOFER GmbH. The same year, the Dutch specialist for demolition and recycling tools Demarec B.V. was acquired.

The worldwide operating Swedish company Lifco AB acquired KINSHOFER GmbH in 2007.

Another logical consequence was the expansion to the east, and so the company Darda KINSHOFER Construction Machinery Co. Ltd. was founded in 2008 in the Chinese capital of Beijing.

The same year marks the foundation of KINSHOFER Aponox Oy in Hämeenlinna, Finland with the main focus on NOX Tiltrotators.

As the year 2011 came to an end, KINSHOFER acquired the Swedish company RF-System AB, as well as the intellectual property and distribution rights of New Zealand's Wedgelock Equipment Ltd. at the beginning of 2012, further broadening the available product range.

In 2013, the new KINSHOFER US factory opened in Sanborn in the state of New York.

KINSHOFER and the UK based company Auger Torque Europe Limited announced on February 3rd 2015 that they have signed a definite agreement to merge. Under the terms of the agreement KINSHOFER has acquired 100% of the shares of Auger Torque Europe Ltd. and Auger Torque Australia Pty Ltd.. Auger Torque is a manufacturer of earth drills, augers, trenchers and other high quality attachments for excavators, skidsteers, backhoes, telehandlers, tractors, truck cranes & more.

KINSHOFER counts on a high vertical integration. The products are designed in the proper development department, constructed and finally tested in the in-house test laboratory. Thus the company retains control not only over the production, but also the product itself. Constant communication and information exchange between the company and its clients results in further developments and innovations that keep the company close to the customer.

In the Action Park at the company's headquarters, there is also the possibility for dealers and clients to take part in training and tool demonstrations.

Always close to the client – up front, everywhere...

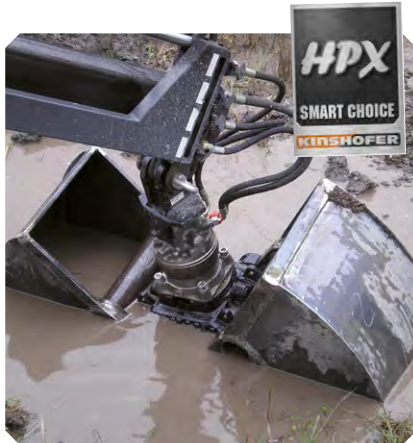
THERE IS NO ALTERNATIVE TO QUALITY

KINSHOFER
crane and excavator attachments

Many Applications One Solution

CONSTRUCTION

- Landscaping/Snow Removal
- Road Construction
- Civil Engineering
- Utilities



Within the range of attachments for construction, you can find different and versatile tools made by **KINSHOFER** for tasks from landscaping to road construction. Buckets and Clamshell buckets for different operating weights and in different widths, suitable adapters and quick hitches are part of the product range as well as smaller demolition and sorting grabs, multi purpose grabs, rock grabs, augers and brushes for dirt and snow removal. Innovations not missed are the unique cylinderless **NOX** Tiltrotator, the revolutionary **HPXdrive** – no hoses, no hydraulic cylinders, easy shell exchange and absolutely maintenance-free – or the C-VE series with its fast shell exchange system!



SCRAP PROCESSING

- Scrap Metal
- Scrap Tires
- Scrap Rails

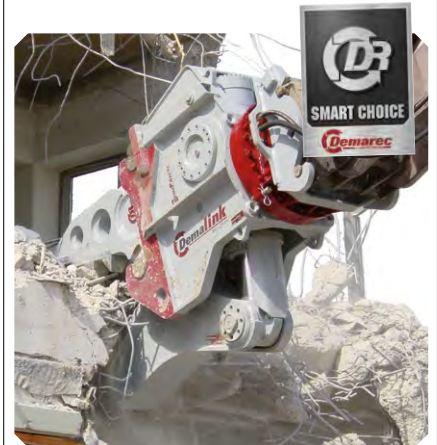


Scrap processing has become an increasingly important concern throughout the world. Scrap metal has to be cut, broken, handled, separated, processed and recycled, similar to plastic, glass, and tires. Rail scrap processing is just one important part of the large scrap industry. At **KINSHOFER** you will find the perfect tool for your task, no matter if you want to cut beams, rails, tires, containers, tanks or entire ships! Entrust **KINSHOFER** with your scrap processing task – we will find the perfect solution for you!



DEMOLITION

- Primary Demolition
- Secondary Demolition
- Steel



No matter if demolishing, breaking, comminuting or separating – with **Demarec** attachments for demolition and recycling you will always have the perfect tool. With attachments for a broad scope of machines, reaching from demolition grabs for lighter weight excavators up to dedicated shears for excavators of up to 80t operating weight – the perfect solution for each weight and task is available. Innovations do not fall short: the MQP with its strong power thanks to the **Demapower** - cylinder, or the **Demalink** system, making the exchange of jaws possible within only a few minutes on site!



KINSHOFER

Over 40 years of experience as well as involvement with end users in the development process, combined with the latest engineering tools, have led to **KINSHOFER's** comprehensive product range.

MATERIAL HANDLING

- Waste
- Bulk Material & Dry Cargo
- Timber



It makes no difference whether you are loading or discharging boat or train carriages, handling scrap or wood or performing demolition tasks – within the **KINSHOFER** range »Material Handling« you are sure to find the optimal tool. Excavators from 11t to 80t operating weight can be equipped.

Orange peel grabs with different capacities and designs are part of the available tools as well as demolition and sorting grabs, re-handling clamshell buckets or timber grabs.

Outstanding: the extraordinary C80H re-handling clamshell bucket with the incredible volume of 5000 litres!



RAIL

- Rail Track Construction
- Rail Track Maintenance
- Scrap Rails



There is hardly another invention that has changed the transport system as much as the railway. Railroads have, and continue, to play a large role in the way people and products are transported around the world. It is vital that railways are kept operational and safe.

No matter if it is about the construction, maintenance or demolition of railroad tracks: the **KINSHOFER** range meets every demand, ranging from sleeper layers and ballast tampers to large mobile rail cutters. Find everything you need and more in one single company!



CUSTOM UNITS

- Construction
- Off-Shore
- Nuclear
- Pipeline/Geothermal



As the tasks to be accomplished are becoming more and more complex, the requirements to be met increase accordingly. Many times, no standard tool can meet to solve clients' demands and thus, only a custom-made product can solve the problem.

Our existing products for custom and special solutions range from tools for off-shore operations, nuclear tasks to geothermal applications.

You have a certain problem on hand requiring a special solution?

KINSHOFER will find the perfect answer for you and your task!





Earth Drills & Trenchers ...

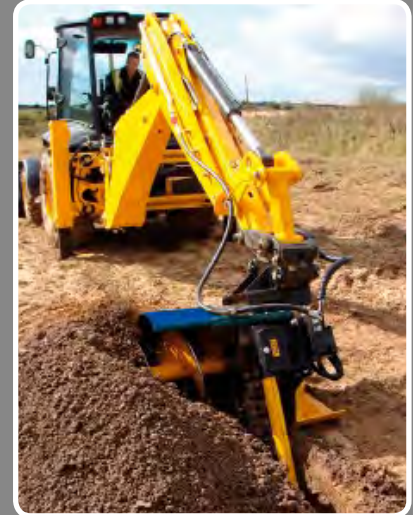
... are part of a new, comprehensive product range of high-quality and innovative attachments for general construction and landscaping of the Anglo-Australian KINSHOFER-daughter Auger Torque

No matter if used on an excavator (with an operating weight of 0.75 - 45t / 1650 - 99000 lbs), skidsteer loader or telehandler, Auger Torque earth drills and augers have already proven their quality and liability worldwide. The continuous dialog with the cusomters has led to additional interesting options for the earth drills, e.g. the mobile concrete mixer bowl or the stump planer for the efficient and fast removal of stumps.

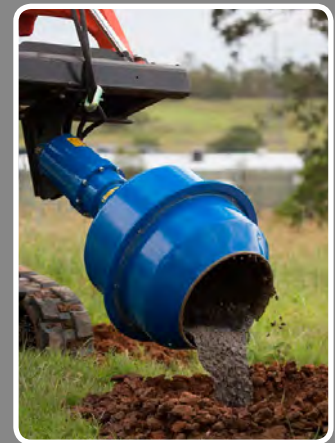


Pallet Forks for skidsteer loaders are not only for the use inside, but also ideal for the uneven grounds of a construction site

Auger Torque Trenchers facilitate the installation of cables or tubes. They are available for trench depths between 0.3 m and 1.5 m / 12 and 59 in as well as widths up to 350 mm / 14 in. A lateral auger is piling up the extracted material on one single side of the trench



With the Stump Planer, stumps are removed fast, easily, smoothly and at a low noise level



Ideal for the construction of fences - the auger can easily be replaced by a mixer bowl



Earth Drills are used in general construction and landscaping, e.g. for screw pile installations, foundations, pole and sound barrier installations, drillings, fence construction, etc.

Hard application: Drilling in Antarctica for research purposes



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EARTH DRILLS

FORGED HOOD EARS

The earth drill hood ears are forged to cope with the heavy strain of daily use. All hood pins are locked for extra safety making it almost impossible for the hood to detach from your hitch.

HOSE & COUPLER OPTIONS

All earth drills come standard with high quality hoses and couplers (excludes larger units).

HIGH QUALITY HYDRAULIC MOTORS

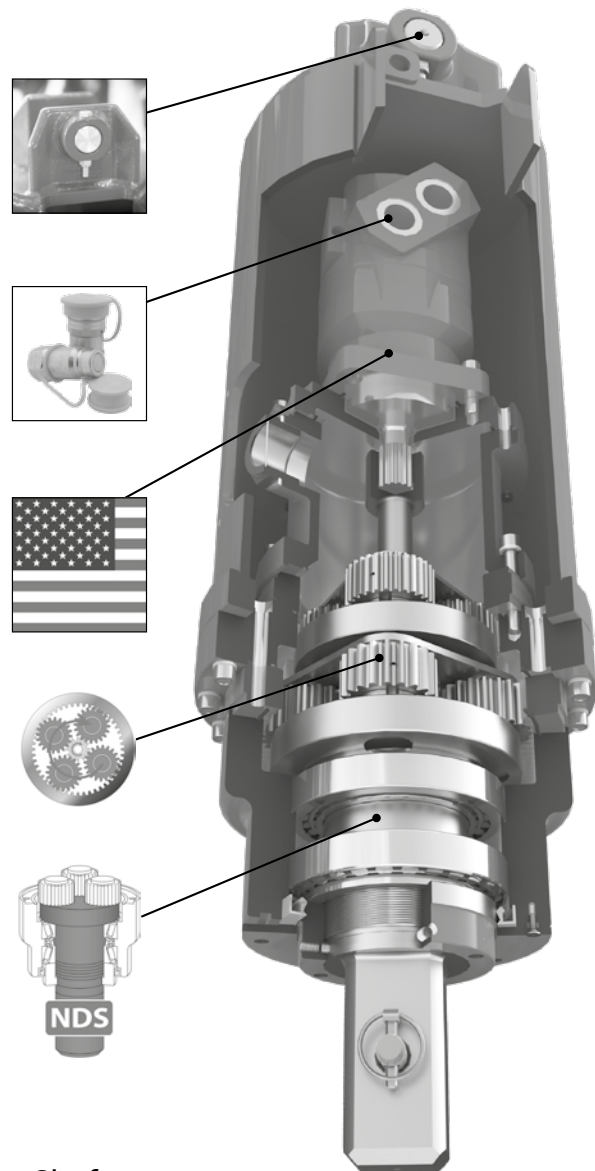
Auger Torque's huge buying power means we work closely with companies such as Eaton in America to develop the most reliable attachments available on the market today. Unlike some manufactures all our Eaton motors are in fact USA made.

EPICYCLIC GEARBOX

The torque is amplified by using the unique Auger Torque planetary gearbox. This system allows the motor's output torque to be multiplied with extreme efficiency as well as ensuring the durability and reliability you need.

NON-DISLODGE MENT SHAFT

Unique to Auger Torque, the Non-Dislodgement Shaft (NDS) is a single piece drive shaft assembled top down and locked into the earth drill housing. This design guarantees that the shaft will never fall out, making for a safer work environment, not only for the operator but also any surrounding workers, a MUST-HAVE FEATURE for any safety conscious company.



The robust earth drills for truck cranes up to 18,0 t/m are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, as this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a colored gear oil. Not only is the use of a colored oil a good indicator of correct service, but it also aids identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears; these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.



Earth Drills for Truck Cranes 3000TC / 5500TC / 7000TC

Type	For cranes up to (t/m)	Shaft standard (mm/in)	Shaft option (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
3000TC	9	65 / 2.56 round	2" hex; 57 / 2.24 square	7 - 46	665 / 26.18	244 / 9.61	73 / 161	S4 100 - 600
5500TC	15	75 / 2.95 square	2,5" hex	11 - 38	780 / 30.71	269 / 10.59	108 / 238	S5 150 - 800
7000TC	9 - 18	75 / 2.95 square	2,5" hex	9 - 30	780 / 30.71	269 / 10.59	110 / 243	S5 150 - 1000

Standard package consists of: earth drill, upper suspension link (depending on choice)

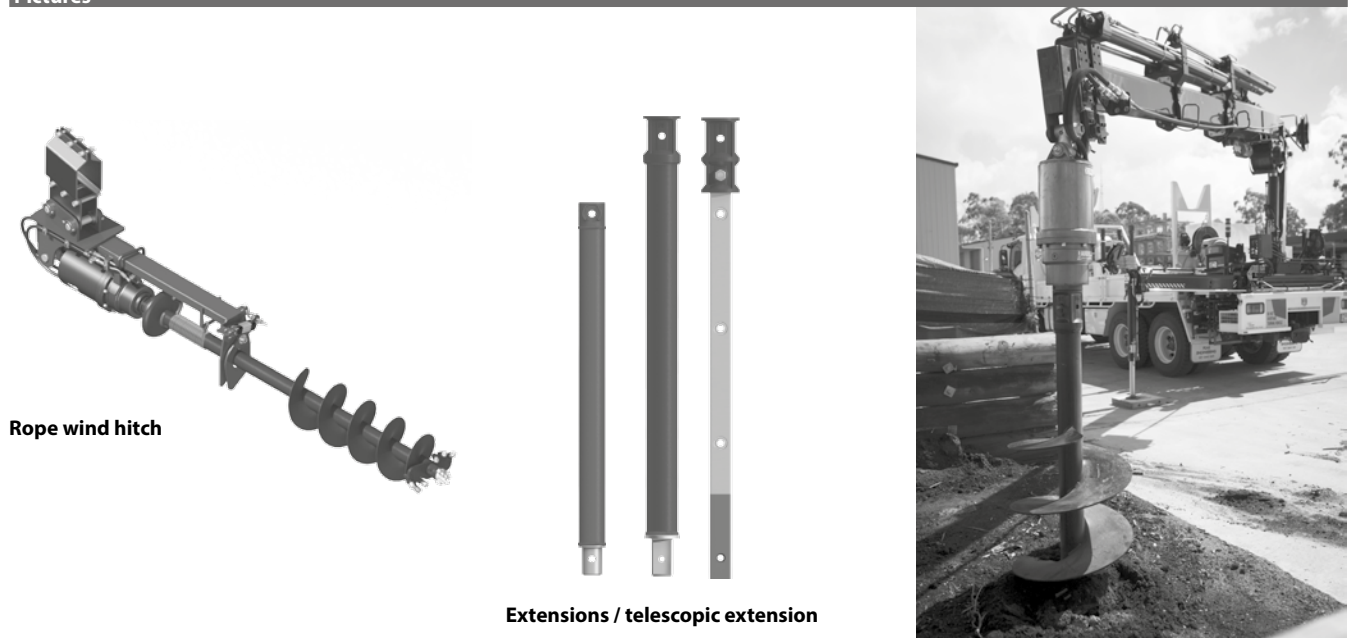
Accessories

Type	Description
S4 Extension 500	extension suitable for earth drill 3000TC and S4 augers – 500 mm / 19.68 in length
S4 Extension 800	extension suitable for earth drill 3000TC and S4 augers – 800 mm / 31.49 in length
S4 Extension 1000	extension suitable for earth drill 3000TC and S4 augers – 1000 mm / 39.37 in length
S4 Extension 1200	extension suitable for earth drill 3000TC and S4 augers – 1200 mm / 47.24 in length
S5 Extension 1000	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 1000 mm / 39.37 in length
S5 Extension 1500	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 1500 mm / 59.05 in length
S5 Extension 2000	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 2000 mm / 78.74 in length
S5 Telescopic Extension 1500	telescopic extension suitable for earth drills 5500TC / 7000TC and S5 augers – 1500 mm / 59.05 in length
S5 Telescopic Extension 2000	telescopic extension suitable for earth drills 5500TC / 7000TC and S5 augers – 2000 mm / 78.74 in length
Rope wind hitch	rope wind hitch for safe position on the truck crane during transport

Technical Details

Type:	3000TC	5500TC	7000TC
Oil pressure range:	80 - 260 bar / 1161 - 3771 psi	80 - 260 bar / 1161 - 3771 psi	80 - 260 bar / 1161 - 3771 psi
Oil flow range:	5 - 35 l/min / 1.5 - 10 GPM	15 - 50 l/min / 4 - 14 GPM	15 - 50 l/min / 4 - 14 GPM
Torque range:	959 - 3116 Nm / 707 - 2295 ft.lbs.	1685 - 5477 Nm / 1242 - 4039 ft.lbs.	2098 - 6819 Nm / 1547 - 5029 ft.lbs.

Pictures

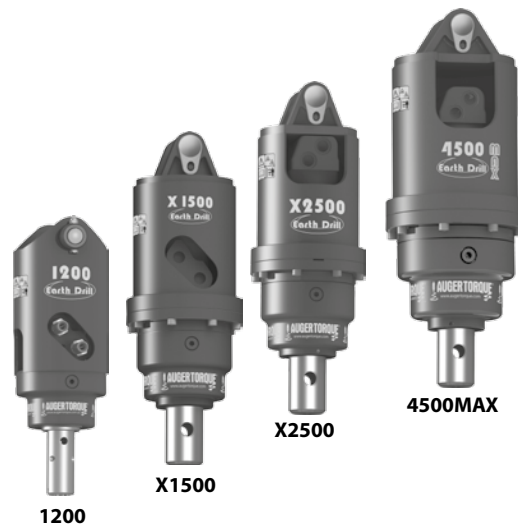


Earth Drills for Micro and Mini Excavators

1200 / X1500 / X2000 / X2500 / 3000MAX / 3500MAX / 4500 MAX

The robust earth drills for micro and mini excavators from 0,75t / 1650 lbs to 5t / 11000 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, as this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a colored gear oil. Not only is the use of a colored oil a good indicator of correct service, but it also aids identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears; these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.



Earth Drills for Micro and Mini Excavators 1200 / X1500 / X2000 / X2500 / 3000MAX / 3500MAX / 4500MAX

Type	Operating weight excavator (t/lbs)	Shaft standard (mm/in)	Shaft option (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
1200	0,75 - 1 / 1650 - 2200	50 / 1.97 round	2" hex; STIHL	38 - 81	450 / 17.72	168 / 6.61	35 / 77	S2 100 - 300
X1500	1 - 2 / 2200 - 4400	65 / 2.56 round	2" hex; 57 / 2.24 square	44 - 98	585 / 23.03	200 / 7.87	46 / 98	S4 100 - 400
X2000	1 - 2,5 / 2200 - 5500	65 / 2.56 round	2" hex; 57 / 2.24 square	43 - 99	585 / 23.03	200 / 7.87	47 / 104	S4 100 - 450
X2500	1,5 - 3 / 3300 - 6600	65 / 2.56 round	2" hex; 57 / 2.24 square	36 - 87	585 / 23.03	200 / 7.87	48 / 106	S4 100 - 500
3000MAX	2 - 4 / 4400 - 8800	65 / 2.56 round	2" hex; 57 / 2.24 square	36 - 100	665 / 26.18	244 / 9.61	71 / 157	S4 100 - 600
3500MAX	2,5 - 4,5 / 5500 - 9900	65 / 2.56 round	2" hex; 57 / 2.24 square	42 - 90	665 / 26.18	244 / 9.61	73 / 161	S4 100 - 750
4500MAX	3 - 5 / 6600 - 11000	65 / 2.56 round	2" hex; 57 / 2.24 square	43 - 81	665 / 26.18	244 / 9.61	75 / 166	S4 100 - 900

Standard package consists of: earth drill, upper suspension (depending on choice)

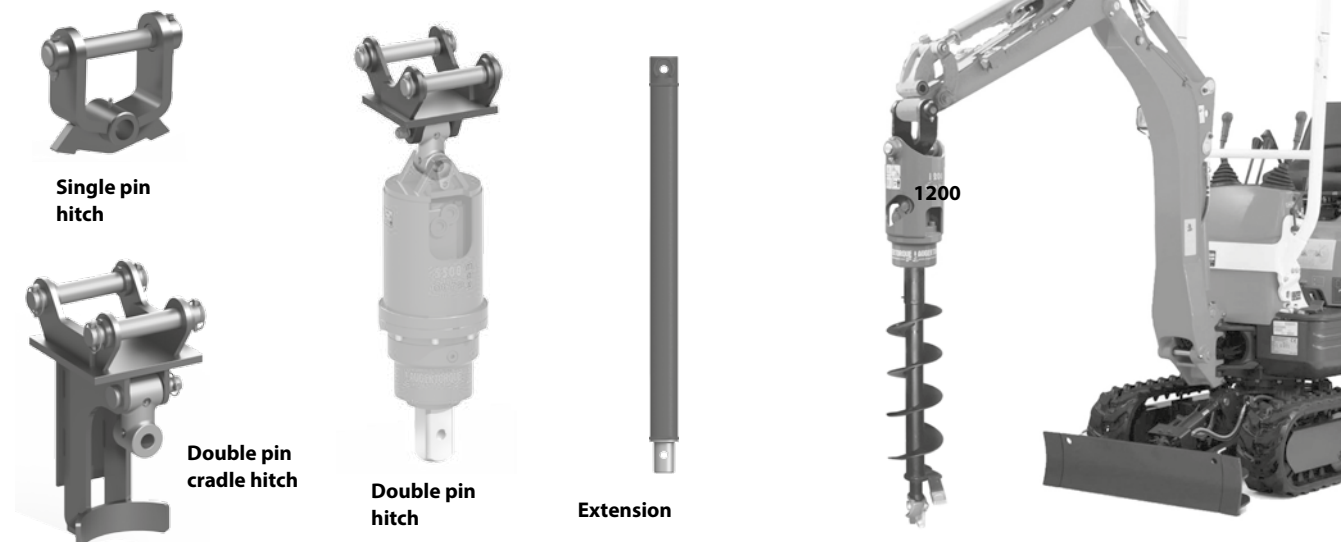
Accessories

Type	Description
S4 Extension 500	extension suitable for earth drills X1500 to 4500MAX and S4 Augers – 500 mm / 19.68 in length
S4 Extension 800	extension suitable for earth drills X1500 to 4500MAX and S4 Augers – 800 mm / 31.49 in length
S4 Extension 1000	extension suitable for earth drills X1500 to 4500MAX and S4 Augers – 1000 mm / 39.37 in length
S4 Extension 1200	extension suitable for earth drills X1500 to 4500MAX and S4 Augers – 1200 mm / 47.24 in length
Single pin hitch	for earth drills 1200 to 4500MAX
Double pin hitch	for earth drills X1500 to 4500MAX
Double pin cradle hitch	for earth drills X1500 to 4500MAX

Technical Details

Type:	1200	X1500	X2000	X2500	3000MAX	3500MAX	4500MAX
Oil pressure range:	30 - 185 bar 435 - 2683 psi	70 - 205 bar 1016 - 3000 psi	70 - 240 bar 1016 - 3481 psi	70 - 240 bar 1016 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi
Oil flow range:	15 - 32 l/min 4 - 9 GPM	20 - 45 l/min 5 - 13 GPM	25 - 57 l/min 6 - 15 GPM	27 - 65 l/min 7 - 17 GPM	27 - 75 l/min 7 - 20 GPM	40 - 85 l/min 10 - 22.45 GPM	50 - 95 l/min 13 - 25.09 GPM
Torque range:	189 - 1164 Nm 139 - 858 ft.lbs.	511 - 1496 Nm 376 - 1103 ft.lbs.	639 - 2190 Nm 471 - 1615 ft.lbs.	830 - 2847 Nm 612 - 2099 ft.lbs.	959 - 2877 Nm 707 - 2121 ft.lbs.	1205 - 3614 Nm 888 - 2665 ft.lbs.	1500 - 4499 Nm 1106 - 3318 ft.lbs.

Pictures



5000 / 7000 /
7000MAX / 8000MAX

Earth Drills for Excavator and Backhoes

The robust earth drills for excavator from 4,5t / 9900 lbs to 8t / 17600 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

The earth drills 7000MAX and 8000MAX are also suitable for backhoes.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.



Earth Drills for Excavators and Backhoes 5000 / 7000 / 7000MAX / 8000MAX

Type	Operating weight excavator (t/lbs)	Shaft standard (mm/in)	Shaft option (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
5000	4,5 - 6 / 9900 - 13200	75 / 2.95 square	2,5" hex	30 - 72	780 / 30.70	269 / 10.59	108 / 238	S5 150 - 750
7000	5 - 7 / 11000 - 15400	75 / 2.95 square	2,5" hex	30 - 70	780 / 30.70	269 / 10.59	110 / 243	S5 150 - 900
7000MAX	5 - 7 / 11000 - 15400	75 / 2.95 square	2,5" hex	36 - 81	780 / 30.70	269 / 10.59	112 / 247	S5 150 - 900
8000MAX	6 - 8 / 13200 - 17600	75 / 2.95 square	2,5" hex	33 - 70	780 / 30.70	269 / 10.59	116 / 260	S5 150 - 1200

Standard package consists of: earth drill, upper suspension (depending on choice)

Accessories

Type	Description
S5 Extension 1000	extension suitable for earth drills 5000 to 8000MAX and S5 augers – 1000 mm / 39.37 in length
S5 Extension 1500	extension suitable for earth drills 5000 to 8000MAX and S5 augers – 1500 mm / 59.05 in length
S5 Extension 2000	extension suitable for earth drills 5000 to 8000MAX and S5 augers – 2000 mm / 78.74 in length
S5 Telescopic-extension 1500	telescopic-extension suitable for earth drills 5000 to 8000MAX and S5 augers – 1500 mm / 59.05 in length
S5 Telescopic-extension 2000	telescopic-extension suitable for earth drills 5000 to 8000MAX and S5 augers – 2000 mm / 78.74 in length
Single pin hitch	for earth drill types 5000 to 8000MAX
Double pin hitch	for earth drill types 5000 to 8000MAX
Double pin cradle hitch	for earth drill types 5000 to 8000MAX

Technical Details

Type:	5000	7000	7000MAX	8000MAX
Oil pressure range:	80 - 240 bar 1161 - 3481 psi	80 - 260 bar 1161 - 3771 psi	80 - 260 bar 1161 - 3771 psi	80 - 240 bar 1161 - 3481 psi
Oil flow range:	40 - 95 l/min 10 - 25.09 GPM	50 - 115 l/min 13 - 30 GPM	60 - 135 l/min 15 - 35 GPM	70 - 150 l/min 18 - 40 GPM
Torque range:	1685 - 5056 Nm 1242 - 3728 ft.lbs.	2098 - 6819 Nm 1547 - 5029 ft.lbs.	2133 - 6931 Nm 1573 - 5111 ft.lbs.	2717 - 8152 Nm 2003 - 6012 ft.lbs.

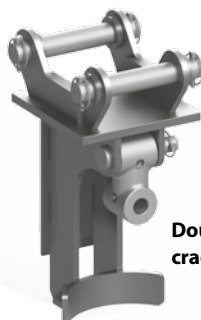
Pictures



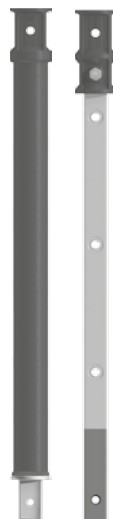
Single pin hitch



Double pin hitch



Double pin cradle hitch



Extension / Telescopic-extension



Earth Drills for Excavator and Backhoes

10000 / 12000 / 15000 /
12000MAX / 15000MAX

The robust earth drills 12000MAX and 15000MAX for excavator from 8t / 17600 lbs to 15t / 33000 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

The earth drills 10000, 12000 and 15000 are also suitable for backhoes.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.
- Optional for screw pile installation: torque meter for real time applied torque measuring.



Earth Drills for Excavators and Backhoes 10000 / 12000 / 15000 / 12000MAX / 15000MAX

Type	Operating weight excavator (t/lbs)	Shaft standard (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
10000	backhoe	75 / 2.95 square	27 - 58	883 / 34.76	290 / 11.41	162 / 358	S6 150 - 900
12000	backhoe	75 / 2.95 square	21 - 45	883 / 34.76	290 / 11.41	162 / 358	S6 150 - 1000
15000	backhoe	75 / 2.95 square	18 - 38	883 / 34.76	290 / 11.41	165 / 364	S6 150 - 1200
12000MAX	8 - 13 / 17600 - 28600	75 / 2.95 square	25 - 54	930 / 36.61	290 / 11.41	172 / 358	S6 150 - 1000
15000MAX	10 - 15 / 22000 - 33000	75 / 2.95 square	20 - 43	930 / 36.61	290 / 11.41	173 / 364	S6 150 - 1200

Standard package consists of: earth drill, upper suspension (depending on choice)

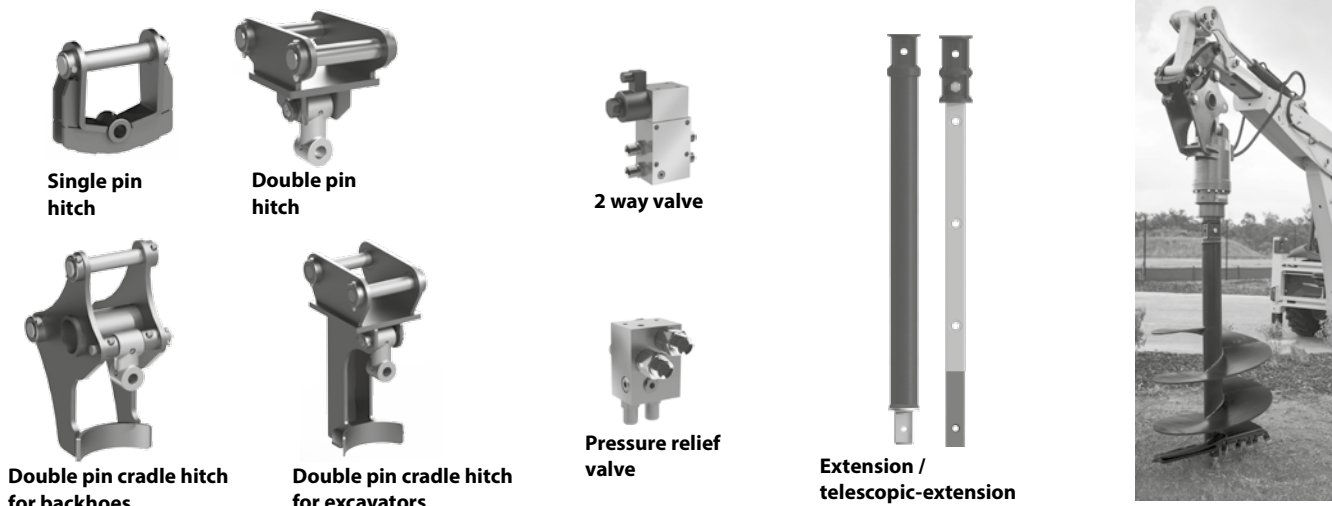
Accessories

Type	Description
S6 Extension 1500	extension suitable for earth drills 10000 to 15000MAX and S6 augers – 1500 mm / 59.05 in length
S6 Extension 2000	extension suitable for earth drills 10000 to 15000MAX and S6 augers – 2000 mm / 78.74 in length
S6 Extension 2500	extension suitable for earth drills 10000 to 15000MAX and S6 augers – 2500 mm / 98.42 in length
S6 Extension 3000	extension suitable for earth drills 10000 to 15000MAX and S6 augers – 3000 mm / 118.11 in length
S6 Telescopic-extension 1500	telescopic-extension suitable for earth drills 10000 to 15000MAX and S6 augers – 1500 mm / 59.05 in length
S6 Telescopic-extension 2000	telescopic-extension suitable for earth drills 10000 to 15000MAX and S6 augers – 2000 mm / 78.74 in length
Single pin hitch	for earth drill types 10000 to 15000MAX
Double pin hitch	for earth drill types 10000 to 15000MAX
Double pin cradle hitch	for earth drill types 10000 to 15000MAX
Pressure relief valve	for earth drill types 12000MAX and 15000MAX
2 way valve	for earth drill types 10000 to 15000MAX to convert single acting hammer circuit into 2 way auxiliary flow

Technical Details

Type:	10000	12000	15000	12000MAX	15000MAX
Oil pressure range:	80 - 260 bar 1161 - 3771 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi
Oil flow range:	70 - 150 l/min 18 - 40 GPM	70 - 150 l/min 18 - 40 GPM	70 - 150 l/min 18 - 40 GPM	80 - 170 l/min 21 - 45 GPM	80 - 170 l/min 21 - 45 GPM
Torque range:	3281 - 10662 Nm 2419 - 7863 ft.lbs.	4203 - 12610 Nm 3099 - 9299 ft.lbs.	5024 - 15071 Nm 3705 - 11114 ft.lbs.	3998 - 11995 Nm 2948 - 8846 ft.lbs.	5024 - 15071 Nm 3705 - 11114 ft.lbs.

Pictures



17000MAX / 20000MAX / 25000MAX

Earth Drills for Excavators

The robust earth drills for excavator from 12t / 26400 lbs to 22t / 48400 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.
- Optional for screw pile installation: torque meter for real time applied torque measuring.



Earth Drills for Excavators 17000MAX / 20000MAX / 25000MAX

Type	Operating weight excavator (t/lbs)	Shaft standard (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
17000MAX	12 - 17 / 26400 - 37400	75 / 2.95 square	20 - 42	1130 / 44.48	345 / 13.58	267 / 593	S6 150 - 1000
20000MAX	13 - 20 / 28600 - 44000	75 / 2.95 square	16 - 33	1130 / 44.48	345 / 13.58	268 / 593	S6 150 - 1200
25000MAX	15 - 22 / 33000 - 48400	75 / 2.95 square	12 - 26	1130 / 44.48	345 / 13.58	269 / 593	S6 150 - 1500

Standard package consists of: earth drill, upper suspension (depending on choice)

Accessories

Type	Description
S6 Extension 1500	extension suitable for earth drills 17000MAX to 25000MAX and S6 augers – 1500 mm / 59.05 in length
S6 Extension 2000	extension suitable for earth drills 17000MAX to 25000MAX and S6 augers – 2000 mm / 78.74 in length
S6 Extension 2500	extension suitable for earth drills 17000MAX to 25000MAX and S6 augers – 2500 mm / 98.42 in length
S6 Extension 3000	extension suitable for earth drills 17000MAX to 25000MAX and S6 augers – 3000 mm / 118.11 in length
S6 Telescopic-extension 1500	telescopic-extension suitable for earth drills 10000 to 15000MAX and S6 augers – 1500 mm / 59.05 in length
S6 Telescopic-extension 2000	telescopic-extension suitable for earth drills 10000 to 15000MAX and S6 augers – 2000 mm / 78.74 in length
Single pin hitch	for earth drill types 17000MAX to 25000MAX
Double pin hitch	for earth drill types 17000MAX to 25000MAX
Double pin cradle hitch	for earth drill types 17000MAX to 25000MAX
Pressure relief valve	for earth drill types 17000MAX to 25000MAX
2 way valve	for earth drill types 17000MAX to 25000MAX to convert single acting hammer circuit into 2 way auxiliary flow
Torque meter	for screw pile installation with earth drill types 17000MAX to 25000MAX

Technical Details

Type:	17000MAX	20000MAX	25000MAX
Oil pressure range:	160 - 240 bar / 2321 - 3481 psi	160 - 240 bar / 2321 - 3481 psi	160 - 240 bar / 2321 - 3481 psi
Oil flow range:	80 - 170 l/min / 21 - 45 GPM	80 - 170 l/min / 21 - 45 GPM	80 - 170 l/min / 21 - 45 GPM
Torque range:	10381 - 16869 Nm / 7655 - 12440 ft.lbs.	13043 - 19564 Nm / 9619 - 14428 ft.lbs.	16503 - 24755 Nm / 12170 - 18256 ft.lbs.

Pictures



Earth Drills for Excavators

30000 / 30000MAX / 35000MAX
40000 / 42000MAX / 50000MAX

The robust earth drills for excavator from 17t / 37400 lbs to 45t / 99000 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.
- Optional for screw pile installation: torque meter for real time applied torque measuring.



Earth Drills for Excavators 30000 / 30000MAX / 35000MAX / 40000 / 42000MAX / 50000MAX

Type	Operating weight excavator (t/lbs)	Shaft standard (mm/in)	Shaft option (mm/in)	Speed (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
30000	17 - 25 / 37400 - 55000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	11 - 24	1411 / 55.55	406 / 15.98	393 / 867	PA 300 - 1000
30000MAX	20 - 45 / 44000 - 99000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	23 - 69	1496 / 58.89	406 / 15.98	496 / 1094	PA 300 - 1200
35000MAX	20 - 45 / 44000 - 99000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	11 - 31	1411 / 55.55	406 / 15.98	442 / 972	PA 300 - 1500
40000	14 - 30 / 30800 - 66000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	7 - 15	1411 / 55.55	406 / 15.98	418 / 922	PA 700 - 2200
42000MAX	20 - 45 / 44000 - 99000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	9 - 26	1411 / 55.55	406 / 15.98	442 / 972	PA 300 - 1800
50000MAX	21 - 45 / 46200 - 99000	110 / 4.33 sward	100; 130 / 3.93; 5.11 sward	11 - 30	1411 / 55.55	406 / 15.98	472 / 1041	PA 300 - 2400

Standard package consists of: earth drill, upper suspension (depending on choice)

Accessories

Type	Description
PA Extension 2000	extension suitable for earth drills 30000 to 50000MAX and PA augers – 2000 mm / 78.74 in length
PA Extension 3000	extension suitable for earth drills 30000 to 50000MAX and PA augers – 3000 mm / 118.11 in length
PA Telescopic-extension 2000	telescopic-extension suitable for earth drills 30000 to 50000MAX and PA augers – 2000 mm / 78.74 in length
PA Telescopic-extension 3000	telescopic-extension suitable for earth drills 30000 to 50000MAX and PA augers – 3000 mm / 118.11 in length
Single pin hitch	for earth drill types 30000 to 50000MAX
Adaptor plate	for earth drill types 30000 to 50000MAX
Double pin cradle hitch	for earth drill types 30000 to 50000MAX
Pressure relief valve	for earth drill types 30000 and 40000
2 way valve	for earth drill types 30000 to 50000MAX to convert single acting hammer circuit into 2 way auxiliary flow

Technical Details

Type:	30000	30000MAX	35000MAX	40000	42000MAX	50000MAX
Oil pressure range:	160 - 240 bar 2321 - 3481 psi	160 - 450 bar 2321 - 6527 psi	180 - 310 bar 2592 - 4464 psi	160 - 240 bar 2321 - 3481 psi	180 - 310 bar 2592 - 4464 psi	160 - 320 bar 2321 - 4641 psi
Oil flow range:	80 - 170 l/min 21 - 45 GPM	100 - 300 l/min 26 - 80 GPM	80 - 225 l/min 21 - 59.44 GPM	80 - 170 l/min 21 - 45 GPM	80 - 225 l/min 21 - 59.44 GPM	100 - 280 l/min 26 - 73.97 GPM
Torque range:	18003 - 27005 Nm 13277 - 19916 ft.lbs.	11030 - 31021 Nm 8134 - 22877 ft.lbs.	20510 - 35323 Nm 15126 - 26050 ft.lbs.	28714 - 43071 Nm 21176 - 31764 ft.lbs.	24612 - 42387 Nm 18151 - 31260 ft.lbs.	23758 - 47515 Nm 17521 - 35042 ft.lbs.

Pictures



Single pin hitch



Adaptor plate



2 way valve



Extension / telescopic-extension



Double pin cradle hitch



Pressure relief valve



The robust earth drills for mini and skidsteer loaders are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.



Earth Drills for Mini and Skidsteer Loaders ML1500 / ML2000 / ML2500 / 3000MAX / 3500MAX / 4500MAX

Type	Shaft standard (mm/in)	Shaft option (mm/in)	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers
ML1500	65 / 2.55 round	2" hex; 57 / 2.24 square	44 - 98	406 / 15.98	205 / 8.07	38 / 80	S4 100 - 400
ML2000	65 / 2.55 round	2" hex; 57 / 2.24 square	43 - 99	465 / 18.30	205 / 8.07	40 / 86	S4 100 - 450
ML2500	65 / 2.55 round	2" hex; 57 / 2.24 square	36 - 87	465 / 18.30	205 / 8.07	40 / 86	S4 100 - 500
3000MAX	65 / 2.55 round	2" hex; 57 / 2.24 square	36 - 100	665 / 26.18	244 / 9.60	71 / 157	S4 100 - 600
3500MAX	65 / 2.55 round	2" hex; 57 / 2.24 square	42 - 90	665 / 26.18	244 / 9.60	73 / 161	S4 100 - 750
4500MAX	65 / 2.55 round	2" hex; 57 / 2.24 square	43 - 81	665 / 26.18	244 / 9.60	75 / 166	S4 100 - 900

Standard package consists of: earth drill, adapter frame (depending on choice)

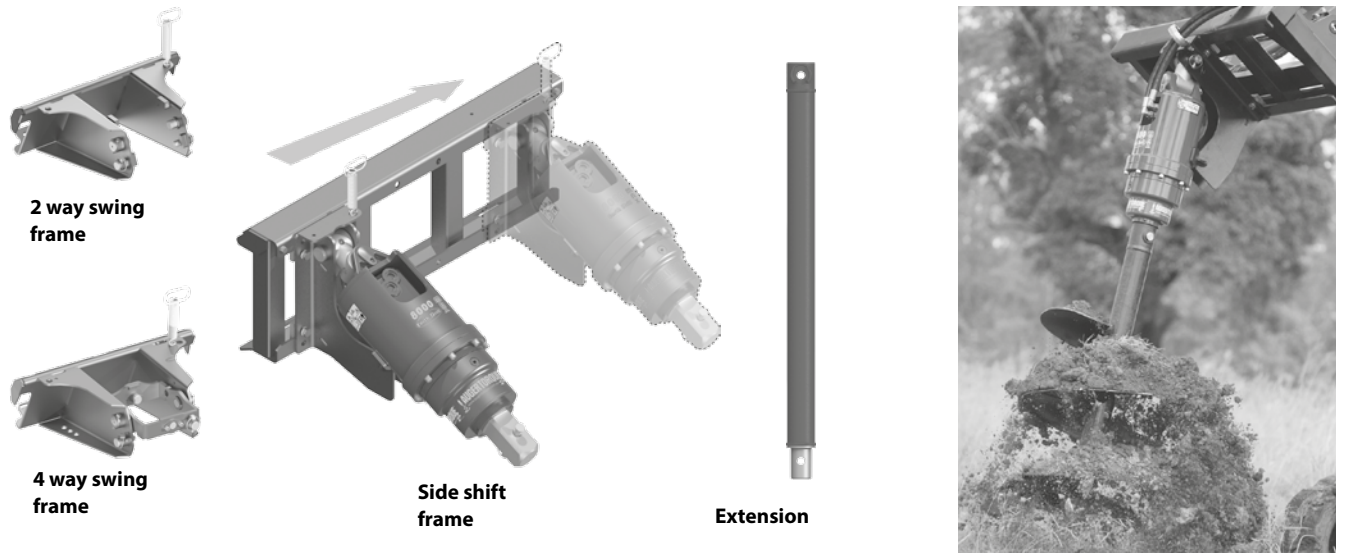
Accessories

Type	Description
S4 Extension 500	extension suitable for earth drills ML1500 to 4500MAX and S4 augers – 500 mm / 19.68 in length
S4 Extension 800	extension suitable for earth drills ML1500 to 4500MAX and S4 augers – 800 mm / 31.49 in length
S4 Extension 1000	extension suitable for earth drills ML1500 to 4500MAX and S4 augers – 1000 mm / 39.37 in length
S4 Extension 1200	extension suitable for earth drills ML1500 to 4500MAX and S4 augers – 1200 mm / 47.24 in length
2 way swing frame	for earth drill types ML1500 to ML2500
4 way swing frame	for earth drill types ML1500 to ML2500
Fixed centre frame	for earth drill types 3000MAX to 4500MAX
Side shift frame	for earth drill types 3000MAX to 4500MAX

Technical Details

Type:	ML1500	ML2000	ML2500	3000MAX (up to 50PS)	3500MAX (up to 65PS)	4500MAX (up to 80PS)
Oil pressure range:	70 - 205 bar 1016 - 3000 psi	70 - 240 bar 1016 - 3481 psi	70 - 240 bar 1016 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi	80 - 240 bar 1161 - 3481 psi
Oil flow range:	20 - 45 l/min 5 - 13 GPM	25 - 57 l/min 6 - 15 GPM	27 - 65 l/min 7 - 17 GPM	27 - 75 l/min 7 - 20 GPM	40 - 85 l/min 10 - 22.45 GPM	50 - 95 l/min 13 - 25.09 GPM
Torque range:	511 - 1496 Nm 376 - 1103 ft.lbs.	639 - 2190 Nm 471 - 1615 ft.lbs.	830 - 2847 Nm 612 - 2099 ft.lbs.	959 - 2877 Nm 707 - 2121 ft.lbs.	1205 - 3614 Nm 888 - 2665 ft.lbs.	1500 - 4499 Nm 1106 - 3318 ft.lbs.

Pictures



Earth Drills for High Flow Skidsteer Loaders & Telehandlers

5500MAX / 7000 /
7000MAX / 8000MAX

The robust earth drills for high flow skidsteer loaders and telehandlers from 4,5t / 9900 lbs to 8t / 17600 lbs operating weight are an economical and customized solution for earth drills e.g. for fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- Non Dislodgement Shaft (NDS) for more safety and lower down times, because this unique construction prevents the output shaft from dislodgement.
- Pre-filled with a coloured gear oil. Not only is the use of a coloured oil a good indicator of correct service it also aids in identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature forged steel ears, these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- Easy access oil service points.



Earth Drills for High Flow Skidsteer Loaders & Telehandlers 5500MAX / 7000 / 7000MAX / 8000MAX

Type	Shaft standard (mm/in)	Shaft option	Speed range (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Suitable augers	Requirements of carrier machine
5500MAX	75 / 2.95 square	2,5" hex	30 - 87	780 / 30.70	269 / 10.59	108 / 238	S5 150 - 750	up to 100 PS; 4,5t - 7t / 9900 lbs - 15400 lbs
7000	75 / 2.95 square	2,5" hex	30 - 70	780 / 30.70	269 / 10.59	110 / 243	S5 150 - 900	up to 115 l/min / 30.38 GPM; 5t - 7t / 11000 lbs - 15400 lbs
7000MAX	75 / 2.95 square	2,5" hex	36 - 81	780 / 30.70	269 / 10.59	112 / 247	S5 150 - 900	up to 135 l/min / 35.66 GPM; 5t - 8t / 11000 lbs - 17600 lbs
8000MAX	75 / 2.95 square	2,5" hex	33 - 70	780 / 30.70	269 / 10.59	116 / 260	S5 150 - 1200	up to 150 l/min / 39.63 GPM

Standard package consists of: earth drill, adapter frame (depending on choice)

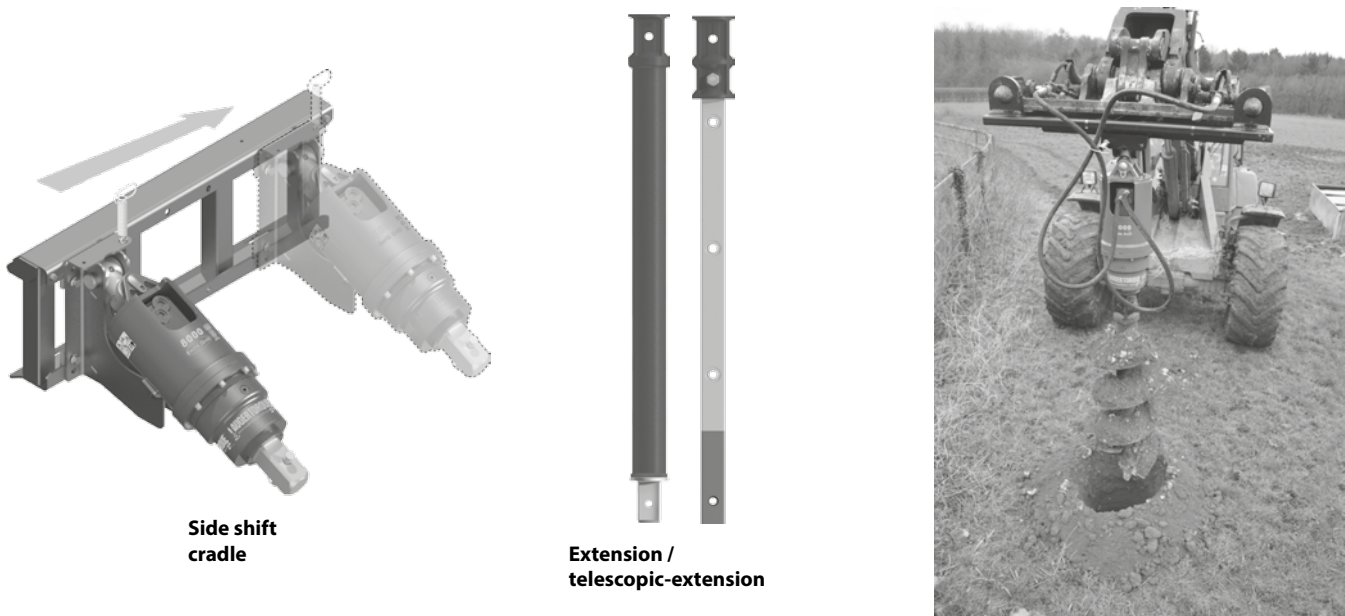
Accessories

Type	Description
S5 Extension 1000	extension suitable for earth drills 5500MAX to 8000MAX and S5 augers – 1000 mm / 39.37 in length
S5 Extension 1500	extension suitable for earth drills 5500MAX to 8000MAX and S5 augers – 1500 mm / 59.05 in length
S5 Extension 2000	extension suitable for earth drills 5500MAX to 8000MAX and S5 augers – 2000 mm / 78.74 in length
S5 Telescopic-extension 1500	telescopic-extension suitable for earth drills 5500MAX to 8000MAX and S5 augers – 1500 mm / 59.05 in length
S5 Telescopic-extension 2000	telescopic-extension suitable for earth drills 5500MAX to 8000MAX and S5 augers – 2000 mm / 78.74 in length
Fixed centre cradle	for earth drill types 5500MAX to 8000MAX
Side shift cradle	for earth drill types 5500MAX to 8000MAX

Technical Details

Type:	5500MAX	7000	7000MAX	8000MAX
Oil pressure range:	80 - 260 bar 1161 - 3771 psi	80 - 260 bar 1161 - 3771 psi	80 - 260 bar 1161 - 3771 psi	80 - 240 bar 1161 - 3481 psi
Oil flow range:	40 - 115 l/min 10 - 30 GPM	50 - 115 l/min 13 - 30 GPM	60 - 135 l/min 15 - 35 GPM	70 - 150 l/min 18 - 40 GPM
Torque range:	1685 - 5477 Nm 1242 - 4039 ft.lbs.	2098 - 6819 Nm 1547 - 5029 ft.lbs.	2133 - 6931 Nm 1573 - 5111 ft.lbs.	2717 - 8152 Nm 2003 - 6012 ft.lbs.

Pictures



AUGERS

TELESCOPIC EXTENSION

The use of a telescopic extension speeds up the process for drilling an extended depth hole. As the telescopic extension is stored inside the auger, storage space is reduced to a minimum. In addition to the standard fixed length extension, Auger Torque produces a range of telescopic extensions for the S5 and PA ranges.

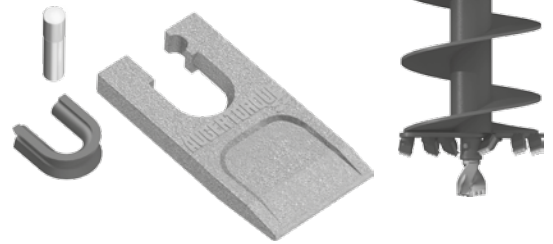
CONSTANT SPIRAL TOOTH CONFIGURATION

In addition to the "constant spiral tooth configuration" the angle of the tooth holder has also been considered. By optimizing the angle of cut, spoil is directed into the path of the auger flighting in a more efficient way.



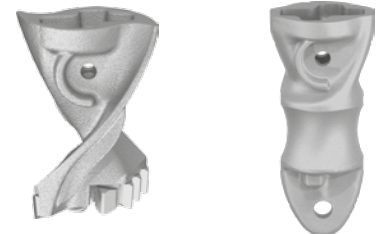
CHANGEABLE WEAR PARTS

Shock Lock™ Augers feature tooth holders which can take both earth and tungsten teeth. Interchangeable pilots allow for differing ground conditions. Rock teeth with cone locking.



PILOTS & EXTENSIONS

Earth-, tungsten-, extra dig- und rock-pilots available. Tough forged construction, easy fitting. Pilot extensions allow the auger to hold its axis accurately in tough ground conditions. Improves performance on sloping ground.



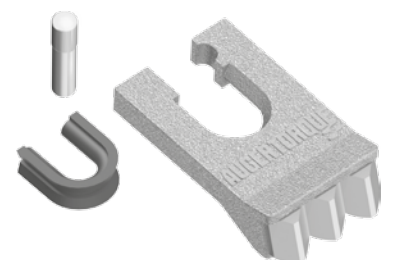
SHALLOW PITCH FLIGHTS

Piling industry technology. Holds earth on flights on removal. Most efficient ratio between quantity of earth removed and speed of operation.



PATENTED SHOCK LOCK-SYSTEM

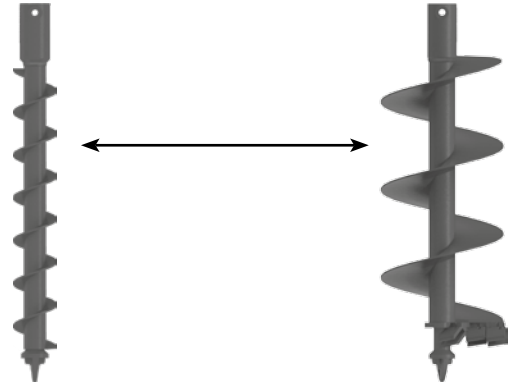
Incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss.



SHOCK LOCK™

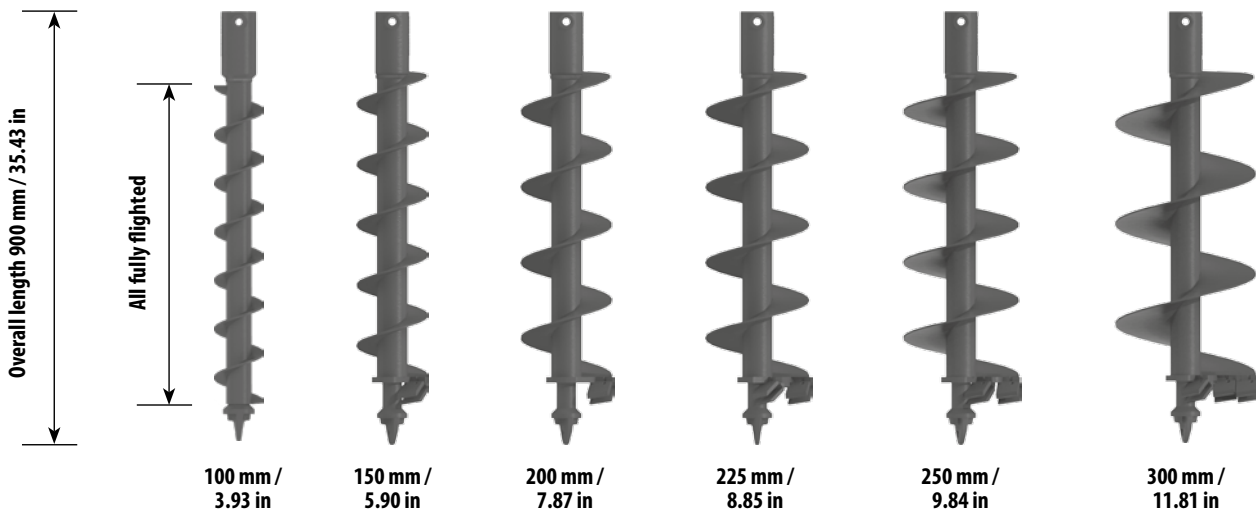
The S2 auger is perfectly matched to the earth drill 1200 and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for micro excavators from 0,75t / 1650 lbs to 1t / 2200 lbs operating weight.

- Higher productivity by constant spiral configuration and perfectly angled tooth holders.
- The changeable teeth and pilots of the S2-auger are best suited to soft grounds like earth or clay.
- Easy fitting of teeth and pilots.
- Patented Shock Lock-System: Incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss.



S2 Augers

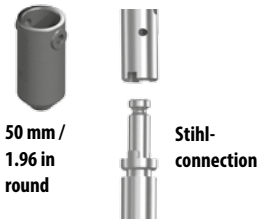
Types	Diameter (mm/in)	Overall length (mm/in)
S2 100	100 / 3.93	900 / 35.43
S2 150	150 / 5.90	900 / 35.43
S2 200	200 / 7.87	900 / 35.43
S2 225	225 / 8.85	900 / 35.43
S2 250	250 / 9.84	900 / 35.43
S2 300	300 / 11.81	900 / 35.43



Note: all augers are fitted with shock lock tooth holder. Overall length stated include fitted wear parts.

Hub & Tooth Options

Hub options



Earth wear parts

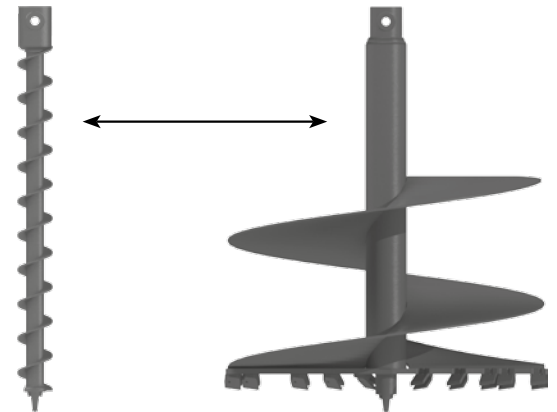


Extras



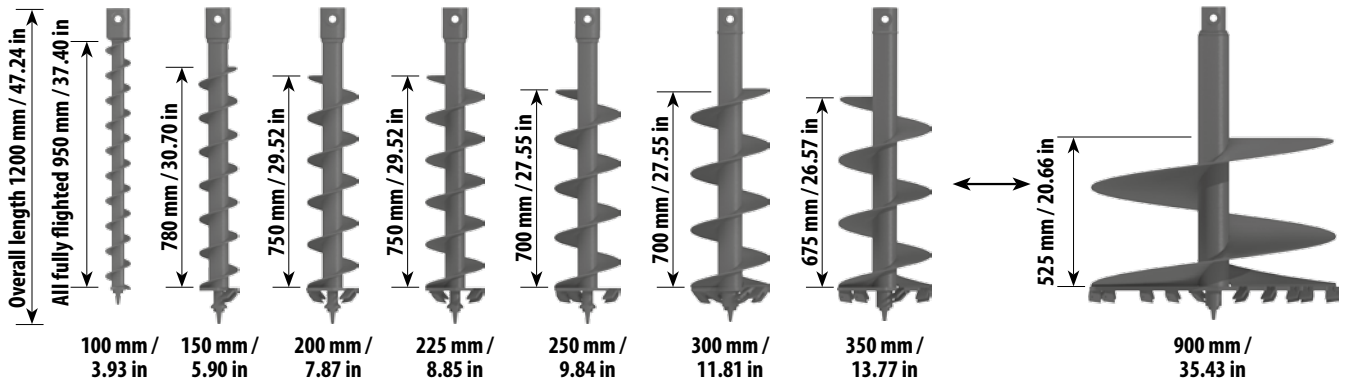
The S4 auger is perfectly matched to the earth drill 1200 and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for mini excavators from 1t / 2200 lbs to 5t / 11000 lbs operating weight, mini loaders, skidsteer loaders up to 80 PS and truck cranes up to 9 t/m .

- Higher productivity by constant spiral configuration and the perfectly angled tooth holder.
- Interchangeable pilots and teeth allow for differing ground conditions.
- Easy fitting of teeth and pilots.
- Patented Shock Lock-System: incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss.
- High flexibility thanks to different auger extensions.
- For earth drills: X1500, ML1500, X2000, ML2000, X2500, ML2500, 3000MAX, 3000TC, 3500MAX and 4500MAX.



S4 Augers (please specify pilot and tooth option when ordering)

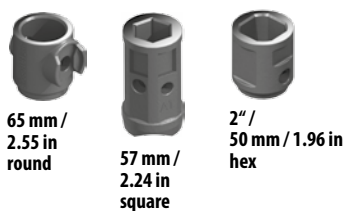
Type	Diameter (mm/in)	Spiral length (mm/in)	Overall length (mm/in)
S4 100	100 / 3.93	950 / 37.40	1200 / 47.24
S4 150	150 / 5.90	780 / 30.70	1200 / 47.24
S4 200	200 / 7.87	750 / 29.52	1200 / 47.24
S4 225	225 / 8.85	750 / 29.52	1200 / 47.24
S4 250	250 / 9.84	700 / 27.55	1200 / 47.24
S4 300	300 / 11.81	700 / 27.55	1200 / 47.24
S4 350	350 / 13.77	675 / 26.57	1200 / 47.24
S4 375	375 / 14.76	675 / 26.57	1200 / 47.24
S4 400	400 / 15.74	625 / 24.60	1200 / 47.24
S4 450	450 / 17.71	625 / 24.60	1200 / 47.24
S4 500	500 / 19.68	625 / 24.60	1200 / 47.24
S4 550	550 / 21.65	600 / 23.62	1200 / 47.24
S4 600	600 / 23.62	600 / 23.62	1200 / 47.24
S4 700	700 / 27.55	525 / 20.66	1200 / 47.24
S4 750	750 / 29.52	525 / 20.66	1200 / 47.24
S4 800	800 / 31.49	525 / 20.66	1200 / 47.24
S4 900	900 / 35.43	525 / 20.66	1200 / 47.24



Note: all augers are fitted with shock lock tooth holder. The use of rock teeth depends on the rock tooth type of the auger. Overall length stated includes fitted wear parts.

Hub & Tooth Options

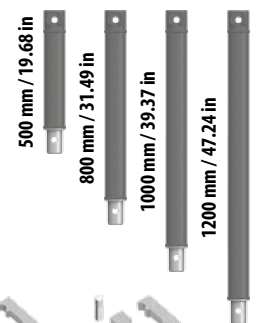
Hub options



Extras



S4 Extensions



Earth wear parts

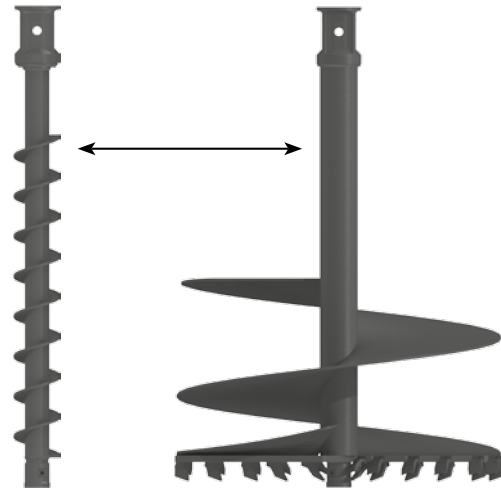


Tungsten wear parts



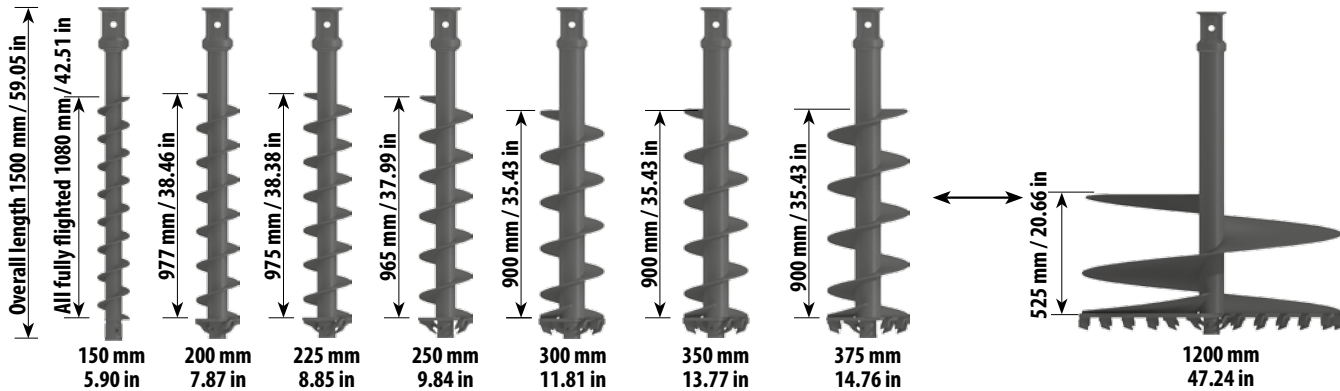
The S5 auger is perfectly matched to the corresponding earth drills and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for excavators from 4,5t / 9900 lbs to 8t / 17600 lbs operating weight, telehandlers, high flow skidsteer loaders and truck cranes from 9 t/m up to 18 t/m.

- Higher productivity by constant spiral configuration and the perfectly angled tooth holder.
- Interchangeable pilots and teeth allow for differing ground conditions.
- Easy fitting of teeth and pilots.
- Patented Shock Lock-System: incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss.
- High flexibility thanks to different auger extensions and telescopic extensions.
- For earth drills: 5000, 5500MAX, 5000TC, 7000, 7000MAX, 7000TC and 8000MAX.



S5 Augers (please specify pilot and tooth option when ordering)

Type	Diameter (mm/in)	Spiral length (mm/in)	Overall length (mm/in)
S5 150	150 / 5.90	1080 / 42.51	1500 / 59.05
S5 200	200 / 7.87	977 / 38.46	1500 / 59.05
S5 225	225 / 8.85	975 / 38.38	1500 / 59.05
S5 250	250 / 9.84	965 / 37.99	1500 / 59.05
S5 300	300 / 11.81	900 / 35.43	1500 / 59.05
S5 350	350 / 13.77	900 / 35.43	1500 / 59.05
S5 375	375 / 14.76	900 / 35.43	1500 / 59.05
S5 400	400 / 15.74	875 / 34.44	1500 / 59.05
S5 450	450 / 17.71	750 / 29.52	1500 / 59.05
S5 500	500 / 19.68	750 / 29.52	1500 / 59.05
S5 550	550 / 21.65	750 / 29.52	1500 / 59.05
S5 600	600 / 23.62	750 / 29.52	1500 / 59.05
S5 700	700 / 27.55	700 / 27.55	1500 / 59.05
S5 750	750 / 29.52	700 / 27.55	1500 / 59.05
S5 800	800 / 31.49	700 / 27.55	1500 / 59.05
S5 900	900 / 35.43	700 / 27.55	1500 / 59.05
S5 1000	1000 / 39.37	525 / 20.66	1500 / 59.05
S5 1200	1200 / 47.24	525 / 20.66	1500 / 59.05



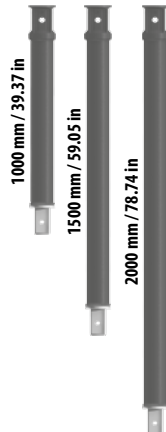
Note: all augers are fitted with shock lock tooth holder. The use of rock teeth depends on the rock tooth type of the auger. Overall length stated includes fitted wear parts.

Hub & Tooth Options

Hub options



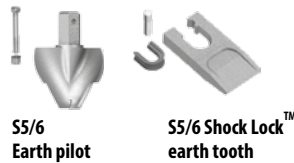
S5 Extensions



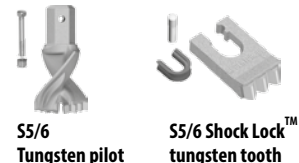
S5 Telescopic extensions



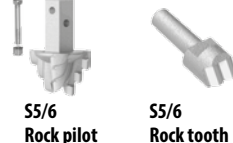
Earth wear parts



Tungsten wear parts



Rock wear parts

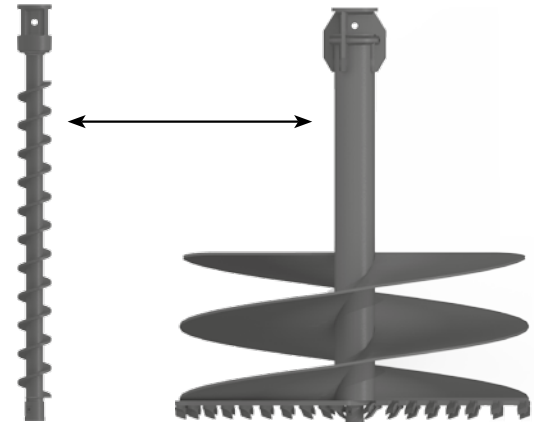


Extras



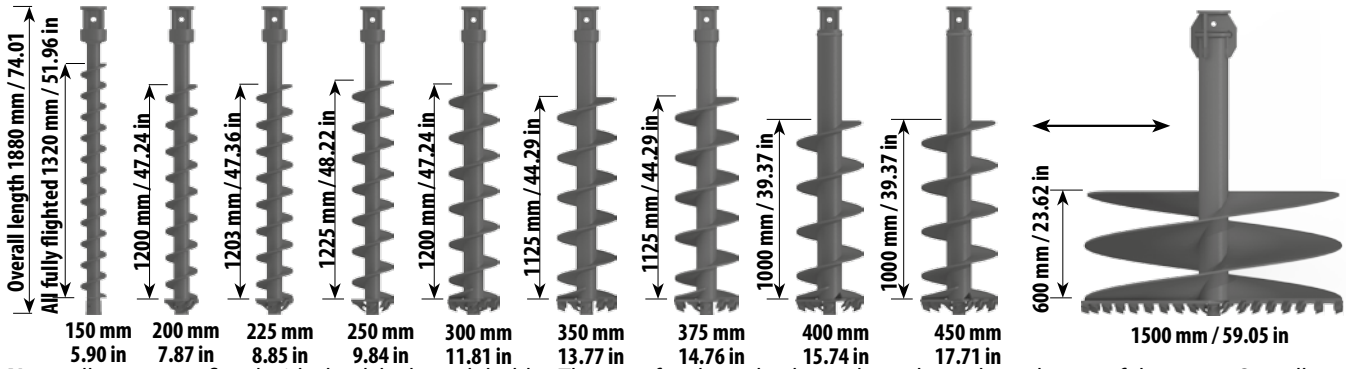
The S6 auger is perfectly matched to the corresponding earth drills and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for excavators from 8t / 17600 lbs to 22t / 48400 lbs operating weight and backhoes.

- Higher productivity by constant spiral configuration and the perfectly angled tooth holder.
- Interchangeable pilots and teeth allow for differing ground conditions.
- Easy fitting of teeth and pilots.
- Patented Shock Lock-System: Incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss.
- High flexibility thanks to different auger extensions and telescopic extensions.
- For earth drills: 10000, 12000, 12000MAX, 17000MAX, 15000, 15000MAX, 20000MAX and 25000MAX.




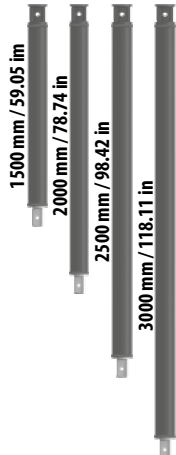

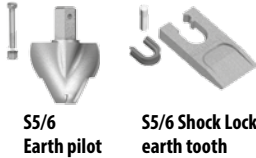

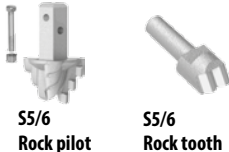

S6 Augers (larger diameter on request; please specify the pilot and tooth choice when ordering)

Type	Diameter (mm/in)	All fully flighted (mm/in)	Overall length (mm/in)
S6 150	150 / 5.90	1320 / 51.96	1880 / 74.01
S6 200	200 / 7.87	1200 / 47.24	1880 / 74.01
S6 225	225 / 8.85	1203 / 47.36	1880 / 74.01
S6 250	250 / 9.84	1225 / 48.22	1880 / 74.01
S6 300	300 / 11.81	1200 / 47.24	1880 / 74.01
S6 350	350 / 13.77	1125 / 44.29	1880 / 74.01
S6 375	375 / 14.76	1125 / 44.29	1880 / 74.01
S6 400	400 / 15.74	1000 / 39.37	1880 / 74.01
S6 450	450 / 17.71	1000 / 39.37	1880 / 74.01
S6 500	500 / 19.68	1000 / 39.37	1880 / 74.01
S6 600	600 / 23.62	900 / 35.43	1880 / 74.01
S6 700	700 / 27.55	875 / 34.44	1880 / 74.01
S6 750	750 / 29.52	875 / 34.44	1880 / 74.01
S6 800	800 / 31.49	875 / 34.44	1880 / 74.01
S6 900	900 / 35.43	875 / 34.44	1880 / 74.01
S6 1000	1000 / 39.37	700 / 27.55	1880 / 74.01
S6 1200	1200 / 47.24	600 / 23.62	1880 / 74.01
S6 1500	1500 / 59.05	600 / 23.62	1880 / 74.01



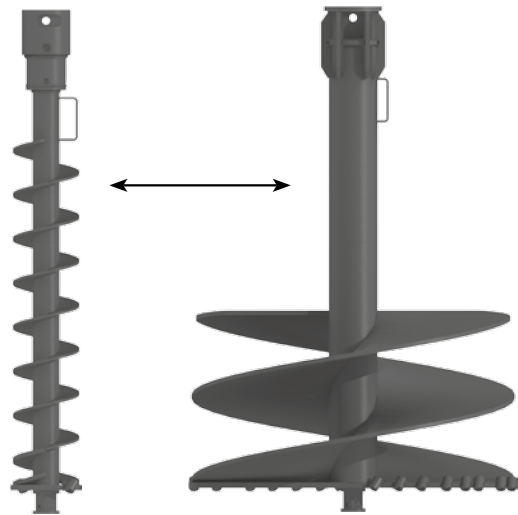
Note: all augers are fitted with shock lock tooth holder. The use of rock teeth depends on the rock tooth type of the auger. Overall length stated include fitted wear parts.

Hub & Tooth Options

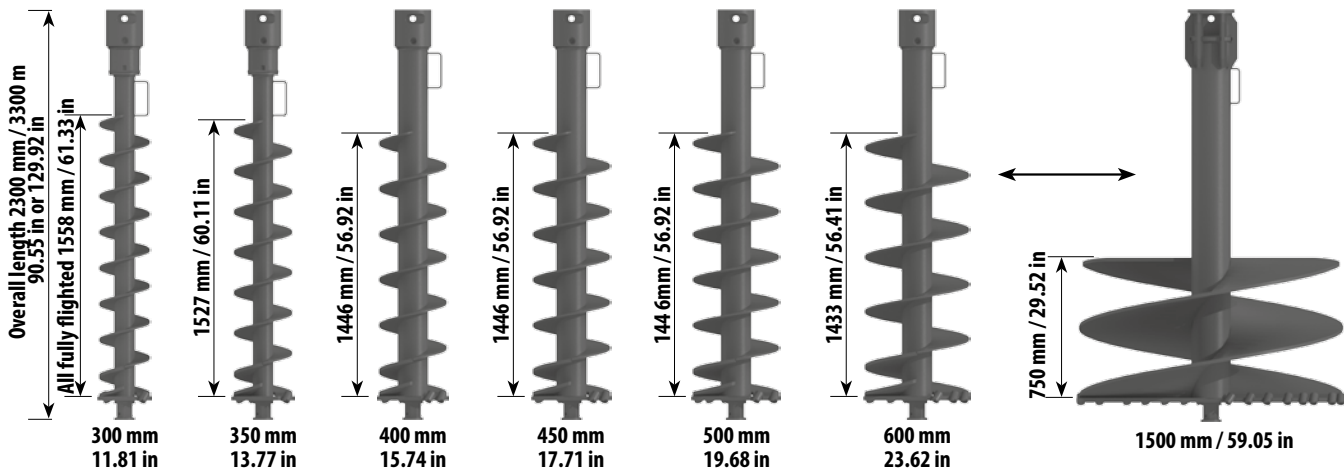
<p>Hub option</p>  <p>75 mm 2.95 in square</p>	<p>S6 extensions</p>  <p>1500 mm / 59.05 in 2000 mm / 78.74 in 2500 mm / 98.42 in 3000 mm / 118.11 in</p>	<p>S6 telescopic extensions</p>  <p>1500 mm / 59.05 in 2000 mm / 78.74 in</p>	<p>Earth wear parts</p>  <p>S5/6 Earth pilot S5/6 Shock Lock™ earth tooth</p>	<p>Tungsten wear parts</p>  <p>S5/6 Tungsten pilot S5/6 Shock Lock™ tungsten tooth</p>
			<p>Rock wear parts</p>  <p>S5/6 Rock pilot S5/6 Rock tooth</p>	<p>Extras</p>  <p>Pin & clip 57 mm / 2.24 in / 2.95 in square S5/6 Shock Lock™ tooth holder S5/6 Rock tooth holder S5/6 Drive socket 1 3/4" hex</p>

The PA auger is perfectly matched to the corresponding earth drills and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for excavators from 17t / 37400 lbs to 45t / 99000 lbs operating weight.

- Higher productivity by constant spiral configuration and the perfectly angled tooth holder.
- Interchangeable pilots and teeth allow for differing ground conditions.
- Easy fitting of teeth and pilots.
- High flexibility thanks to different auger extensions and telescopic extensions.
- Augers in two overall lengths available: 2300 mm / 90.55 in or 3300 mm / 129.92 in.
- For earth drills: 30000, 30000MAX, 35000MAX, 40000, 42000MAX and 50000MAX.



Type	Diameter (mm/in)	All fully flighted (mm/in)	Overall length (mm/in)
PA 300	300 / 11.81	1558 / 61.33	2300 or 3300 / 90.55 or 129.92
PA 350	350 / 13.77	1527 / 60.11	2300 or 3300 / 90.55 or 129.92
PA 400	400 / 15.74	1446 / 56.92	2300 or 3300 / 90.55 or 129.92
PA 450	450 / 17.71	1446 / 56.92	2300 or 3300 / 90.55 or 129.92
PA 500	500 / 19.68	1446 / 56.92	2300 or 3300 / 90.55 or 129.92
PA 600	600 / 23.62	1433 / 56.41	2300 or 3300 / 90.55 or 129.92
PA 700	700 / 27.55	1321 / 52.00	2300 or 3300 / 90.55 or 129.92
PA 750	750 / 29.52	1321 / 52.00	2300 or 3300 / 90.55 or 129.92
PA 800	800 / 31.49	1321 / 52.00	2300 or 3300 / 90.55 or 129.92
PA 900	900 / 35.43	1321 / 52.00	2300 or 3300 / 90.55 or 129.92
PA 1000	1000 / 39.37	971 / 38.22	2300 or 3300 / 90.55 or 129.92
PA 1200	1200 / 47.24	908 / 35.74	2300 or 3300 / 90.55 or 129.92
PA 1500	1500 / 59.05	750 / 29.52	2300 or 3300 / 90.55 or 129.92



Note: all augers are fitted with shock lock tooth holder. The use of rock teeth depends on the rock tooth type of the auger. Overall length stated include fitted wear parts.

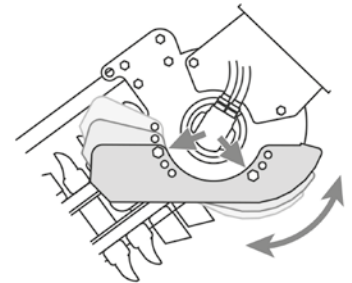
Hub & Tooth Options

<p>Hub option</p> <p>110 mm 4.33 in square</p> <p>100 mm 3.93 in square</p> <p>130 mm 5.11 in square</p>	<p>PA extensions</p> <p>2000 mm / 78.74 in</p> <p>3000 mm / 118.11 in</p>	<p>PA telescopic extensions</p> <p>2000 mm / 78.74 in</p> <p>3000 mm / 118.11 in</p>	<p>Earth wear parts</p> <p>PA Earth pilot</p> <p>PA Earth tooth</p>	<p>Tungsten wear parts</p> <p>PA Rock pilot*</p> <p>PA Rock tooth</p> <p><small>*The PA rock pilot is available in single parts or as a complete assembly.</small></p>
Extras				
		<p>Pin & clip 110 mm / 4.33 in square</p>	<p>PA Rock tooth holder</p>	<p>PA Drive socket</p>

TRENCHERS

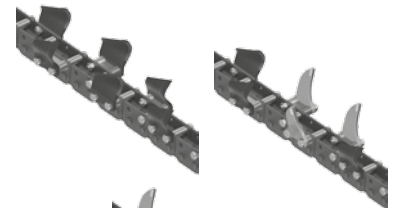
PERFECT ADJUSTMENT

Different versions specifically machted to machine and requirement. The adjustable depth control allows to fix the trench depth.



FLEXIBILITY

Variable trench depths up to 1500 mm / 59.05 in and trench widths up to 350 mm / 13.77 in for each requirement. Different chain options available: ,earth' for soft grounds, ,combination' for mixed grounds and ,tungsten' for hard or frozen grounds.



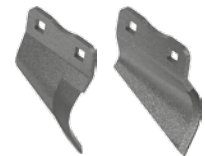
LONG SERVICE LIFE

High quality hydraulic motors reinforced with a heavy duty planetary gearbox. Easy fitting of wear parts.



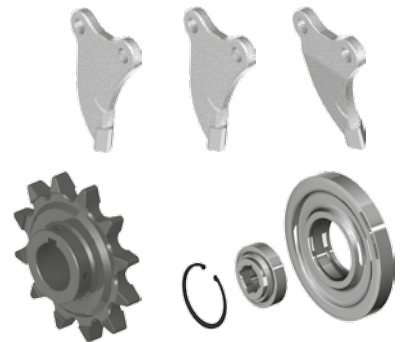
INTERCHANGEABLE WEAR PARTS

Earth, tungsten and boom spare parts available. Easy change on site.



SOPHISTICATED CONSTRUCTION

You will be blown away by the amount of dirt being removed from the trench and neatly placed off to one side by the single sided auger. You can thus work easily and safely and enjoy an effortless backfilling.



MULTIFUNCTIONAL TASKS

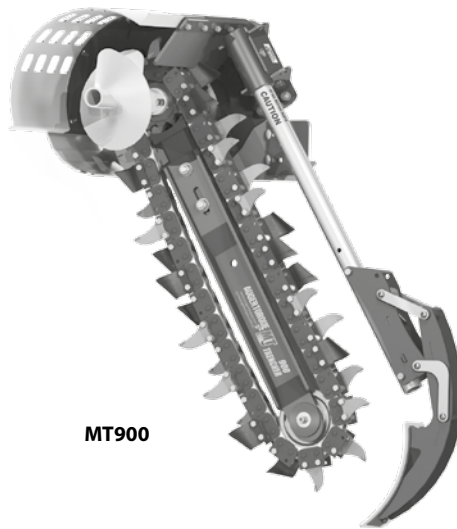
Perfect tools to build ground heat pump systems, drainages and irrigations. Also for placing gas or water pipes, electro and fibre optic cables, and for hedge or tree planting.



Trenchers for Mini Excavators and Loaders

MT600 / MT900

The robust trenchers MT600 and MT900 for mini excavators with up to 5t / 11000 lbs operating weight, mini loaders and skidsteer loaders make your work easy and fast e.g. when placing gas and waterpipes, electro or fibre optic cables, for drainages or irrigations, etc..



- Variable trench widths from 100 - 300 mm / 3.93 - 11.81 in possible.
- Adjustable depth control allows for 3 different depth settings.
- Different mounting options available: side shift frame, mini loader frame and excavator hitch.
- Wear parts easily exchanged on site.
- Dirt being removed from the trench is placed off to one side due to the single sided auger - effortless backfilling.
- Three different chain options available: earth, combination and tungsten.

Trenchers for Mini Excavators, Skidsteer and Mini Loaders MT600 and MT900

Type	Operating weight excavator (t/lbs)	Unit width (mm/in)	Unit height (mm/in)	Unit length (mm/in)	Cutting width range (mm/in)	Trench depth setting* A / B / C (mm/in)
MT600	2,5 - 4,5 / 5500 - 9900	850 / 33.46	736 / 28.97	1465 / 57.67	100 - 300 / 3.93 - 11.81	300/450/600 / 11.81/17.71/23.62
MT900	3 - 5 / 6600 - 11000	850 / 33.46	736 / 28.97	1800 / 70.86	100 - 300 / 3.93 - 11.81	600/750/900 / 23.62/29.52/35.43

* drawings below

Standard package consists of: trencher, depth control, lateral auger, hitch (depending on choice), chain with wear parts (depending on choice)

Chain Options

Type	Description
MT600 Earth	fitted with earth teeth for soft grounds
MT600 Combination	fitted with earth and tungsten teeth for mixed grounds
MT600 Tungsten	fitted with tungsten teeth for hard and frozen grounds
MT900 Earth	fitted with earth teeth for soft grounds
MT900 Combination	fitted with earth and tungsten teeth for mixed grounds
MT900 Tungsten	fitted with tungsten teeth for hard and frozen grounds

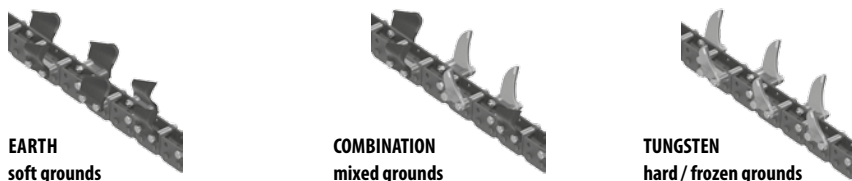
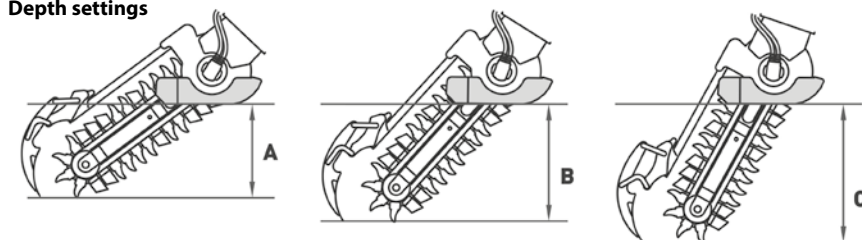
Note: all chain options available with widths 100/150/200/250/300 mm / 3.93/5.90/7.87/9.84/11.81 in

Technical Details

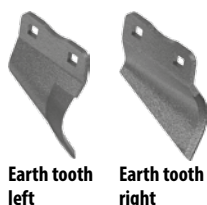
Type:	MT600	MT900
Oil pressure range:	160 - 240 bar / 2304 - 3456 psi	180 - 240 bar / 2592 - 3456 psi
Oil flow range:	35 - 65 l/min / 9.24 - 17.17 GPM	45 - 80 l/min / 11.88 - 21.13 GPM

Pictures

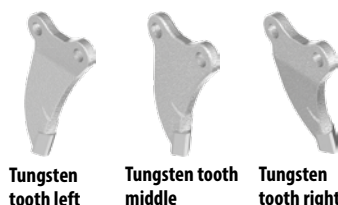
Depth settings



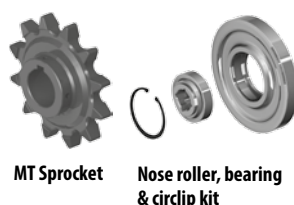
Earth wear parts



Tungsten wear parts



Boom wear parts



XHD900 / XHD1200 / XHD1500

Trenchers for Excavator & Skidsteers

The robust trenchers for excavators with up to 10t / 22000 lbs operating weight and skidsteer loaders make your work easy and fast e.g. when placing gas and waterpipes, electro or fibre optic cables, for drainages or irrigations, etc..

- Variable trench widths from 150 - 350 mm / 5.90 - 13.77 in possible.
- Adjustable depth control allows for 3 different depth settings.
- Different mounting options available: side shift frame and excavator hitch.
- Wear parts easily exchanged on site.
- Dirt being removed from the trench is placed off to one side due to the single sided auger - effortless backfilling.
- Three different chain options available: earth, combination and tungsten.



XHD1500

Trenchers for Excavators and Skidsteers XHD900 / XHD1200 / XHD1500

Type	Operating weight excavator (t/lbs)	Unit width (mm/in)	Unit height (mm/in)	Unit length (mm/in)	Cutting width range (mm/in)	Trench depth setting* A / B / C (mm/in)
XHD900	5 - 7,5 / 11000 - 16500	1018 / 40.07	808 / 31.81	1962 / 77.24	150 - 350 / 5.90 - 13.77	600/750/900 / 23.62/29.52/35.43
XHD1200	5 - 7,5 / 11000 - 16500	1018 / 40.07	808 / 31.81	2262 / 89.05	150 - 300 / 5.90 - 11.81	800/1000/1200 / 31.49/39.37/47.24
XHD1500	5 - 10 / 11000 - 22000	1018 / 40.07	808 / 31.81	2562 / 100.86	150 - 200 / 5.90 - 7.87	1000/1250/1500 / 39.37/49.21/59.05

* drawings below

Standard package consists of: trencher, depth control, lateral auger, hitch (depending on choice), chain with wear parts (depending on choice)

Chain Options

Type	Description
XHD900 Earth	fitted with earth teeth for soft grounds
XHD900 Combination	fitted with earth and tungsten teeth for mixed grounds
XHD900 Tungsten	fitted with tungsten teeth for hard and frozen grounds
XHD1200 Earth	fitted with earth teeth for soft grounds
XHD1200 Combination	fitted with earth and tungsten teeth for mixed grounds
XHD1200 Tungsten	fitted with tungsten teeth for hard and frozen grounds
XHD1500 Earth	fitted with earth teeth for soft grounds
XHD1500 Combination	fitted with earth and tungsten teeth for mixed grounds
XHD1500 Tungsten	fitted with tungsten teeth for hard and frozen grounds

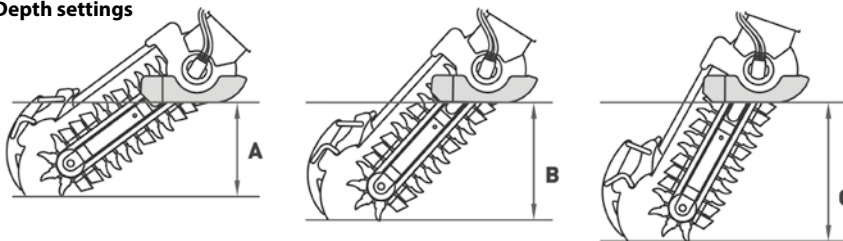
Note: all chain options available in widths 150/200/250/300/350 mm / 5.90/7.87/9.84/11.81/13.77 in

Technical Details

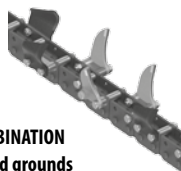
Type:	XHD900	XHD1200	XHD1500
Oil pressure range:	180 - 240 bar / 2592 - 3456 psi	180 - 240 bar / 2592 - 3456 psi	180 - 240 bar / 2592 - 3456 psi
Oil flow range:	60 - 95 l/min / 15.85 - 25.09 GPM	70 - 115 l/min / 18.49 - 30.38 GPM	80 - 135 l/min / 21.13 - 35.66 GPM

Pictures

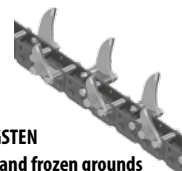
Depth settings



EARTH
soft grounds



COMBINATION
mixed grounds



TUNGSTEN
hard and frozen grounds



Earth tooth left Earth tooth right



Tungsten tooth left Tungsten tooth middle Tungsten tooth right



XHD Sprocket Nose roller, bearing & Circlip kit



Stump Planers & Log Splitter

SP250 / SP350 / SP450

The robust stump planers for excavators up to 15t / 33000 lbs and skidsteers guarantee an efficient and clean removal of tree stumps. The robust stump planers are compatible to the most earth drills offered here.

The log splitter splits the logs quickly and effectively and is available for excavators, skidsteer loaders and backhoes in combination with an earth drill.

Stump Planers:

- Variable diameters from 250 - 450 mm / 9.84 - 17.71 in available.
- Different hub options suitable to the respective earth drill available.
- The unique pilot is drilling into the tree stump and pulling down the planer unerringly.
- Due to the arrangement of the blades, a new cut is done at each turn.
- The tree stump is planed off to small and easy to clean splints.

Log Splitter:

- Pilot and splitter with self leading thread.
- Pilot made of tempered steel.



Stump Planers for Excavators and Skidsteers SP250 / SP350 / SP450

Type	Operating weight excavator (t/lbs)	Compatible to earth drills	Diameter (mm/in)	Length (mm/in)	Weight (kg/lbs)	Hub options (please specify when ordering)
SP250	1 - 5 / 2200 - 11000	X2500 - 4500 MAX	250 / 9.84	635 / 25.00	25 / 55	65 mm / 2.55 in round / 2" hex
SP350*	4,5 - 8 / 9900 - 17600	5000 - 8000MAX	350 / 13.77	675 / 26.57	33 / 73	75 mm / 2.95 in square / 2,5" hex
SP450*	6 - 15 / 13200 - 33000	8000MAX - 15000MAX	450 / 17.71	850 / 33.46	52 / 114	75 mm / 2.95 in square / 2,5" hex

Standard package consists of: stump planer

* also suitable for skidsteers with high flow hydraulic

Log Splitter for Excavators and Skidsteers

Type

Log Splitter ----- NEW ----- NEW ----- NEW ----- DATAS COMING ----- NEW ----- NEW ----- NEW -----

Pictures



The unique pilot is drilling into the surface of the tree stump and pulling down the planer unerringly.



The cutters are trimming the stump with each turn and plane off the wood in splints.



After the planer has cut deeply enough, just change the position and redo until the stump is completely removed.



Log splitter



CM140 / CM180 Mixer Bowls for Excavators, Mini Loaders & Skidsteers

Fencing tasks on rough grounds often require to fix fence posts with cement that needs to be mixed in small quantities, however, rough terrain can often also mean, that a traditional mixer cannot be accessed. The drill/mix solution of the CM model is the perfect solution here.

Applicable for excavators from 1t / 2200 lbs up to 7t / 15400 lbs operating weight.

- Quickly and easily attached to the earth drills.
- Easily exchangeable by earth drills after mixing.
- Available volumes 140 l / 0.18 c.y. or 180 l / 0.23 c.y..
- Easy use on excavator with earth drill and hitch cradle.
- When used on skidsteers, the mixer bowl requires the use of a mixer cradle that can be mounted easily to any of our skidsteer loader frames.

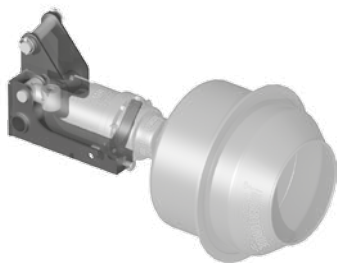


Mixer Bowls for Excavators, Mini Loaders & Skidsteers CM140 / CM180

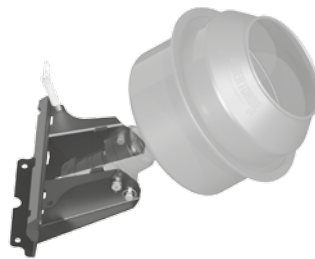
Type	Operating weight excavator (t/lbs)	Compatible to earth drills	Bowl capacity (liters/c.y.)	Bowl depth (mm/in)	Bowl diameter (mm/in)	Weight (kg/lbs)
CM140	1 - 3 / 2200 - 6600	X2000 - 3000MAX	140 / 0.18	600 / 23.62	675 / 26.57	28 / 61
CM180	3 - 7 / 6600 - 15400	3000MAX - 7000MAX	180 / 0.23	690 / 27.16	724 / 28.50	33 / 72

Standard package consists of: mixer bowl

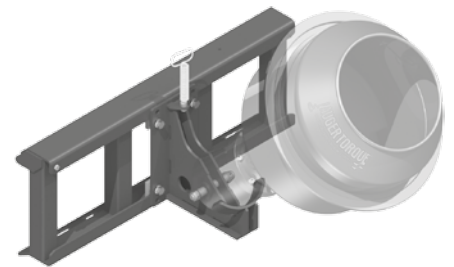
Pictures



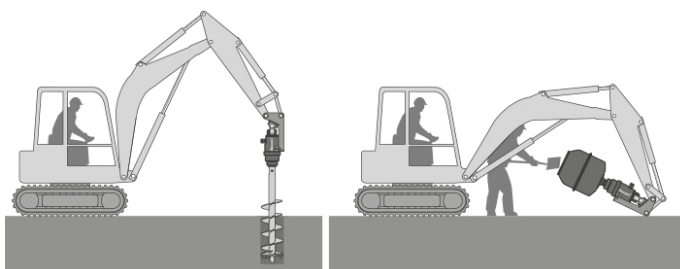
Hitch with cradle and two pins for excavator mounting



Mounting frame for mini loaders



Mounting frame for skidsteers with cradle



Pallet Forks / Sweeper Broom for Skidsteers

PF1500 / PF1800 /
Sweeper Broom

The handling of different materials on a working site requires the high flexibility of a skidsteer. Built for heavy duty tasks, the PF pallet forks are a MUST.

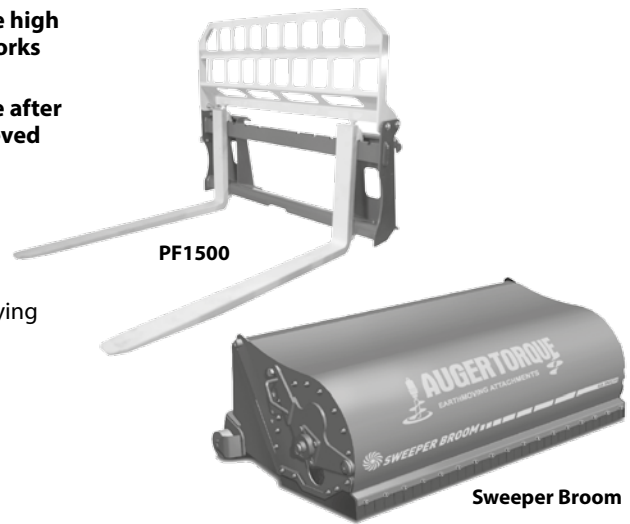
Often forgotten is the hard and time-consuming cleaning of a site after work. With a sweeper broom for skidsteers, that task can be achieved quickly and effectively.

PF-Series:

- Different models up to 2t / 4400 lbs load capacity.
- Fully adjustable tines with locking pins.
- Tines are fixed at the top and heel preventing bouncing while carrying loads.
- High visibility when loading and unloading.

Sweeper Broom:

- Cost-effective cleaning of large areas. Low-dust design.
- Material is collected in the mounted bucket.



Pallet Forks for Skidsteers PF1500 and PF1800

Type	Load capacity (kg/lbs)	Tine height (mm/in)	Mounted Height (mm/in)	Tine width (mm/in)	Mounted Width (mm/in)	Tine length (mm/in)	Mounted length (mm/in)	Weight (kg/lbs)
PF1500	1500 / 3300	550 / 21.65	930 / 36.61	80 / 3.14	1185 / 46.65	1070 / 42.12	1340 / 52.75	176 / 387
PF1800	1800 / 3960	550 / 21.65	930 / 36.61	100 / 3.93	1185 / 46.65	1220 / 48.03	1490 / 58.66	196 / 431

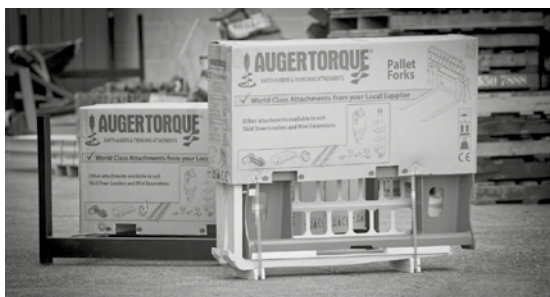
Standard package consists of: pallet fork with adjustable tines

Sweeper Broom for Skidsteers

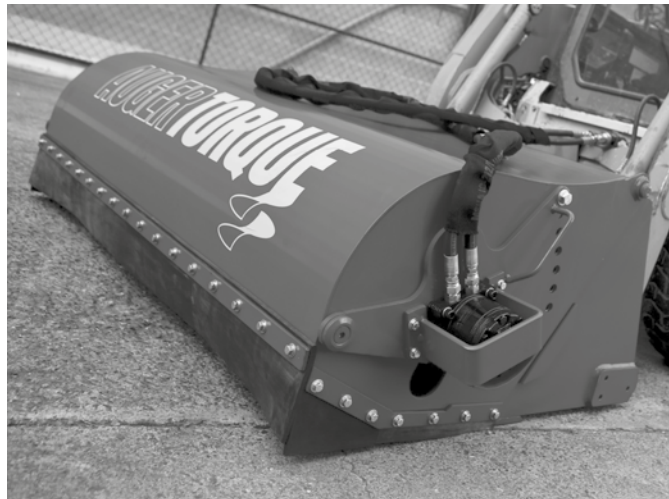
Type	Brush diameter (mm/in)	Unit width (mm/in)	Unit height (mm/in)	Unit length (mm/in)	Weight (kg/lbs)
Sweeper Broom	508 / 20.00	2000 / 78.74	640 / 25.19	1100 / 43.30	420 / 16.53

Pictures

Pallet fork



Sweeper broom

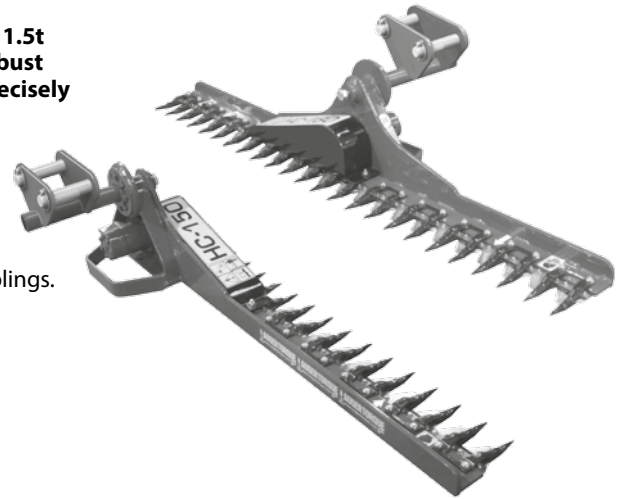


HC150 / HC180

Hedge Trimmer for Excavators

The HC hedge trimmers are perfectly adapted to excavators from 1.5t / 3300 lbs up to 8t / 17600 lbs operating weight. Thanks to the robust attachment, the hedges and bushes can be cut faster, more precisely and efficiently.

- High performance and easy maintenance.
- High quality blades - made in Germany.
- Robust and 'made to last'-design.
- Ready for work delivery - including hydraulic hoses and quick couplings.



Hedge Trimmers for Excavators HC150 / HC180

Type	Operating weight excavator (t/lbs)	Length (mm/in)
HC150	1,5 - 8 / 3300 - 17600	1500 / 59.05
HC180	1,5 - 8 / 3300 - 17600	1800 / 70.86

Standard package consists of: hedge trimmer, adapter, hydraulic hoses and quick couplings

Pictures



Torque Meter / Alignment Monitor



Torque meter TM60



Alignment monitor

Torque Meter

Applying the correct torque during the installation of screw piles is paramount to ensure the structure is safely secured. Receiving data of real-time applied torque which is accurate up to 99.7% for this critical procedure is made easy with this new auger torque device.

The torque meter is simply attached between the mounting bracket and the earth drill hood pin. The sophisticated sensors inside send data to a hand-held or cab-mounted PDA instantly, allowing operators to work with ultimate efficiency.

The device is able to measure torque values up to 250,000 Nm and the software can be installed to run from the customer's own laptop if preferred.

The electronic torque meter is ideally suited to the earth drills 17000 MAX to 25000 MAX; it also works with most of the other earth drills: 10000, 12000, 12000MAX, 15000, 15000MAX, 30000, 30000MAX, 35000MAX, 40000, 42000, 42000MAX and 50000MAX.

STANDARD SOFTWARE

Microsoft Office Mobile	Word Mobile	Excel Mobile	PowerPoint Mobile
Pocket OneNote	Outlook Mobile	Windows Media Player	Microsoft Pictures and Videos
Internet Explorer Mobile	Adobe Reader LE	Contacts / calendar	Calculator
Notes / Tasks	Online help		

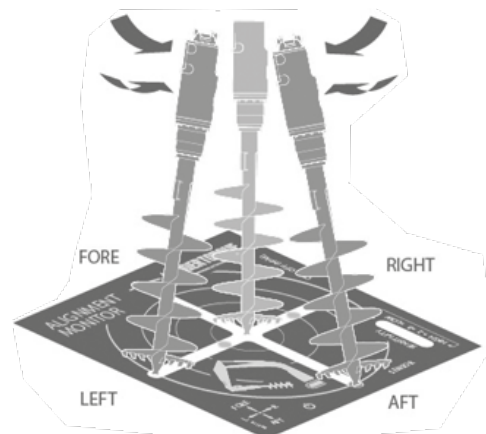
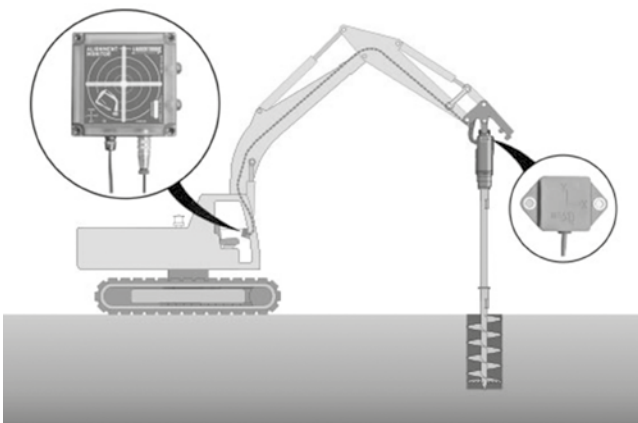
Alignment Monitor

At foundation drilling and screw piling a correct alignment is essential. From the drivers' cabin and at deeper drills it is not possible to see if the earth drill is still in a correct vertical position.

The alignment monitor has been developed especially to solve this known problem. Thanks to the sensor which is mounted to the earth drill and the display in the drivers' cabin, the operator can supervise the drilling procedur exactly and correct each deviation immediately.

The tool is compatible to all earth drill types and can be switched on and off. The compact as well bright LED-display can be installed easily to the drivers' cabine. The sensibility of the equipment can be fitted to the current application. Due to its water-resistance, the sensor is suitable for all weather conditions. 12V up to 24V operating range.

Pictures



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