



# PRODUCT GUIDE

EXPERIENCE THE AUGER TORQUE DIFFERENCE



ENGLISH  
ISSUE 14-01



Auger Torque USA



Auger Torque China



Auger Torque Europe



Auger Torque Australia

## A Customer-Driven Global Company

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.

Auger Torque's five manufacturing bases around the globe are busy satisfying the ever-growing demand for high-quality products in over seventy countries and on all seven continents.

**Auger Torque - A manufacturing company with Global distribution and dealer networks.**

## INDEX

EARTH DRILLS .....	8
AUGERS & WEAR PARTS .....	28
HARD ROCK AUGER .....	38
TRUCK CRANES & ROPE WIND HITCH .....	40
MAST-BASED DRILLING RIG .....	42
XHT SCREW PILE TORQUE HEADS .....	44
ALIGNMENT MONITOR .....	46
TORQUE MONITOR .....	47
TRENCHERS .....	48
SWEEPER BROOMS .....	54
PALLET FORKS .....	55
MIXER BOWLS .....	56
HEDGE TRIMMERS .....	57
MULCHERS .....	58
LOG SPLITTER .....	59
STUMP PLANERS .....	60



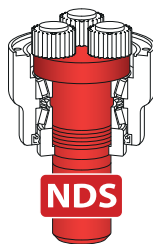
# Innovation and Special Features



## Robust Construction

### DURABILITY

- Manufactured from high grade materials and precision engineered components
- Designed to withstand extreme working conditions
- High grade synthetic gear oil used for extra protection and long service life



## Non-Dislodgement Shaft

### SECURITY

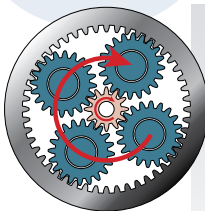
- Unique design
- Single piece drive shaft
- Lifetime warranty against shaft dislodgement



## Pilots

### TOUGHNESS & ACCURACY

- Earth, Tungsten, Extra Dig and Rock Pilots
- Tough forged construction
- Easy fitting



## Planetary Gearbox

### POWER

- Designed, manufactured and assembled by Auger Torque
- Torque amplified
- High efficiency
- Extreme durability



## Shallow Pitch Flights

### EFFICIENCY

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



## Pilot Extensions

### ACCURACY

- Allows an auger to hold its axis accurately in tough ground conditions
- Improves performance on sloping ground
- Simple fitting



## Telescopic Extensions

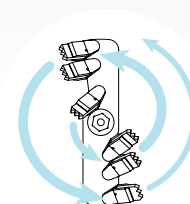
### ADAPTABILITY

- Improves efficiency for deep hole drilling
- Innovative design significantly reduces swap-over time
- Easy adjustment to 3 heights
- Available for S5, S6 and PA augers

## Constant Spiral Cut

### IMPROVED PRODUCTIVITY

- Fresh cut every revolution
- Tooth holders angled to direct spoil onto auger flights efficiently
- Spoil broken up thoroughly
- Avoids clogging







Sometimes it's the simple ideas that work best and Auger Torque has always led the industry with creative design. In a world where maximising profit is vital to any business, we believe that our range of high quality attachments will allow you to exploit the full potential of your existing plant.



### **Modular Cradle Hitch**

#### **INGENUITY**

- 2 hitches in 1
- Unique design converts a Double Pin Hitch into a Double Pin Cradle Hitch
- Stabilises the Earth Drill in transit



### **2 Way Valve Kits**

#### **FLEXIBILITY**

- Converts single acting hammer circuit into a 2 way auxiliary flow circuit



### **Pressure Relief Valve**

#### **SAFETY**

- Helps prevent overloading of the hydraulic circuit
- Protects the hydraulic motor

# Designed for Your Environment

## EARTH DRILLS

### Applications include:

- Fencing
- Landscaping
- Tree planting
- Well boring
- Foundation piles
- Screw pile installations
- Ground source heat pumps
- Pole and mast installations
- Road signage
- Sound barriers
- Exploration and research

## TRENCHERS

### Applications include:

- Drainage
- Irrigation
- Ground source heat pumps
- Fibre optic installations
- Electric cable installations
- Narrow strip foundations
- Gas and water piping



Our products incorporate many development features. The trench cleaner on our Trencher Attachments ensures a good clean cut with no residual spoil.

At Auger Torque we realise that one of the best ways to continually improve our extensive range of quality attachments is to not only listen to customer feedback but to put practical ideas into production. This policy of direct customer involvement has given us the reputation of being the specialists in the trenching and auger drive industry world-wide.



New products featuring the latest technology ensure that we are able to maximise your efficiency.



Quality is at the forefront of our philosophy.



Our R&D Test Facility puts our attachments through rigorous test procedures that exceed real-life demands.



All of our gearboxes use precision engineered components.



# SHOCK LOCK™

## Tooth Locking System

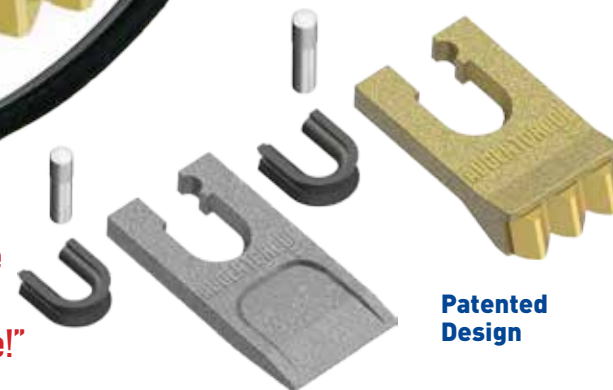
### Are you tired of losing your teeth down the hole?

With our patented **Shock Lock™** Tooth Locking System this is now a thing of the past. Using the **Shock Lock™** pin and rubber insert in our unique **Shock Lock™** tooth holders ensures your Auger teeth are safely locked in place and protected against shock fractures.

Replacing worn teeth is a breeze with this system, simply knock out the old pin with a standard hole punch and the tooth will slide out of the pocket with ease.

Acclaimed as the best system on the market you will never need to worry about fitting spare teeth due to loss again.

**"Don't leave  
your teeth  
down the hole!"**



International Patents:

British Patent: 2404935

European Patent: 1507061

German Patent: 60 2004 009 250-9

Australian Patent: 2004203825

Canadian Patent: 2478443

US Patent: 7383901

**Patented  
Design**

# EARTH DRILLS

## Features of our Earth Drills

### FORGED HOOD EARS

Standard with all Earth Drills in areas that we know will take a lot of strain. All hood pins are locked for extra safety making it impossible for the hood to detach from your hitch.

### HOSES & ADAPTORS

All Earth Drills come standard with high quality hoses and adaptors (excludes larger units. QRC's not included).

### HIGH QUALITY HYDRAULIC MOTORS

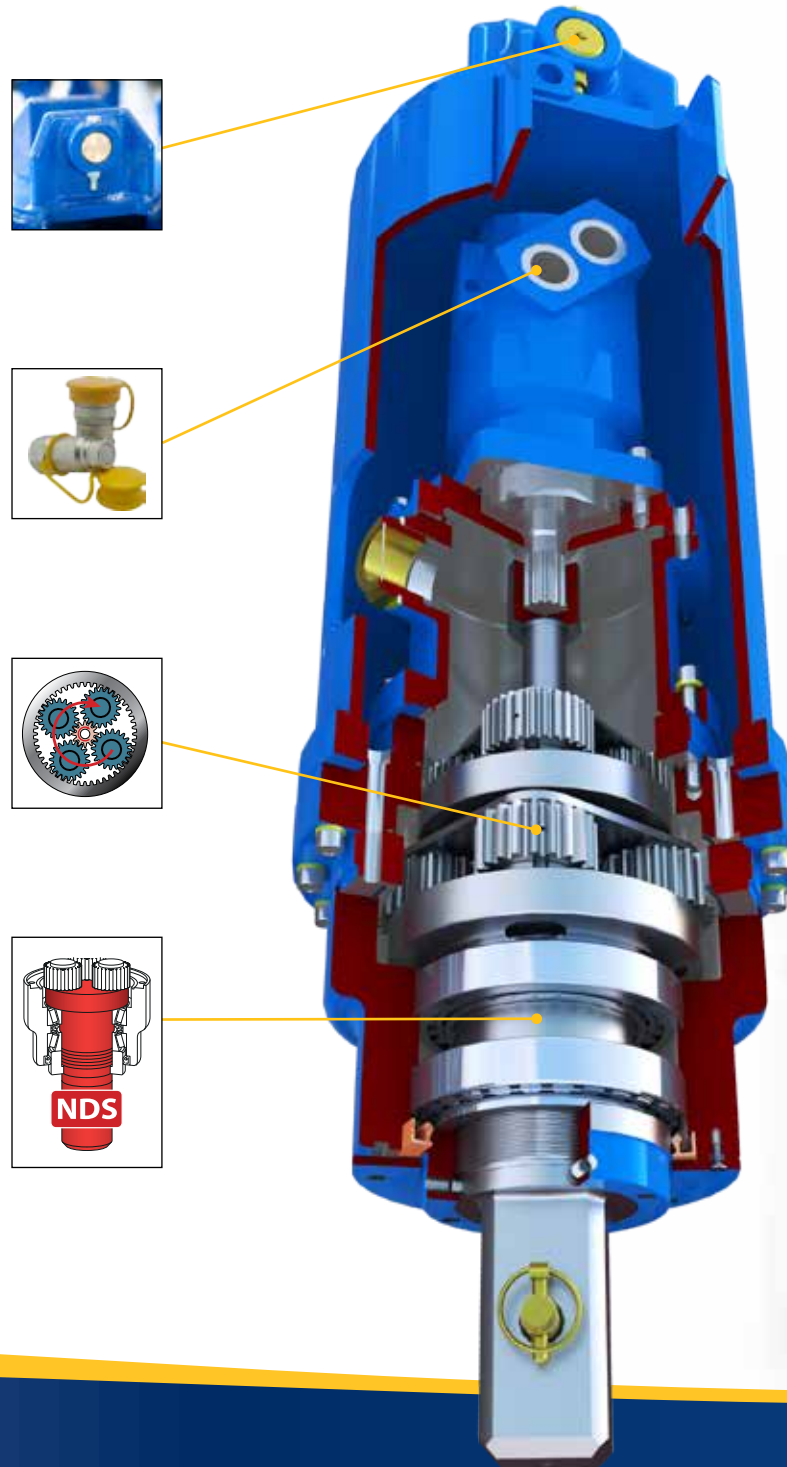
Auger Torque's huge buying power means we work closely with high quality suppliers to develop the most reliable attachments available on the market today.

### EPICYCLIC GEARBOX

Torque is amplified by using the unique Auger Torque planetary gearbox. This system allows the motors 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 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.



**WATCH  
VIDEO**







## MICRO EXCAVATORS 0.75 - 1 T

### S2 AUGERS 100mm-300mm Dia

Torque Range: 189-1,164 Nm  
 Oil Pressure Range: 30-185 Bar  
 Oil Flow Range: 15-32 lpm  
 Speed Range: 38-81 rpm  
 Unit Height: 450mm  
 Unit Diameter: 168mm  
 Unit Weight: 35 kg  
 Output Shaft: 50mm Round  
 Stihl



Single Pin Hitch



50mm  
Round  
Stihl  
Coupling

The Output Shaft on the 1200 Earth Drill can accept the Stihl coupling directly to the shaft.

AUGER DIA (mm)	DRILLING DEPTH METRES**	
	SOFT	MEDIUM
100	0.9M	0.9M
150		
200		
225	0.9M	0.9M
250	0.9M	0.9M
300	0.9M	0.9M

\*These charts have been created as a guide only. Actual performance figures may differ.

\*\* The data shown has been obtained, by Auger Torque, in a controlled environment. Auger Torque cannot guarantee that this environment can be replicated and as such cannot accept liability if these figures cannot be achieved.

\*\*\*Any data or specification contained within this documentation may be subject to change without prior notification.

For further information please contact your authorised Auger Torque distributor.

## AUGER SUMMARY

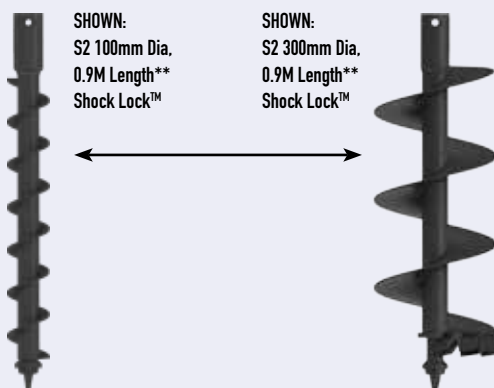
Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S2 AUGERS

Auger Torque S2 Augers feature extra long flighted sections of shallow pitch flights. The Augers are fitted with **Earth Teeth** and an **Earth Pilot**.

Available as standard in the following diameters:

100mm	200mm	250mm
150mm	225mm	300mm



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE  
YOUR TEETH  
DOWN THE  
HOLE!



UNIQUE

\*\* Auger lengths stated include fitted wear parts.



### IDEAL FOR FENCING

The Earth Drill 1200 is Auger Torque's entry level model however its compact size and robust construction and ability to turn a 300mm Auger make it very popular in the fencing industry.



## MINI EXCAVATORS 1 - 2 T

**S4 AUGERS**  
**100mm-400mm Dia**

Torque Range: 511-1,496 Nm  
Oil Pressure Range: 70-205 Bar

Oil Flow Range: 20-45 lpm  
Speed Range: 44-98 rpm

Unit Height: 585 mm  
Unit Diameter: 200 mm  
Unit Weight: 46 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin  
Cradle Hitch



65mm  
Round



## MINI EXCAVATORS 1 - 2.5 T

**S4 AUGERS**  
**100mm-450mm Dia**

Torque Range: 639-2,190 Nm  
Oil Pressure Range: 70-240 Bar

Oil Flow Range: 25-57 lpm  
Speed Range: 43-99 rpm

Unit Height: 585 mm  
Unit Diameter: 200 mm  
Unit Weight: 47 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin  
Cradle Hitch



65mm  
Round



## MINI EXCAVATORS 1.5 - 3 T

**S4 AUGERS**  
**100mm-500mm Dia**

Torque Range: 830-2,847 Nm  
Oil Pressure Range: 70-240 Bar

Oil Flow Range: 27-65 lpm  
Speed Range: 36-87 rpm

Unit Height: 585 mm  
Unit Diameter: 200 mm  
Unit Weight: 48 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin  
Cradle Hitch



65mm  
Round



## MINI EXCAVATORS 2 - 4 T

**S4 AUGERS**  
**100mm-600mm Dia**

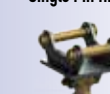
Torque Range: 959-2,877 Nm  
Oil Pressure Range: 80-240 Bar

Oil Flow Range: 27-75 lpm  
Speed Range: 36-100 rpm

Unit Height: 665 mm  
Unit Diameter: 244 mm  
Unit Weight: 71 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin  
Cradle Hitch



65mm  
Round

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2M	1.8M	1.6M
150	2M	1.8M	1.6M
200	1.8M	1.6M	1.4M
225	1.8M	1.6M	1.4M
250	1.5M	1.4M	1.3M
300	1.5M	1.4M	1.3M
350	1.5M	1.4M	1.3M
400	1.2M	1.1M	1M

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2.2M	2M	1.8M
150			
200			
225			
250	↓	↓	↓
300	2.2M	2M	1.8M
350	2M	1.8M	1.6M
400	1.5M	1.4M	1.3M
450	1.2M	1.1M	1M

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2.5M	2.3M	2.1M
150			
200			
225			
250	↓	↓	↓
300	2.5M	2.3M	2.1M
350	2.3M	2.1M	1.9M
400	1.9M	1.7M	1.5M
450	1.7M	1.5M	1.4M
500	1.5M	1.4M	1.3M

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	3M	2.7M	2.4M
150			
200			
225			
250			
300			
350	↓	↓	↓
400	3M	2.7M	2.4M
450	2.6M	2.3M	2.1M
500	2.3M	2.1M	1.9M
600	1.8M	1.6M	1.4M

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## MINI EXCAVATORS 2.5 - 4.5 T

### S4 AUGERS 100mm-750mm Dia

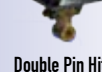
Torque Range: 1,205-3,614 Nm  
Oil Pressure Range: 80-240 Bar

Oil Flow Range: 40-85 lpm  
Speed Range: 42-90 rpm

Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 73 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin Cradle Hitch



65mm Round

GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	3M	2.7M	2.4M
150			
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	2.9M	2.6M	2.3M
750	1.8M	1.6M	1.4M



## MINI EXCAVATORS 3 - 5 T

### S4 AUGERS 100mm-900mm Dia

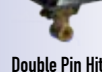
Torque Range: 1,574-4,721 Nm  
Oil Pressure Range: 80-240 Bar

Oil Flow Range: 50-95 lpm  
Speed Range: 40-77 rpm

Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 75 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Output Shaft: 65mm Round  
(Output Shaft adaptors available)



Double Pin Cradle Hitch



65mm Round

GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	4M	3.6M	3.2M
150			
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	4M	3.6M	3.2M
750	2.5M	2.3M	2.1M
800	2M	1.8M	1.6M
900	1.5M	1.4M	1.3M

## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S4 AUGERS

Auger Torque S4 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Extra Dig** variations are available.

Available as standard in the following diameters:

100mm	300mm	600mm
150mm	375mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	

### S4 EXTENSIONS

S4 Auger Extensions are available in the following lengths:

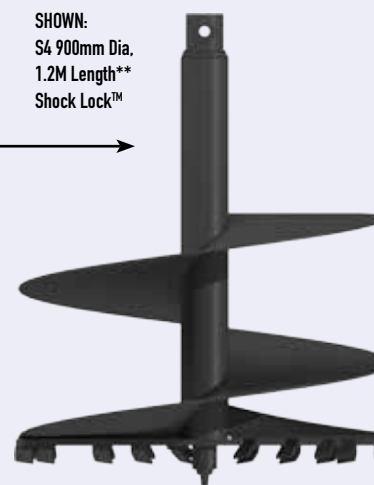
500mm

1M

(other lengths on request)



SHOWN:  
S4 100mm Dia,  
1.2M Length\*\*  
Shock Lock™



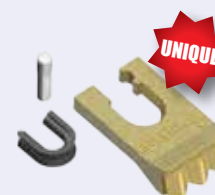
SHOWN:  
S4 900mm Dia,  
1.2M Length\*\*  
Shock Lock™

SHOWN:  
S4 1M  
Extension



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



\*\* Auger lengths stated  
include fitted wear parts.



## EXCAVATORS 4.5 - 6 T

### S5 AUGERS 150mm-750mm Dia

Torque Range: 1,685-5,477 Nm  
Oil Pressure Range: 80-260 Bar  
Oil Flow Range: 40-115 lpm  
Speed Range: 30-87 rpm  
Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 108 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



Double Pin Hitch



Cradle Hitch



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	4M	3.6M	3.2M
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	4M	3.6M	3.2M
750	3M	2.7M	2.4M



75mm Square



2 Way Valve  
Converts single acting hammer circuit into 2 Way auxiliary flow



## EXCAVATORS 5 - 7 T

### S5 AUGERS 150mm-900mm Dia

Torque Range: 2,133-6,931 Nm  
Oil Pressure Range: 80-260 Bar  
Oil Flow Range: 60-135 lpm  
Speed Range: 36-81 rpm  
Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 112 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



Double Pin Hitch



Cradle Hitch



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	5M	4.5M	4.1M
200			
225			
250			
300			
350			
400			
450	↓	↓	↓
500	5M	4.5M	4.1M
600	4M	3.6M	3.2M
750	3.5M	3.2M	2.9M
800	3M	2.7M	2.4M
900	2.5M	2.3M	2.1M



75mm Square



2 Way Valve  
Converts single acting hammer circuit into 2 Way auxiliary flow



## EXCAVATORS 6 - 8 T

### S5 AUGERS 150mm-1.2M Dia

Torque Range: 2,717-8,152 Nm  
Oil Pressure Range: 80-240 Bar  
Oil Flow Range: 70-150 lpm  
Speed Range: 33-70 rpm  
Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 116 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



Double Pin Hitch



Cradle Hitch



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	6M	5.4M	4.9M
200			
225			
250			
300			
350	↓	↓	↓
400	6M	5.4M	4.9M
450	5M	4.5M	4.1M
500	5M	4.5M	4.1M
600	5M	4.5M	4.1M
750	4M	3.6M	3.2M
800	4M	3.6M	3.2M
900	3.5M	3.2M	2.9M
1000	3.5M	3.2M	2.9M
1200	3M	2.7M	2.4M



75mm Square



2 Way Valve  
Converts single acting hammer circuit into 2 Way auxiliary flow





## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S5 AUGERS

Auger Torque S5 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten and Rock** variations are available.

Available as standard in the following diameters:

150mm	350mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	1M
300mm	600mm	1.2M

### S5 EXTENSIONS

Available in the following lengths:

1M 1.5M  
2M

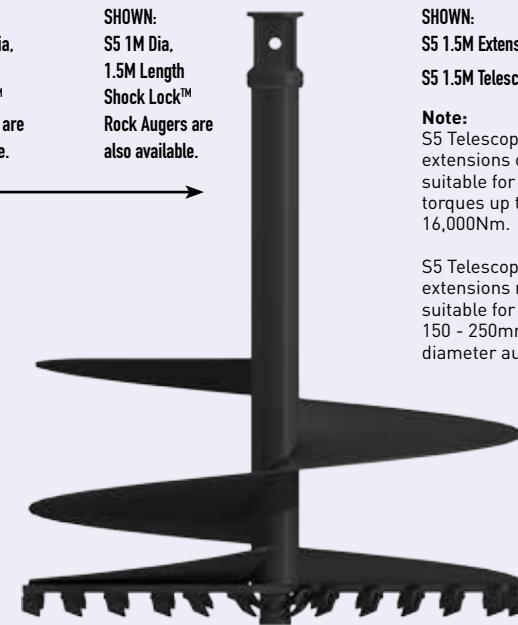
### S5 TELESCOPIC

Available in the following lengths:

1.5M 2M



SHOWN:  
S5 150mm Dia,  
1.5M Length  
Shock Lock™  
Rock Augers are  
also available.



SHOWN:  
S5 1M Dia,  
1.5M Length  
Shock Lock™  
Rock Augers are  
also available.

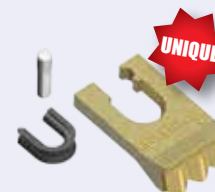
SHOWN:  
S5 1.5M Extension  
S5 1.5M Telescopic

**Note:**  
S5 Telescopic  
extensions only  
suitable for  
torques up to  
16,000Nm.

S5 Telescopic  
extensions not  
suitable for  
150 - 250mm  
diameter augers.

**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature  
Shock Lock™ Toothholders.  
Rock Teeth Augers are also  
available.





## EXCAVATORS 8 - 13 T

### S6 AUGERS 150mm-1M Dia

Torque Range: 3,998-11,995 Nm  
 Oil Pressure Range: 80-240 Bar  
 Oil Flow Range: 80-170 lpm  
 Speed Range: 25-54 rpm  
 Unit Height: 930mm  
 Unit Diameter: 290mm  
 Unit Weight: 172 kg  
 Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Cradle Hitch  
 Optional Extras: Pressure Relief Valve  
 2 Way Valve  
 Output Shaft Std: 75mm Square



Double Pin  
Cradle Hitch



Single Pin Hitch



Double Pin Hitch



75mm  
Square



Bolt On Pressure  
Relief Valve

2 Way Valve  
Converts single  
acting hammer  
circuit into 2 Way  
auxiliary flow

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	7M	6.3M	5.7M
200			
225			
250			
300			
350			
375	↓	↓	↓
400	7M	6.3M	5.7M
450	6.5M	5.9M	5.3M
500	6.5M	5.9M	5.3M
550	6.5M	5.9M	5.3M
600	6.5M	5.9M	5.3M
700	6M	5.4M	4.9M
750	5.5M	5M	4.5M
800	5.5M	5M	4.5M
900	5M	4.5M	4.1M
1000	4.5M	4.1M	3.7M



## EXCAVATORS 10 - 15 T

### S6 AUGERS 150mm-1.2M Dia

Torque Range: 5,024-15,071 Nm  
 Oil Pressure Range: 80-240 Bar  
 Oil Flow Range: 80-170 lpm  
 Speed Range: 20-43 rpm  
 Unit Height: 930mm  
 Unit Diameter: 290mm  
 Unit Weight: 173 kg  
 Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Cradle Hitch  
 Optional Extras: Pressure Relief Valve  
 2 Way Valve  
 Output Shaft Std: 75mm Square



Double Pin  
Cradle Hitch



Single Pin Hitch



Double Pin Hitch



75mm Square



2 Way Valve  
Converts single  
acting hammer  
circuit into 2 Way  
auxiliary flow



Bolt On Pressure  
Relief Valve

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	7.5M	6.8M	6.1M
200			
225			
250			
300			
350	↓	↓	↓
400	7.5M	6.8M	6.1M
450	7M	6.3M	5.7M
500	7M	6.3M	5.7M
600	7M	6.3M	5.7M
750	6M	5.4M	4.9M
800	6M	5.4M	4.9M
900	5.5M	5M	4.5M
1000	5M	4.5M	4.1M
1200	4.5M	4.1M	3.7M







## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S6 AUGERS

Auger Torque S6 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten and Rock** variations are available.

Available as standard in the following diameters:

150mm	300mm	500mm	900mm
200mm	350mm	600mm	1M
225mm	400mm	750mm	1.2M
250mm	450mm	800mm	

SHOWN:  
S6 150mm Dia,  
1.88M Length  
Shock Lock™  
Rock Augers are  
also available.

SHOWN:  
S6 1.2M Dia,  
1.88M Length  
Shock Lock™  
Rock Augers are  
also available.



### S6 EXTENSIONS

Available in the  
following lengths:

1.5M 2M 2.5M 3M

### S6 TELESCOPIC

Available in the  
following lengths:

1.5M 2M

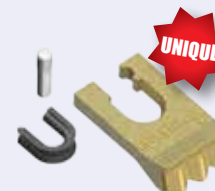
SHOWN:  
S6 1.5M Extension  
S6 1.5M Telescopic

**Note:**  
S6 Telescopic  
extensions only  
suitable for  
torques up to  
16,000Nm.

S6 Telescopic  
extensions not  
suitable for  
150 - 250mm  
diameter augers.

**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature  
Shock Lock™ Toothholders.  
Rock Teeth Augers are also  
available.



## EXCAVATORS 13 - 20 T

### S6 AUGERS 150mm-1.2M Dia

Torque Range: 13,043-19,564 Nm  
Oil Pressure Range: 160-240 Bar  
Oil Flow Range: 80-170 lpm  
Speed Range: 16-33 rpm  
Unit Height: 1130mm  
Unit Diameter: 345mm  
Unit Weight: 268 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Optional Extras: Pressure Relief Valve  
2 Way Valve

Output Shaft: 75mm Square



Double Pin Hitch



Single Pin Hitch



75mm Square



Double Pin Cradle Hitch



Bolt On Pressure Relief Valve



2 Way Valve  
Converts single acting hammer circuit into 2 Way auxiliary flow



## EXCAVATORS 15 - 22 T

### S6 AUGERS 150mm-1.5M Dia

Torque Range: 16,503-24,755 Nm  
Oil Pressure Range: 160-240 Bar  
Oil Flow Range: 80-170 lpm  
Speed Range: 12-26 rpm  
Unit Height: 1130mm  
Unit Diameter: 345mm  
Unit Weight: 269 kg

Hitch Options: Single Pin Hitch  
Double Pin Hitch  
Cradle Hitch

Optional Extras: Pressure Relief Valve  
2 Way Valve

Output Shaft: 75mm Square



Double Pin Hitch



Single Pin Hitch



75mm Square



Double Pin Cradle Hitch



Bolt On Pressure Relief Valve



2 Way Valve  
Converts single acting hammer circuit into 2 Way auxiliary flow

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	8.5M	7.7M	6.9M
200			
225			
250			
300			
350	↓	↓	↓
400	8.5M	7.7M	6.9M
450	8M	7.2M	6.5M
500	8M	7.2M	6.5M
600	8M	7.2M	6.5M
750	7M	6.3M	5.7M
800	7M	6.3M	5.7M
900	6.5M	5.9M	5.3M
1000	6M	5.4M	4.9M
1200	5.5M	5M	4.5M

### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	9M	8.1M	7.3M
200			
225			
250			
300			
350	↓	↓	↓
400	9M	8.1M	7.3M
450	8.5M	7.7M	6.9M
500	8.5M	7.7M	6.9M
600	8.5M	7.7M	6.9M
750	7.5M	6.8M	6.1M
800	7.5M	6.8M	6.1M
900	7M	6.3M	5.7M
1000	6.5M	5.9M	5.3M
1200	6M	5.4M	4.9M
1500	5M	4.5M	4.1M



\*These charts have been created as a guide only. Actual performance figures may differ.

\*\* The data shown has been obtained, by Auger Torque, in a controlled environment. Auger Torque cannot guarantee that this environment can be replicated and as such cannot accept liability if these figures cannot be achieved.

\*\*\*Any data or specification contained within this documentation may be subject to change without prior notification. For further information please contact your authorised Auger Torque distributor.





## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S6 AUGERS

Auger Torque S6 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Rock** variations are available.

Available as standard in the following diameters:

150mm	300mm	500mm	900mm
200mm	350mm	600mm	1M
225mm	400mm	750mm	1.2M
250mm	450mm	800mm	1.5M

### S6 EXTENSIONS

Available in the following lengths:

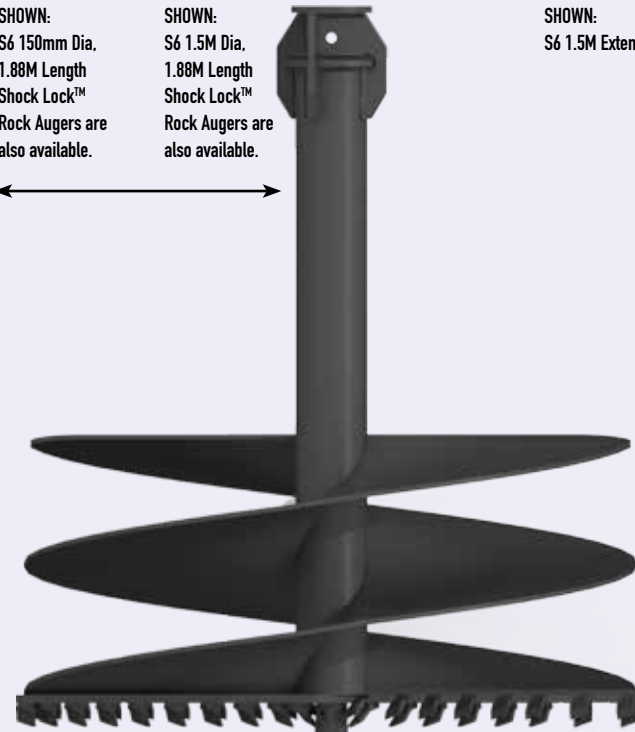
1.5M 2M 2.5M 3M



SHOWN:  
S6 150mm Dia,  
1.88M Length  
Shock Lock™  
Rock Augers are  
also available.



SHOWN:  
S6 1.5M Dia,  
1.88M Length  
Shock Lock™  
Rock Augers are  
also available.



SHOWN:  
S6 1.5M Extension



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



**UNIQUE**

Augers shown feature  
Shock Lock™ Toothholders.  
Rock Teeth Augers are also  
available.



## EXCAVATORS 20 - 45 T

### PA SERIES AUGERS 300mm-1.5M Dia

Torque Range: 20,510-35,323 Nm  
Oil Pressure Range: 180-310 Bar  
Oil Flow Range: 80-225 lpm  
Speed Range: 11-31 rpm  
Unit Height: 1411mm  
Unit Diameter: 406mm  
Unit Weight: 442 kg  
Output Shaft Std: 110mm Square  
(Output Shaft adaptors available)



110mm  
Square



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
300	10.5M	9.5M	8.6M
350	↓	↓	↓
400	10M	9M	8.1M
450	10M	9M	8.1M
500	9.5M	8.6M	7.7M
600	9M	8.1M	7.3M
750	9M	8.1M	7.3M
800	9M	8.1M	7.3M
900	8.5M	7.7M	6.9M
1000	8M	7.2M	6.5M
1200	7.5M	6.8M	6.1M
1500	7M	6.3M	5.7M



Double Pin  
Cradle Hitch



2 Way Valve  
Converts single  
acting hammer  
circuit into 2 Way  
auxiliary flow



Adaptor Plate  
for 35,000MAX



## EXCAVATORS 20 - 45 T

### PA SERIES AUGERS 300mm-1.8M Dia

Torque Range: 24,612-42,387 Nm  
Oil Pressure Range: 180-310 Bar  
Oil Flow Range: 80-225 lpm  
Speed Range: 9-26 rpm  
Unit Height: 1411mm  
Unit Diameter: 406mm  
Unit Weight: 442 kg  
Output Shaft Std: 110mm Square  
(Output Shaft adaptors available)



110mm  
Square



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
300	11.5M	9.5M	9.6M
350	↓	↓	↓
400	11M	10M	9.1M
450	11M	10M	9.1M
500	10.5M	9.6M	8.7M
600	10M	9.1M	8.3M
750	9M	8.1M	7.3M
800	9M	8.1M	7.3M
900	8.5M	7.7M	6.9M
1000	8M	7.2M	6.5M
1200	7.5M	6.8M	6.1M
1500	7M	6.3M	5.7M
1800	6M	5.4M	4.9M



Double Pin  
Cradle Hitch



2 Way Valve  
Converts single  
acting hammer  
circuit into 2 Way  
auxiliary flow



Adaptor Plate  
for 42,000MAX



## EXCAVATORS 21 - 45 T

### PA SERIES AUGERS 300mm-2.4M Dia

Torque Range: 33,295-66,589 Nm  
Oil Pressure Range: 160-320 Bar  
Oil Flow Range: 100-280 lpm  
Speed Range: 8-21 rpm  
Unit Height: 1556mm  
Unit Diameter: 406mm  
Unit Weight: 480 kg  
Output Shaft Std: 110mm Square  
(Output Shaft adaptors available)



110mm  
Square



Single Pin Hitch

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
300	12M	10.8M	9.7M
350	↓	↓	↓
400	12M	10.8M	9.7M
450	11.5M	10.4M	9.4M
500	11.5M	10.4M	9.4M
600	11M	9.9M	8.9M
750	10M	9M	8.1M
800	10M	9M	8.1M
900	9.5M	8.6M	7.7M
1000	9M	8.1M	7.3M
1200	8.3M	7.5M	6.8M
1500	7.5M	6.8M	6.1M
1800	6.5M	5.9M	5.3M
2000	5.8M	5.2M	4.7M
2200	5.3M	4.8M	4.3M
2400	4.8M	4.3M	3.9M



Double Pin  
Cradle Hitch



2 Way Valve  
Converts single  
acting hammer  
circuit into 2 Way  
auxiliary flow



Adaptor Plate  
for 65,000MAX





## AUGER SUMMARY

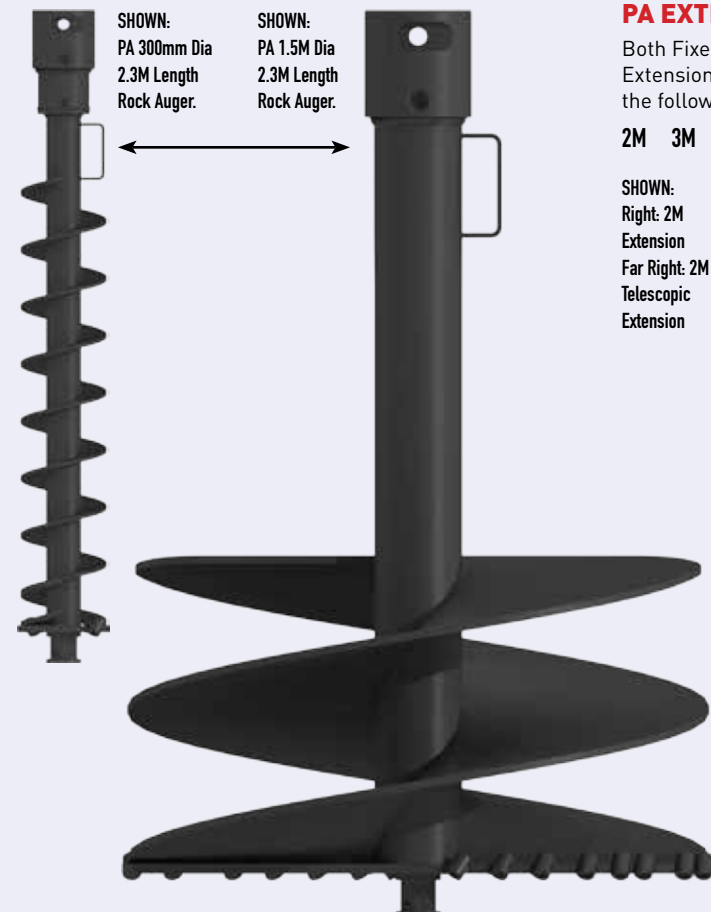
Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### PA AUGERS

Auger Torque PA Augers feature extra long flighted sections of shallow pitch flights and are available in 2.3M and 3.3M lengths. **Earth** and **Rock** variations are available. Available as standard in the following diameters:

300mm	450mm	600mm	800mm	1.2M	2M
350mm	500mm	700mm	900mm	1.5M	2.2M
400mm	550mm	750mm	1M	1.8M	2.4M

For Augers over 1.5 metres diameter please call our sales office for further information.



### PA EXTENSIONS

Both Fixed and Telescopic Extensions are available in the following lengths:

2M 3M

SHOWN:  
Right: 2M  
Extension  
Far Right: 2M  
Telescopic  
Extension



## MINI LOADERS

### S4 AUGERS 100mm-400mm Dia

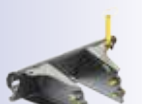
Torque Range: 511-1,496 Nm  
Oil Pressure Range: 70-205 Bar

Oil Flow Range: 20-45 lpm  
Speed Range: 44-98 rpm

Unit Height: 406 mm  
Unit Width: 205 mm  
Unit Weight: 38 kg

Mounting Frame: 2 Way Swing  
4 Way Swing

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



65mm  
Round

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2M	1.8M	1.6M
150	2M	1.8M	1.6M
200	1.8M	1.6M	1.4M
225	1.8M	1.6M	1.4M
250	1.5M	1.4M	1.3M
300	1.5M	1.4M	1.3M
350	1.5M	1.4M	1.3M
400	1.2M	1.1M	1M



## MINI LOADERS

### S4 AUGERS 100mm-450mm Dia

Torque Range: 639-2,190 Nm  
Oil Pressure Range: 70-240 Bar

Oil Flow Range: 25-57 lpm  
Speed Range: 43-99 rpm

Unit Height: 465 mm  
Unit Width: 205 mm  
Unit Weight: 40 kg

Mounting Frame: 2 Way Swing  
4 Way Swing

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



65mm  
Round

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2.2M	2M	1.8M
150			
200			
225			
250	↓	↓	↓
300	2.2M	2M	1.8M
350	2M	1.8M	1.6M
400	1.5M	1.4M	1.3M
450	1.2M	1.1M	1M



## MINI LOADERS

### S4 AUGERS 100mm-500mm Dia

Torque Range: 830-2,847 Nm  
Oil Pressure Range: 70-240 Bar

Oil Flow Range: 27-65 lpm  
Speed Range: 36-87 rpm

Unit Height: 465 mm  
Unit Width: 205 mm  
Unit Weight: 40 kg

Mounting Frame: 2 Way Swing  
4 Way Swing

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



65mm  
Round

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	2.5M	2.3M	2.1M
150			
200			
225			
250	↓	↓	↓
300	2.5M	2.3M	2.1M
350	2.3M	2.1M	1.9M
400	1.9M	1.7M	1.5M
450	1.7M	1.5M	1.4M
500	1.5M	1.4M	1.3M



## SKIDSTEER LOADERS LOW FLOW UP TO 50 HP

### S4 AUGERS 100-600mm Dia

Torque Range: 959-2,877 Nm  
Oil Pressure Range: 80-240 Bar

Oil Flow Range: 27-75 lpm  
Speed Range: 36-100 rpm

Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 71 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



Side Shift Frame



65mm  
Round

#### GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	3M	2.7M	2.4M
150			
200			
225			
250			
300			
350	↓	↓	↓
400	3M	2.7M	2.4M
450	2.6M	2.3M	2.1M
500	2.3M	2.1M	1.9M
600	1.8M	1.6M	1.4M





## SKIDSTEER LOADERS LOW FLOW UP TO 65 HP

### S4 AUGERS 100mm-750mm Dia

Torque Range: 1,205-3,614 Nm  
Oil Pressure Range: 80-240 Bar  
Oil Flow Range: 40-85 lpm  
Speed Range: 42-90 rpm  
Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 73 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



Side Shift Frame



65mm Round

GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	3M	2.7M	2.4M
150			
200			
225			
250			
300			
350			
400			
450			
500			
600	2.9M	2.6M	2.3M
750	1.8M	1.6M	1.4M



## SKIDSTEER LOADERS LOW FLOW UP TO 80 HP

### S4 AUGERS 100mm-900mm Dia

Torque Range: 1,574-4,721 Nm  
Oil Pressure Range: 80-240 Bar  
Oil Flow Range: 50-95 lpm  
Speed Range: 40-77 rpm  
Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 75 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



Side Shift Frame



65mm Round

GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	4M	3.6M	3.2M
150			
200			
225			
250			
300			
375			
400			
450			
500			
600	4M	3.6M	3.2M
750	2.5M	2.3M	2.1M
800	2M	1.8M	1.6M
900	1.5M	1.4M	1.3M

## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S4 AUGERS

Auger Torque S4 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Extra Dig** variations are available.

Available as standard in the following diameters:

100mm	300mm	600mm
150mm	375mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	

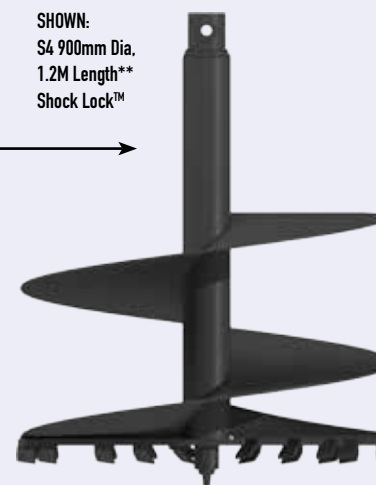
### S4 EXTENSIONS

S4 Auger Extensions are available in the following lengths:

500mm  
1M  
(other lengths on request)



SHOWN:  
S4 100mm Dia,  
1.2M Length\*\*  
Shock Lock™



SHOWN:  
S4 900mm Dia,  
1.2M Length\*\*  
Shock Lock™

SHOWN:  
S4 1M  
Extension



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



\*\* Auger lengths stated  
include fitted wear parts.



**SKIDSTEER LOADERS  
HIGH FLOW  
UP TO 100 HP**

**TELEHANDLERS  
4.5 - 7 T**

**S5 AUGERS  
150mm-750mm Dia**

Torque Range: 1,685-5,477 Nm  
Oil Pressure Range: 80-260 Bar

Oil Flow Range: 40-115 lpm  
Speed Range: 30-87 rpm

Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 108 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



**GUIDE TO DRILLING PERFORMANCE\***

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	4M	3.6M	3.2M
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	4M	3.6M	3.2M
750	3M	2.7M	2.4M



75mm Square



**SKIDSTEER LOADERS  
HIGH FLOW  
UP TO 135 LPM**

**TELEHANDLERS  
5 - 8 T**

**S5 AUGERS  
150mm-900mm Dia**

Torque Range: 2,133-6,931 Nm  
Oil Pressure Range: 80-260 Bar

Oil Flow Range: 60-135 lpm  
Speed Range: 36-81 rpm

Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 112 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



**GUIDE TO DRILLING PERFORMANCE\***

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	5M	4.5M	4.1M
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	5M	4.5M	4.1M
750	4M	3.6M	3.2M
800	3.5M	3.2M	2.9M
900	3M	2.7M	2.4M



75mm Square



Bolt On Pressure Relief Valve



**SKIDSTEER LOADERS  
HIGH FLOW  
UP TO 150 LPM**

**S5 AUGERS  
150mm-1.2M Dia**

Torque Range: 2,717-8,152 Nm  
Oil Pressure Range: 80-240 Bar

Oil Flow Range: 70-150 lpm  
Speed Range: 33-70 rpm

Unit Height: 780mm  
Unit Diameter: 269mm  
Unit Weight: 116 kg

Mounting Frame: Fixed Centre Cradle  
Side Shift Cradle

Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



**GUIDE TO DRILLING PERFORMANCE\***

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	6M	5.4M	4.9M
200			
225			
250			
300			
350			
400	↓	↓	↓
450	6M	5.4M	4.9M
500	5M	4.5M	4.1M
600	5M	4.5M	4.1M
750	5M	4.5M	4.1M
800	4M	3.6M	3.2M
900	4M	3.6M	3.2M
1000	3.5M	3.2M	2.9M
1200	3M	2.7M	2.4M



75mm Square



Bolt On Pressure Relief Valve



## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S5 AUGERS

Auger Torque S5 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Rock** variations are available.

Available as standard in the following diameters:

150mm	350mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	1M
300mm	600mm	1.2M

### S5 EXTENSIONS

Available in the following lengths:

1M	1.5M
2M	

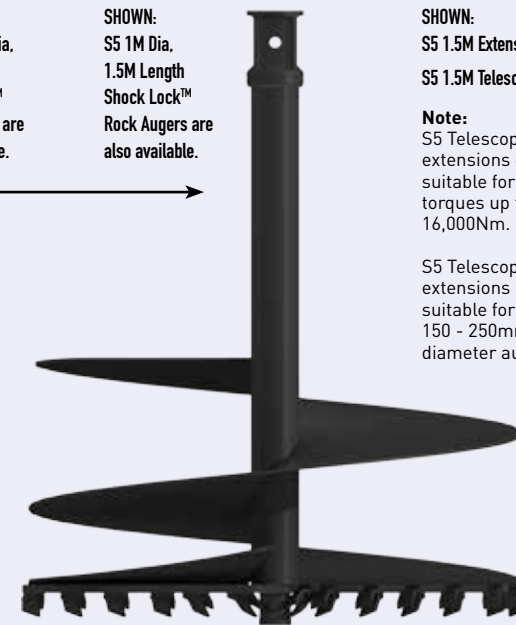
### S5 TELESCOPIC

Available in the following lengths:

1.5M	2M
------	----



SHOWN:  
S5 150mm Dia,  
1.5M Length  
Shock Lock™  
Rock Augers are  
also available.



SHOWN:  
S5 1M Dia,  
1.5M Length  
Shock Lock™  
Rock Augers are  
also available.

SHOWN:  
S5 1.5M Extension  
S5 1.5M Telescopic

**Note:**  
S5 Telescopic  
extensions only  
suitable for  
torques up to  
16,000Nm.

S5 Telescopic  
extensions not  
suitable for  
150 - 250mm  
diameter augers.



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature  
Shock Lock™ Toothholders.  
Rock Teeth Augers are also  
available.




**7000 m**  
 Earth Drill  
**MAX**

## BACKHOES

### S5 AUGERS 150mm-900mm Dia

Torque Range: 2,133-6,931 Nm  
 Oil Pressure Range: 80-260 Bar  
 Oil Flow Range: 60-135 lpm  
 Speed Range: 36-81 rpm  
 Unit Height: 780mm  
 Unit Diameter: 269mm  
 Unit Weight: 112 kg

Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft Std: 75mm Square  
 (Output Shaft adaptors available)



Single Pin Hitch



Double Pin Hitch

Double Pin  
Cradle Hitch75mm  
Square

2 Way Valve  
 Converts single  
 acting hammer  
 circuit into 2 Way  
 auxiliary flow

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	5M	4.5M	4.1M
200			
225			
250			
300			
350			
400			
450			
500	5M	4.5M	4.1M
600	4M	3.6M	3.2M
750	3.5M	3.2M	2.9M
800	3M	2.7M	2.4M
900	2.5M	2.3M	2.1M


**8000 m**  
 Earth Drill  
**MAX**

## BACKHOES

### S5 AUGERS 150mm-1.2M Dia

Torque Range: 2,717-8,152 Nm  
 Oil Pressure Range: 80-240 Bar  
 Oil Flow Range: 70-150 lpm  
 Speed Range: 33-70 rpm  
 Unit Height: 780mm  
 Unit Diameter: 269mm  
 Unit Weight: 116 kg

Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft Std: 75mm Square  
 (Output Shaft adaptors available)



Single Pin Hitch



Double Pin Hitch

Double Pin  
Cradle Hitch75mm  
Square

2 Way Valve  
 Converts single  
 acting hammer  
 circuit into 2 Way  
 auxiliary flow

## GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	6M	5.4M	4.9M
200			
225			
250			
300			
350			
400	6M	5.4M	4.9M
450	5M	4.5M	4.1M
500	5M	4.5M	4.1M
600	5M	4.5M	4.1M
750	4M	3.6M	3.2M
800	4M	3.6M	3.2M
900	3.5M	3.2M	2.9M
1000	3.5M	3.2M	2.9M
1200	3M	2.7M	2.4M

## GUIDE TO DRILLING PERFORMANCE\*

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	6.5M	5.9M	5.3M
200			
225			
250			
300			
350			
400	6.5M	5.9M	5.3M
450	6M	5.4M	4.9M
500	6M	5.4M	4.9M
600	6M	5.4M	4.9M
750	5M	4.5M	4.1M
800	5M	4.5M	4.1M
900	4M	3.6M	3.2M



Single Pin Hitch



Double Pin Hitch

Double Pin  
Cradle Hitch75mm  
Square

2 Way Valve  
 Converts single  
 acting hammer  
 circuit into 2 Way  
 auxiliary flow

**10000 m**  
 Earth Drill  
**MAX**

## BACKHOES

### S6 AUGERS 150mm-900mm Dia

Torque Range: 3,281-10,662 Nm  
 Oil Pressure Range: 80-260 Bar  
 Oil Flow Range: 70-150 lpm  
 Speed Range: 27-58 rpm  
 Unit Height: 883mm  
 Unit Diameter: 290mm  
 Unit Weight: 162 kg

Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Cradle Hitch

Optional Extras: 2 Way Valve

Output Shaft: 75mm Square



\*These charts have been created as a guide only. Actual performance figures may differ.

\*\* The data shown has been obtained, by Auger Torque, in a controlled environment. Auger Torque cannot guarantee that this environment can be replicated and as such cannot accept liability if these figures cannot be achieved.

\*\*\*Any data or specification contained within this documentation may be subject to change without prior notification. For further information please contact your authorised Auger Torque distributor.

## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S5 AUGERS

Auger Torque S5 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten and Rock** variations are available.

Available as standard in the following diameters:

150mm	350mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	1M
300mm	600mm	1.2M

### S5 EXTENSIONS

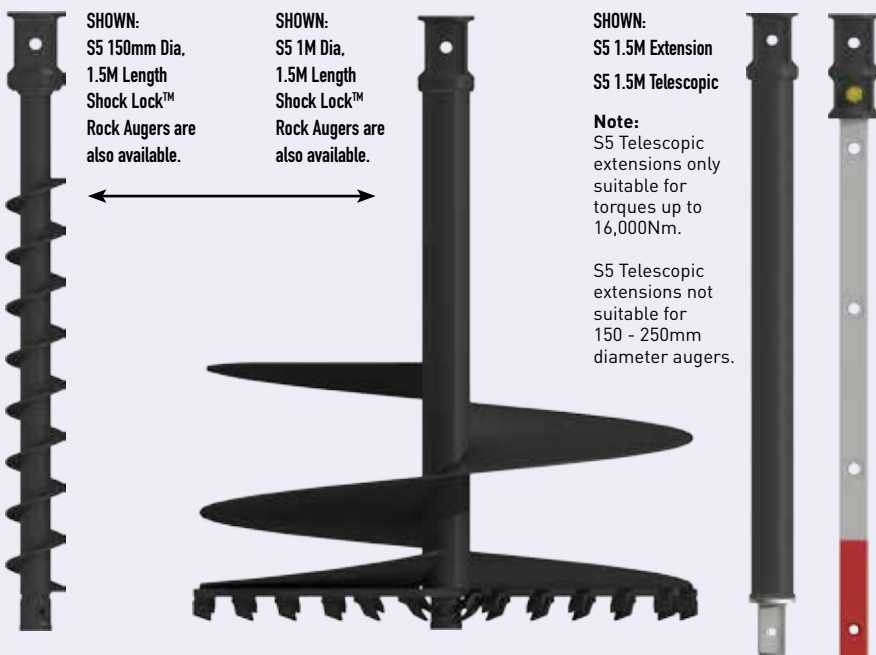
Available in the following lengths:

1M 1.5M  
2M

### S5 TELESCOPIC

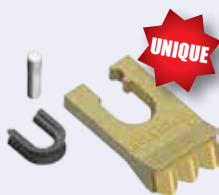
Available in the following lengths:

1.5M 2M



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature Shock Lock™ Toothholders. Rock Teeth Augers are also available.

## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S6 AUGERS

Auger Torque S6 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten and Rock** variations are available.

Available as standard in the following diameters:

150mm	300mm	500mm	900mm
200mm	350mm	600mm	1M
225mm	400mm	750mm	1.2M
250mm	450mm	800mm	

### S6 EXTENSIONS

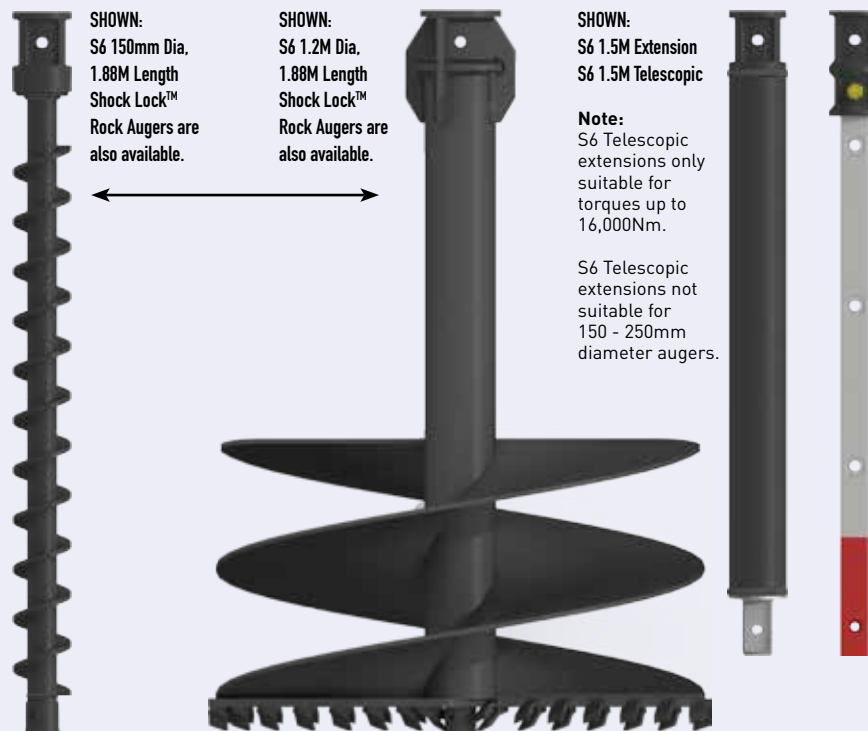
Available in the following lengths:

1.5M 2M 2.5M 3M

### S6 TELESCOPIC

Available in the following lengths:

1.5M 2M



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature Shock Lock™ Toothholders. Rock Teeth Augers are also available.



AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
100	3M	2.7M	2.4M
150			
200			
225			
250			
300			
350	↓	↓	↓
400	3M	2.7M	2.4M
450	2.5M	2.3M	2.1M
500	2M	1.8M	1.6M
600	1.5M	1.4M	1.3M

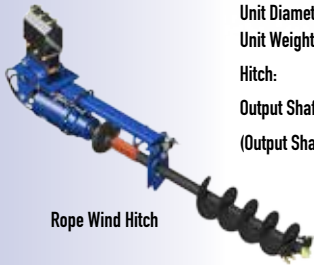


**3000Tc**  
Earth Drill

## TRUCK CRANES TO 9 T / METRE

**S4 AUGERS**  
100mm-600mm Dia

Torque Range: 959-3,116 Nm  
Oil Pressure Range: 80-260 Bar  
Oil Flow Range: 5-35 lpm  
Speed Range: 7-46 rpm  
Unit Height: 665mm  
Unit Diameter: 244mm  
Unit Weight: 73 kg  
Hitch: Rope Wind Hitch  
Output Shaft Std: 65mm Round  
(Output Shaft adaptors available)



65mm  
Round

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	4M	3.6M	3.2M
200			
225			
250			
300			
350			
400			
450			
500	↓	↓	↓
600	4M	3.6M	3.2M
750	3M	2.7M	2.4M
800	2.5M	2.3M	2.1M

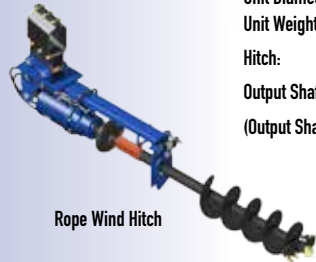


**5500Tc**  
Earth Drill

## TRUCK CRANES TO 15 T / METRE

**S5 AUGERS**  
150-800mm Dia

Torque Range: 1,685-5,477 Nm  
Oil Pressure Range: 80-260 Bar  
Oil Flow Range: 15-50 lpm  
Speed Range: 11-38 rpm  
Unit Height: 780 mm  
Unit Diameter: 269 mm  
Unit Weight: 108 kg  
Hitch: Rope Wind Hitch  
Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



75mm  
Square

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	5M	4.5M	4.1M
200			
225			
250			
300			
350			
400			
450	↓	↓	↓
500	5M	4.5M	4.1M
600	4M	3.6M	3.2M
750	3.5M	3.2M	2.9M
800	3M	2.7M	2.4M
900	2.5M	2.3M	2.1M
1000	2M	1.8M	1.6M

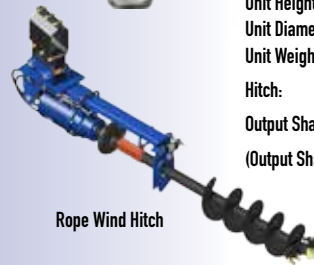


**7000Tc**  
Earth Drill

## TRUCK CRANES 9-18 T / METRE

**S5 AUGERS**  
150mm-1M Dia

Torque Range: 2,098-6,819 Nm  
Oil Pressure Range: 80-260 Bar  
Oil Flow Range: 15-50 lpm  
Speed Range: 9-30 rpm  
Unit Height: 780 mm  
Unit Diameter: 269 mm  
Unit Weight: 110 kg  
Hitch: Rope Wind Hitch  
Output Shaft Std: 75mm Square  
(Output Shaft adaptors available)



75mm  
Square



## AUGER SUMMARY

Full technical details of Augers, Extensions and Wear Parts can be found in the Auger section of this brochure.

### S4 AUGERS FOR THE 3000TC

Auger Torque S4 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Extra Dig** variations are available.

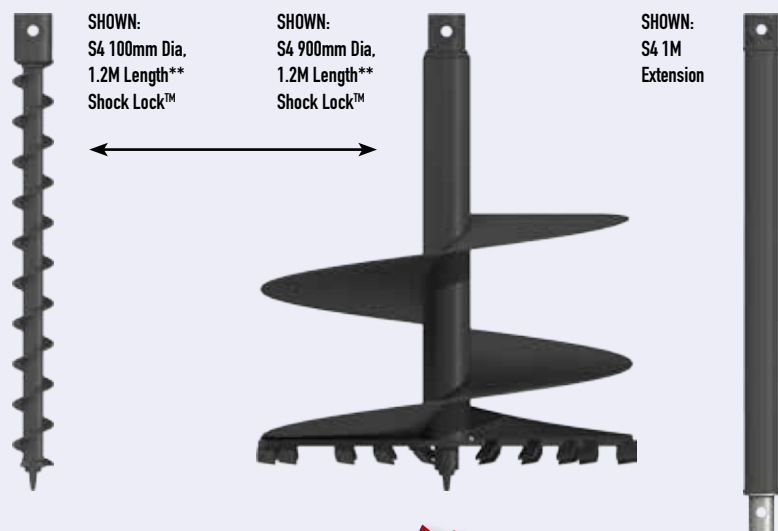
Available as standard in the following diameters:

100mm	250mm	450mm
150mm	300mm	500mm
200mm	350mm	600mm
225mm	400mm	

### S4 EXTENSIONS

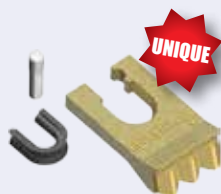
S4 Auger Extensions are available in the following lengths:

500mm  
1M  
(other lengths on request)



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



\*\* Auger lengths stated  
include fitted wear parts.

### S5 AUGERS FOR THE 5500TC AND 7000TC

Auger Torque S5 Augers feature extra long flighted sections of shallow pitch flights. **Earth, Tungsten** and **Rock** variations are available.

Available as standard in the following diameters:

150mm	350mm	750mm
200mm	400mm	800mm
225mm	450mm	900mm
250mm	500mm	1M
300mm	600mm	

### S5 EXTENSIONS

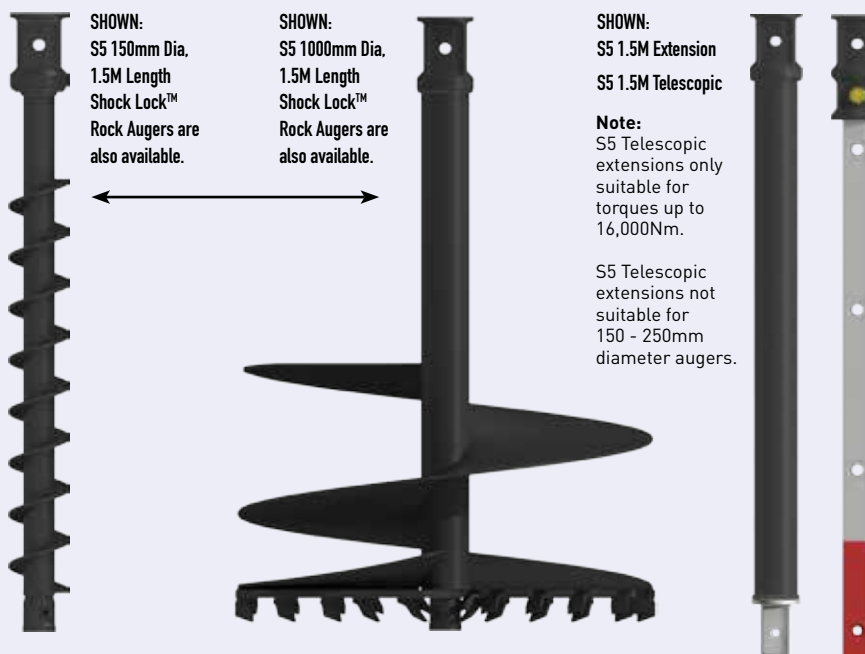
Available in the  
following lengths:

1M 1.5M  
2M

### S5 TELESCOPIC

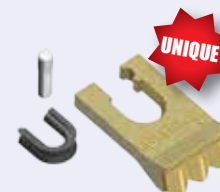
Available in the  
following lengths:

1.5M 2M



**SHOCK LOCK™**  
Tooth Locking System

DON'T LEAVE YOUR TEETH  
DOWN THE HOLE!



Augers shown feature  
Shock Lock™ Toothholders.  
Rock Teeth Augers are also  
available.



# AUGERS

## Features of our Augers

### HUB OPTIONS

Augers are available with all major standard hubs on the market, including:

2", 2.5", 3" and 4" Hex

50mm, 2" and 65mm Round

57mm, 75mm, 100mm, 110mm and 130mm Square ...to name but a few.

### HEAVY DUTY TUBE

We know that our Augers can expect a tough life so we only use the highest grade steel and vary our tube size according to machine size and application. Our Augers have a reputation of being the toughest on the market.

### SHALLOW PITCH FLIGHTS

By working with and, more importantly, listening to operators feedback we have developed the perfect pitch for our flights. It will cut at its maximum efficiency and, most importantly the spoil will stay on your Auger when you remove it from the hole.

### **SHOCK LOCK™** Tooth Locking System

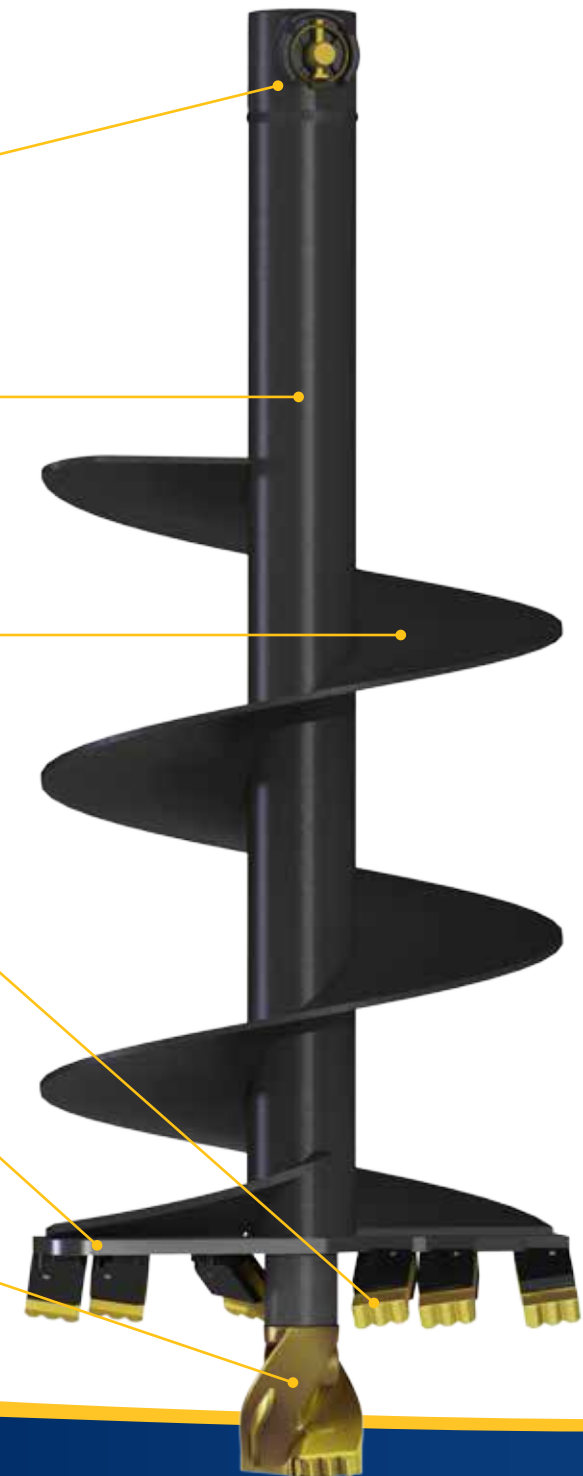
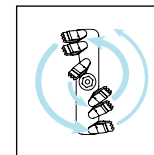
Are you tired of losing your teeth down the hole? With our patented **Shock Lock™** Tooth Locking System loss is now a thing of the past. The simple but effective locking pin holds teeth secure in both directions.

### CONSTANT SPIRAL CUT

Our boring heads are designed with a Constant Spiral Cut. Teeth are located so that each makes its own fresh cut on every revolution and are angled to direct spoil towards the centre of the auger. The tooth cutting angle ensures spoil is broken up thoroughly to avoid any clogging.

### PILOT AND TOOTH OPTIONS

Auger Torque Augers are offered with many different tooth and pilot options to suit your specific need. For example in the S4 range we offer up to eight different combinations and we have the know-how to help you select the optimal configuration.

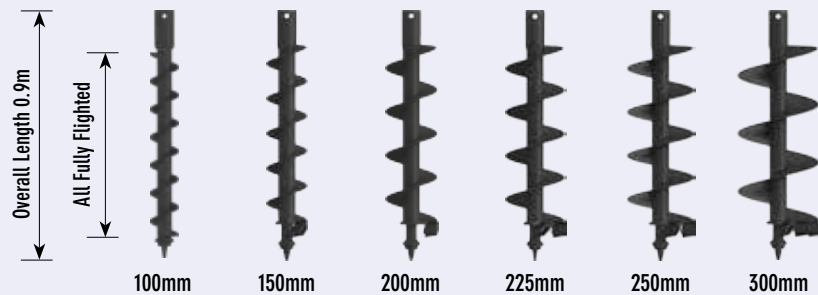


# S2 AUGERS

## MICRO EXCAVATORS 0.75 - 1 T

With our patented **Shock Lock™** Tooth Locking System tooth loss is now a thing of the past. Using the **Shock Lock™** pin and rubber in our unique **Shock Lock™** tooth holders ensures your Auger teeth are safely locked in place and protected against shock fractures.

Replacing worn teeth is a breeze with this system, simply knock out the old pin with a standard hole punch and the tooth will slide out of the holder with ease. Acclaimed as the best system on the market you will never need to worry about fitting spare teeth due to losing them again.



### HUB OPTIONS



50mm  
Round

Stihl  
Attachments

### EARTH WEAR PARTS



S2/4  
Earth Pilot  
33-9203-KIT

S2/4 Shock Lock™  
Earth Tooth  
33-9121-KIT

### TUNGSTEN WEAR PARTS



S2/4  
Tungsten Pilot  
33-9204-KIT

S2/4 Shock Lock™  
Tungsten Tooth  
33-9122-KIT

### EXTRAS



Pin & Clip  
50 Round  
42-1055-KIT

S1/2/4 Shock Lock™  
Tooth Holder  
33-1010

### WEAR PARTS FOR GROUND CONDITIONS

#### EARTH (Shock Lock™)

Best suited to soft grounds like earth and clay.

#### TUNGSTEN (Shock Lock™)

Best used in dry, hard or medium ground conditions where floating rocks may be encountered. The perfect all-rounder if you are not sure about what you might encounter.





# S4 AUGERS

MINI EXCAVATORS 1 - 5 T, MINI LOADERS,  
SKIDSTEER LOADERS UP TO 80HP AND  
TRUCK CRANES UP TO 9 T / METRE

## STANDARD HUB OPTION



65mm  
Round

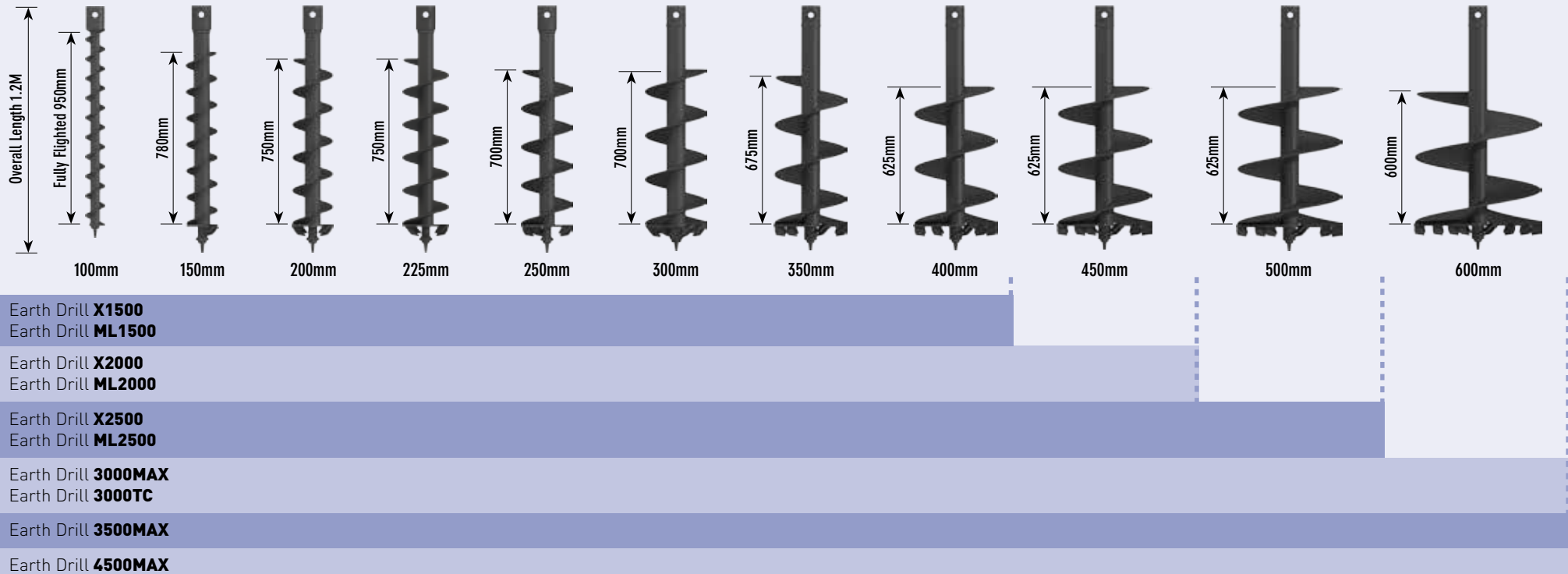
## SHOCK LOCK™ Tooth Locking System

DON'T LEAVE  
YOUR TEETH  
DOWN THE  
HOLE!



With our patented **Shock Lock™** Tooth Locking System tooth loss is now a thing of the past. Using the **Shock Lock™** pin and rubber insert in our unique **Shock Lock™** tooth holders ensures your Auger teeth are safely locked in place and protected against shock fractures.

Replacing worn teeth is a breeze with this system, simply knock out the old pin with a standard hole punch and the tooth will slide out of the holder with ease. Acclaimed as the best system on the market you will never need to worry about fitting spare teeth due to loss again.



## EARTH WEAR PARTS



S2/4  
Earth Pilot  
33-9203-KIT

S2/4 Shock Lock™  
Earth Tooth  
33-9121-KIT

## TUNGSTEN WEAR PARTS



S4  
Tungsten Pilot  
33-9204-KIT

S4  
Extra Dig Pilot  
33-9212-KIT

S4 Shock Lock™  
Tungsten Tooth  
33-9122-KIT

## EXTRAS



Pin & Clip  
65 Round  
30-0004-KIT

S1/2/4 Shock Lock™  
Tooth Holder  
33-1010

S4 Pilot  
Extension  
33-4106-KIT

S4 Drive Lugs  
33-4102  
33-4105  
33-4110

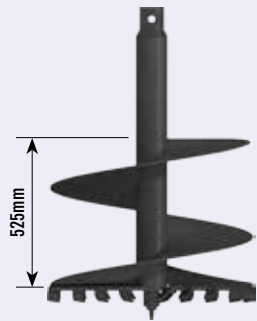
## BORING HEADS



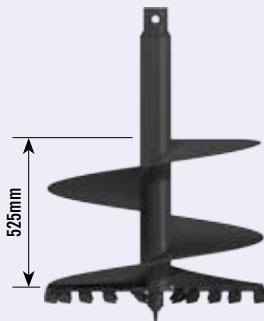
S4 Earth Teeth & Pilot

S4 Tungsten Teeth & Pilot

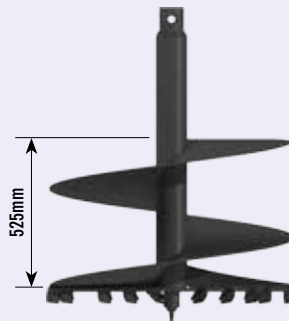
S4 Extra Dig Teeth & Pilot



750mm



800mm

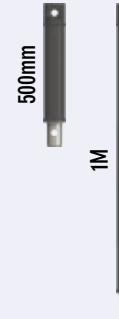


900mm

All the Augers above are shown with  
**Shock Lock™** Tooth Holders.

\* Overall Length given includes the  
auger fitted with wear parts.

## S4 EXTENSIONS



## WEAR PARTS REQUIRED FOR GROUND CONDITIONS

### EARTH (Shock Lock™)

Best suited to soft grounds like earth and clay.

### TUNGSTEN (Shock Lock™)

Best used in dry, hard or medium ground conditions where floating rocks may be encountered. The perfect all-rounder if you are not sure about what you might encounter.

### EXTRA DIG PILOT

A stronger Pilot for more demanding ground conditions.

OTHER  
DIAMETERS  
AVAILABLE ON  
REQUEST

# S5 AUGERS

EXCAVATORS FROM 4.5 - 8 T, TELEHANDLERS,  
HIGH FLOW SKIDSTEER LOADERS, BACKHOES  
AND TRUCK CRANES FROM 9 - 18 T / METRE

## STANDARD HUB OPTION



75mm  
Square

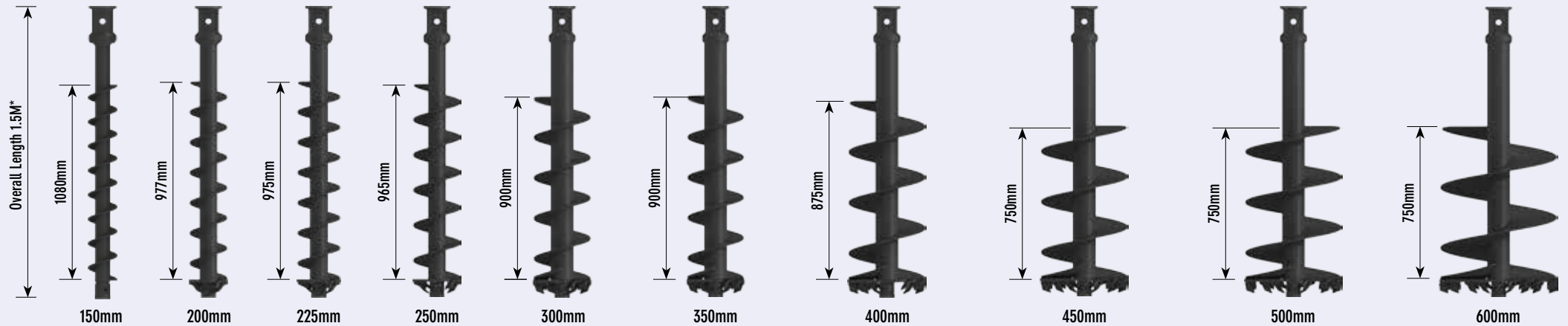
## SHOCK LOCK™ Tooth Locking System

DON'T LEAVE  
YOUR TEETH  
DOWN THE  
HOLE!



With our patented **Shock Lock™** Tooth Locking System tooth loss is now a thing of the past. Using the **Shock Lock™** pin and rubber insert in our unique **Shock Lock™** tooth holders ensures your Auger teeth are safely locked in place and protected against shock fractures.

Replacing worn teeth is a breeze with this system, simply knock out the old pin with a standard hole punch and the tooth will slide out of the holder with ease. Acclaimed as the best system on the market you will never need to worry about fitting spare teeth due to loss again.



Earth Drill **5500MAX**

Earth Drill **5000TC**

Earth Drill **7000MAX**

Earth Drill **7000TC**

Earth Drill **8000MAX**



## EARTH WEAR PARTS



S5/6 Earth Pilot  
33-9205-KIT

S5/6 Shock Lock™ Earth Tooth  
33-9126-KIT

## TUNGSTEN WEAR PARTS



S5/6 Tungsten Pilot  
33-9206-KIT

S5/6 Shock Lock™ Tungsten Tooth  
33-9127-KIT

## ROCK WEAR PARTS



S5/6 Rock Pilot  
33-9207-KIT

S5/6 Rock Tooth  
33-9107

## EXTRAS



Pin & Clip  
57/75 Square  
30-0002-KIT

S5/6 Shock Lock™ Tooth Holder  
33-1011

S5/6 Rock Tooth Holder  
33-1013

S5/6 Drive Socket  
1 3/4" Hex  
33-4103

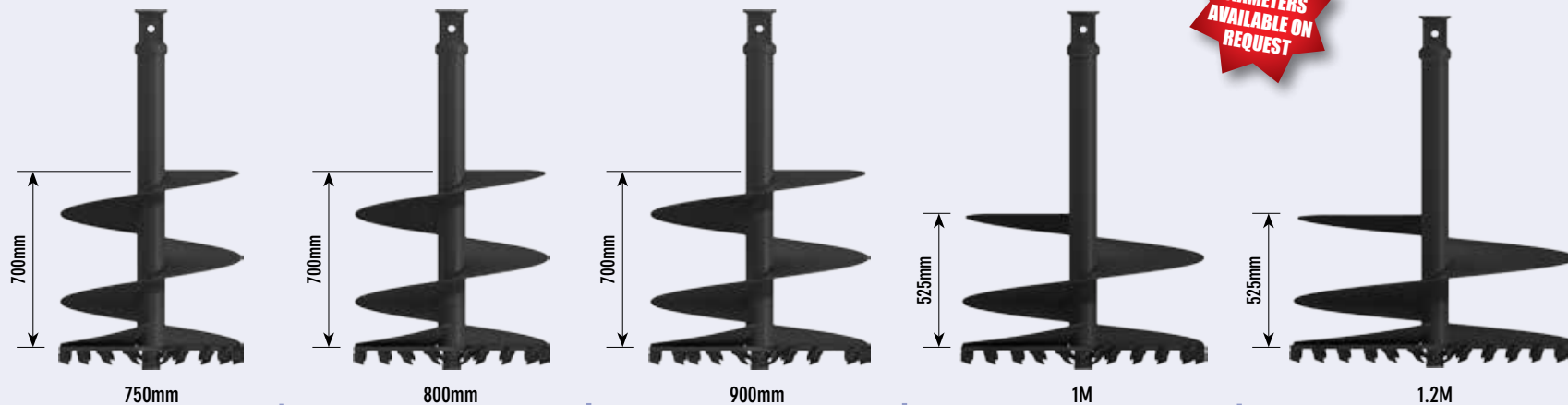
## BORING HEADS



S5/6 Earth Teeth & Pilot

S5/6 Tungsten Teeth & Pilot

S5/6 Rock Teeth & Pilot



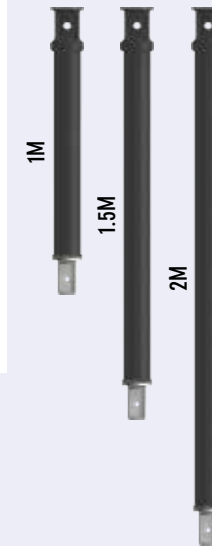
OTHER  
DIAMETERS  
AVAILABLE ON  
REQUEST

All the Augers above are shown with **Shock Lock™** Tooth Holders. Rock Teeth require a Rock Tooth version of the Auger.

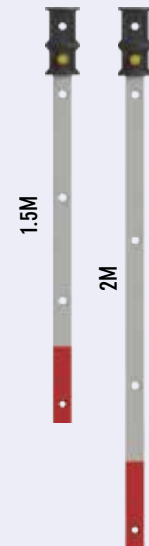
\* Overall Length given includes the auger fitted with wear parts.

Augers over 1m - special order up to 1.2m

## S5 EXTENSIONS



## S5 TELESCOPIC



**Note:**  
S5 Telescopic extensions only suitable for torques up to 16,000Nm.

S5 Telescopic extensions not suitable for 150 - 250mm diameter augers.

For Augers over 1 metre diameter please call our sales office for further information.

## WEAR PARTS FOR GROUND CONDITIONS

### EARTH (Shock Lock™)

Best suited to soft grounds like earth and clay.

### TUNGSTEN (Shock Lock™)

Best used in dry, hard or medium ground conditions where floating rocks may be encountered. The perfect all-rounder if you are not sure about what you might encounter.

### ROCK (Taper Lock)

For very hard ground and tarmac where extra cutting is needed and high wear is expected. Most effective on machines with high down pressure.

# S6 AUGERS

EXCAVATORS & BACKHOES FROM 8 - 22 T

## STANDARD HUB OPTION



75mm  
Square

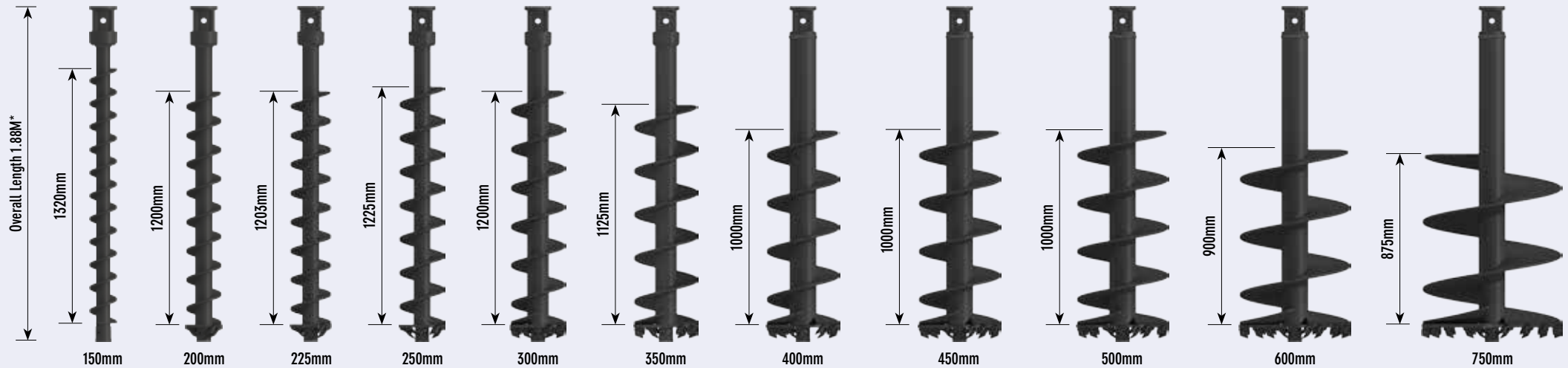
## SHOCK LOCK™ Tooth Locking System

DON'T LEAVE  
YOUR TEETH  
DOWN THE  
HOLE!



With our patented **Shock Lock™** Tooth Locking System tooth loss is now a thing of the past. Using the **Shock Lock™** pin and rubber insert in our unique **Shock Lock™** tooth holders ensures your Auger teeth are safely locked in place and protected against shock fractures.

Replacing worn teeth is a breeze with this system, simply knock out the old pin with a standard hole punch and the tooth will slide out of the holder with ease. Acclaimed as the best system on the market you will never need to worry about fitting spare teeth due to loss again.



Earth Drill **10 000**

Earth Drill **12 000MAX**

Earth Drill **15 000MAX**

Earth Drill **20 000MAX**

Earth Drill **25 000MAX**

## EARTH WEAR PARTS



S5/6 Earth Pilot  
33-9205-KIT

S5/6 Shock Lock™ Earth Tooth  
33-9126-KIT

## TUNGSTEN WEAR PARTS



S5/6 Tungsten Pilot  
33-9206-KIT

S5/6 Shock Lock™ Tungsten Tooth  
33-9127-KIT

## ROCK WEAR PARTS



S5/6 Rock Pilot  
33-9207-KIT

S5/6 Rock Tooth  
33-9107

## EXTRAS



Pin & Clip  
57/75 Square  
30-0002-KIT

S5/6 Shock Lock™ Tooth Holder  
33-1011

S5/6 Rock Tooth Holder  
33-1013

S5/6 Drive Socket  
1 3/4" Hex  
33-4103

## BORING HEADS



S5/6 Earth Teeth & Pilot

S5/6 Tungsten Teeth & Pilot

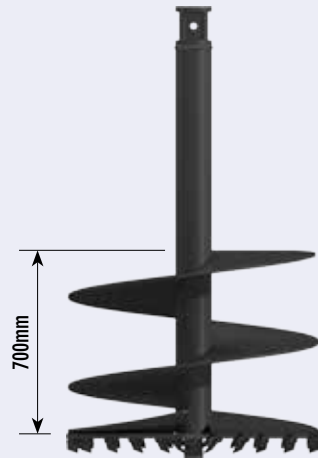
S5/6 Rock Teeth & Pilot



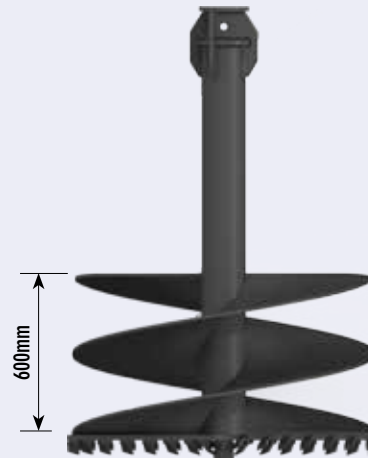
800mm



900mm



1M



1.2M

All the Augers above are shown with **Shock Lock™** Tooth Holders. Rock Teeth require a Rock Tooth version of the Auger.

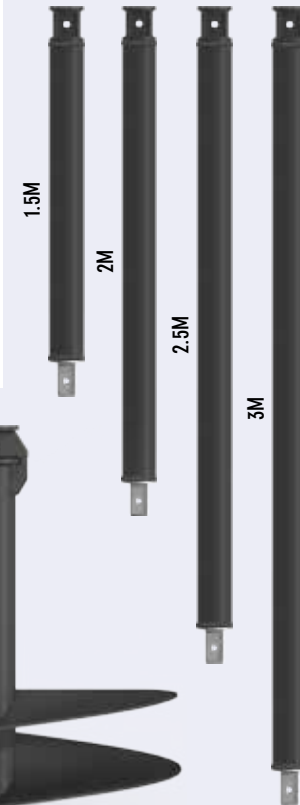
\* Overall Length given includes the auger fitted with wear parts.



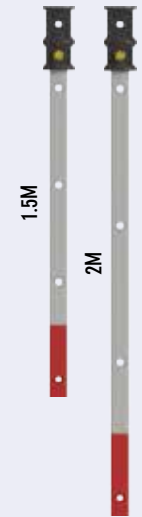
1.5M

Augers of a larger diameter and length can be manufactured for use with these Earth Drills, but technical advice is required. Call one of our main offices for more details.

## S6 EXTENSIONS



## S6 TELESCOPIC



**Note:**  
S6 Telescopic extensions only suitable for torques up to 16,000Nm.

S6 Telescopic extensions not suitable for 150 - 250mm diameter augers.

**OTHER DIAMETERS AVAILABLE ON REQUEST**

## WEAR PARTS FOR GROUND CONDITIONS

### EARTH (Shock Lock™)

Best suited to soft grounds like earth and clay.

### TUNGSTEN (Shock Lock™)

Best used in dry, hard or medium ground conditions where floating rocks may be encountered. The perfect all-rounder if you are not sure about what you might encounter.

### ROCK (Taper Lock)

For very hard ground and tarmac where extra cutting is needed and high wear is expected. Most effective on machines with high down pressure.



# PA AUGERS

EXCAVATORS 17 - 45 T

## STANDARD HUB OPTION



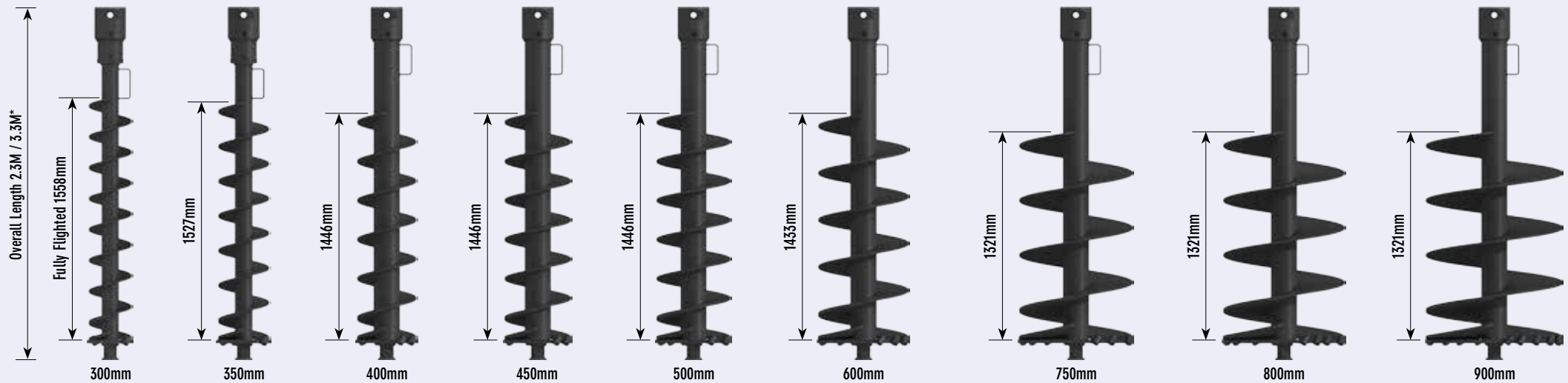
110mm  
Square

**PA Augers are available  
in 2.3 metre or 3.3 metre  
lengths as standard -  
Please specify when  
ordering**



The PA Range of Augers are the most heavy-duty units available and are available in 2.3 metre and 3.3 metre lengths as standard. Fully flighted versions are available also.

Our standard PA Auger range has a maximum diameter of 1.5m however Augers with a diameter of up to 2.4m can be manufactured on request. Contact our sales office for further information.



Earth Drill **35 000MAX**

Earth Drill **42 000MAX**

Earth Drill **65 000MAX**

## EARTH WEAR PARTS



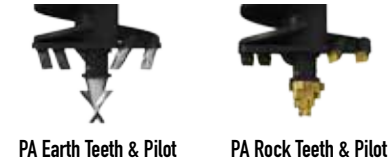
## ROCK WEAR PARTS



## EXTRAS



## BORING HEADS

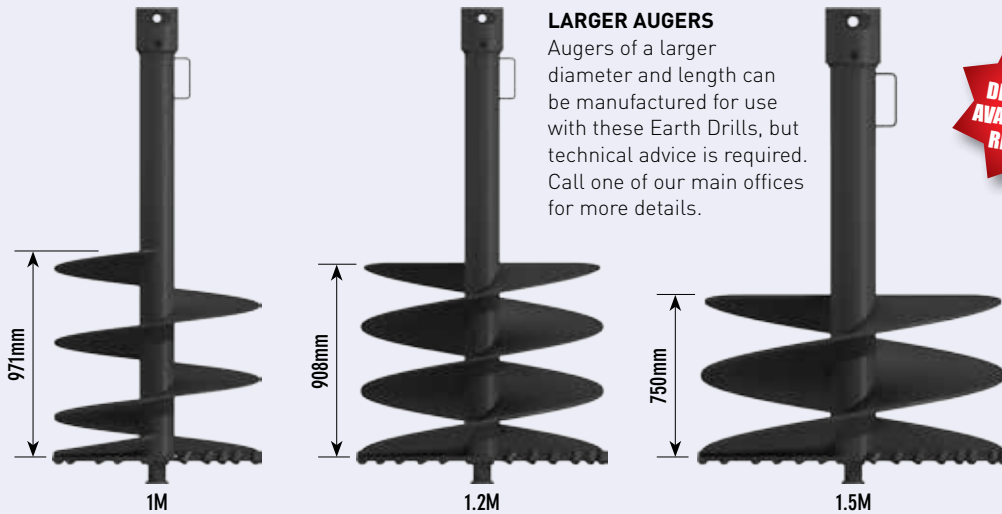


The PA Rock Pilot can be purchased in separate sections or as a whole assembly when buying replacement parts.

### LARGER AUGERS

Augers of a larger diameter and length can be manufactured for use with these Earth Drills, but technical advice is required. Call one of our main offices for more details.

OTHER  
DIAMETERS  
AVAILABLE ON  
REQUEST

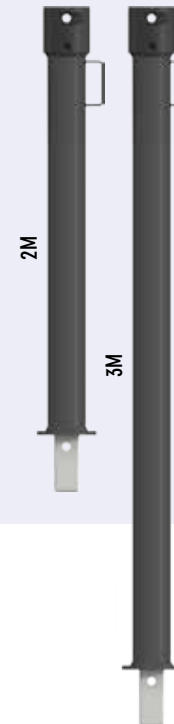


Augers over 1.2m - special order up to 1.8m

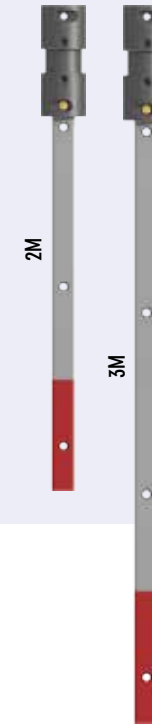
\* Overall Length given includes the auger fitted with wear parts.

For Augers over 1.2 metres diameter please call one of our sales offices for further information.

### PA EXTENSIONS



### PA TELESCOPIC



## WEAR PARTS FOR GROUND CONDITIONS

### EARTH (Taper Lock)

Best suited to soft grounds like earth and clay.

### ROCK (Taper Lock)

For very hard ground and tarmac where extra cutting is needed and high wear is expected. Most effective on machines with high down pressure.

# Hard Rock Auger

For the most demanding drilling situations

## HUB OPTIONS

Tapered Rock Augers are available in 3 popular sizes;  
75mm and 110mm Square.

## HEAVY DUTY TUBE

We know that the Hard Rock Auger range will be used for the toughest applications so we only use the highest grade steel and vary our tube size according to machine size and application.

## SHALLOW PITCH FLIGHTS

By working with and, more importantly, listening to operators feedback we have developed the perfect pitch for our flights. It will cut at its maximum efficiency and, most importantly the spoil will stay on your cutting head when you remove it from the hole.

## TAPERED CUTTING PATH

Our cutting heads are designed with a Constant Spiral Cut. Teeth are located so that each makes its own fresh cut on every revolution and are angled to direct spoil towards the centre of the Cutting Head. The tooth cutting angle ensures spoil is broken up thoroughly to avoid any clogging.

## ROCK PILOT AND TOOTH

Auger Torque Tapered Cutting Heads are offered with our rotating Rock tooth and pilot to suit your hard rock need.





## FEATURES

- Drilling performance is increased due to precisely calculated tooth positions along the edges of the cutting head
- Improved productivity when cutting through hard ground and fractured rock
- The positioning of the teeth increases the penetrative forces which can be found on the tooth cutting edge
- This increase in force fractures the substrate into large pieces bringing them to the surface at an increased rate compared to traditional cutting heads





# Truck Cranes & The Rope Wind Hitch

Growing in popularity, truck cranes allow a great deal of flexibility when working off site. On-board hydraulics allow trucks to deliver materials where no loading facilities are available.

Equally, remote working can be made easy by using the truck crane boom for earth drilling operations. Flat bed trucks equipped with Truck Crane Earth Drills turn telegraph and power pole as well as street light installations into a single man operation and foundation piling can all be facilitated with the use of one vehicle.

The ingenious Auger Torque Rope Wind Hitch allows for safe and secure storage during transit without the need to disassemble the unit from the boom.

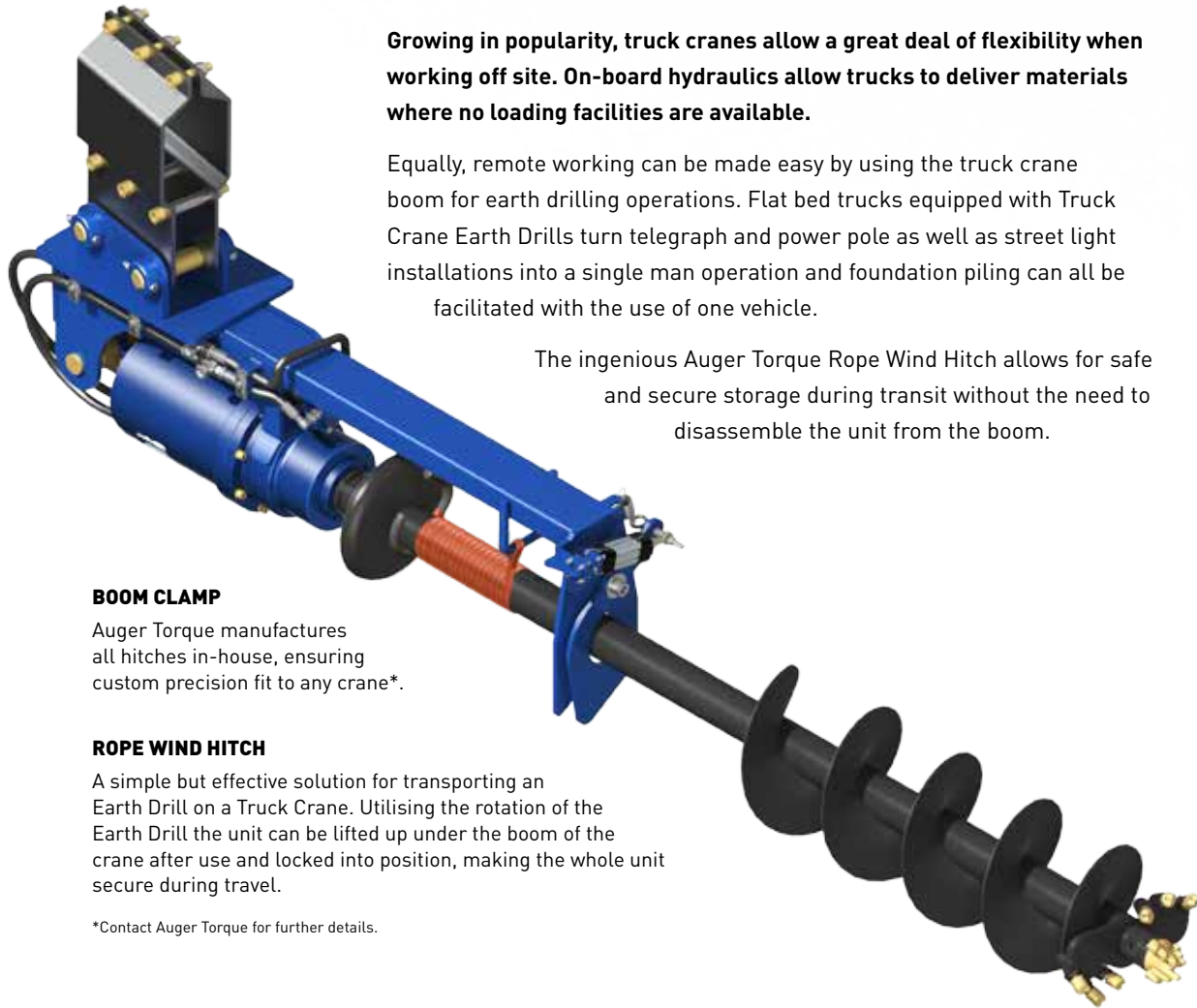
## BOOM CLAMP

Auger Torque manufactures all hitches in-house, ensuring custom precision fit to any crane\*.

## ROPE WIND HITCH

A simple but effective solution for transporting an Earth Drill on a Truck Crane. Utilising the rotation of the Earth Drill the unit can be lifted up under the boom of the crane after use and locked into position, making the whole unit secure during travel.

\*Contact Auger Torque for further details.



# PROVEN RELIABILITY IN EXTREMELY DEMANDING CONDITIONS





# Mast-Based Drilling Rig

A quick and efficient attachment for precise and accurate drilling of large depth holes.

## FEATURES

- Precision-engineered gearbox
- Interchangeable hitch assembly
- High grade cable tension assembly
- High tensile galvanised steel winch cable
- Hose guide rail for neat hose connections
- Easy access pulley grease points

## APPLICATIONS

- Pre-drilling for pile driving
- Dewatering
- Auger cast piles
- Marine foundations
- Permanent retaining walls
- Exploration and research

### GUIDE TO DRILLING PERFORMANCE\*

#### Continuous Flight Auger

AUGER DIA (mm)	DRILLING DEPTH IN METRES**		
	SOFT	MEDIUM	HARD
150	18.3M	12.2M	12.2M
200	18.3M	12.2M	12.2M
250	12.2M	12.2M	12.2M
300	12.2M	9.2M	9.2M

#### Short Auger

AUGER DIA (mm)	DRILLING DEPTH IN METRES**	
	MEDIUM	HARD
300	6.4M	6.4M
450		
600		
750		
900	6.4M	6.4M

## MDR6500

### EXCAVATORS 12 - 15 T

#### DRILL HEAD

Torque Range:	2,717-8,152 Nm	Unit Height: 6990 mm
Oil Pressure Range:	80-240 Bar	Unit Width: 1250 mm
Oil Flow Range:	70-150 lpm	Unit Depth: 1500 mm
Speed Range:	33-70 rpm	Total Weight (excluding auger): 1450 kg

#### WINCH

Cable Pull Speed:	2.4-18.3 m/min
Oil Pressure Range:	35-207 Bar
Oil Flow Range:	11-95 lpm



# Screw Pile Installations



**Many of Auger Torque's Earth Drills, from the robust Earth Drill 10,000 upwards, are excellent tools for screw pile installation due to their high levels of torque and range of rotational speed.**

Couple this with the all new electronic torque metering linkage block which has an accuracy rating of over 99% and you have all you need for fast and precise Screw Pile installation.

Screw piles can be used as a steel foundation solution for railway and highway installations, masts, towers, cantilever gantries, platforms, lighting columns and sign posts. They support structures in both tension and compression, providing an ideal solution where overturning forces are significant or when ground conditions aren't suitable for other methods of foundation.

Quick and easy to install, in many cases the piles and associated structures can be installed in a day. Using the torque metering linkage block, applied torques can be displayed and logged for data analysis.

Made from galvanised steel, Screw Piles are also maintenance free and reusable after removal from temporary installations.

## **BENEFITS OF SCREW PILES INCLUDE:**

- Quick and easy to install
- No concrete mixing or curing time
- No excavations needed or spoil to remove
- Suitable for soft or mixed composite ground
- Installations possible in low temperatures and wet conditions
- Can be installed around existing underground services
- Removable and re-useable

**Screw Piles can be made to customers own specifications - talk to your closest Auger Torque main office for more information.**

# Screw Pile Torque Heads

## A new era in the world of Screw Pile Torque Heads

Auger Torque is proud to announce the release of our brand new XHT Series Torque Heads. Specifically designed and ideally suited to foundation screw pile applications this series heralds a new era in the world of screw pile torque heads.

The new torque heads are available to suit machines from as little as 24T all the way to 50T and are designed and manufactured in-house at Auger Torque's UK facility, guaranteeing class leading workmanship and the reliability Auger Torque is famous for.

### INTEGRAL GEAR OIL COOLING

Our unique design allows for efficient oil cooling via auto circulation of the fluid without the need for an external mechanical pump. This system effectively protects your investment during extreme high torque screw pile applications.

### EPICYCLIC GEARBOX

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

### HIGH QUALITY HYDRAULIC MOTORS

As with our Earth Drill range, we use the highest quality suppliers to develop the most reliable attachments available on the market today.

### NON-DISLODGE SHAFT

Unique to Auger Torque, the Non-Dislodgement Shaft is a single piece drive shaft assembled top down and locked into the XHT Torque Head 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.



**BENT AXIS PISTON MOTOR**

**INTEGRAL GEAR OIL COOLING SYSTEM**

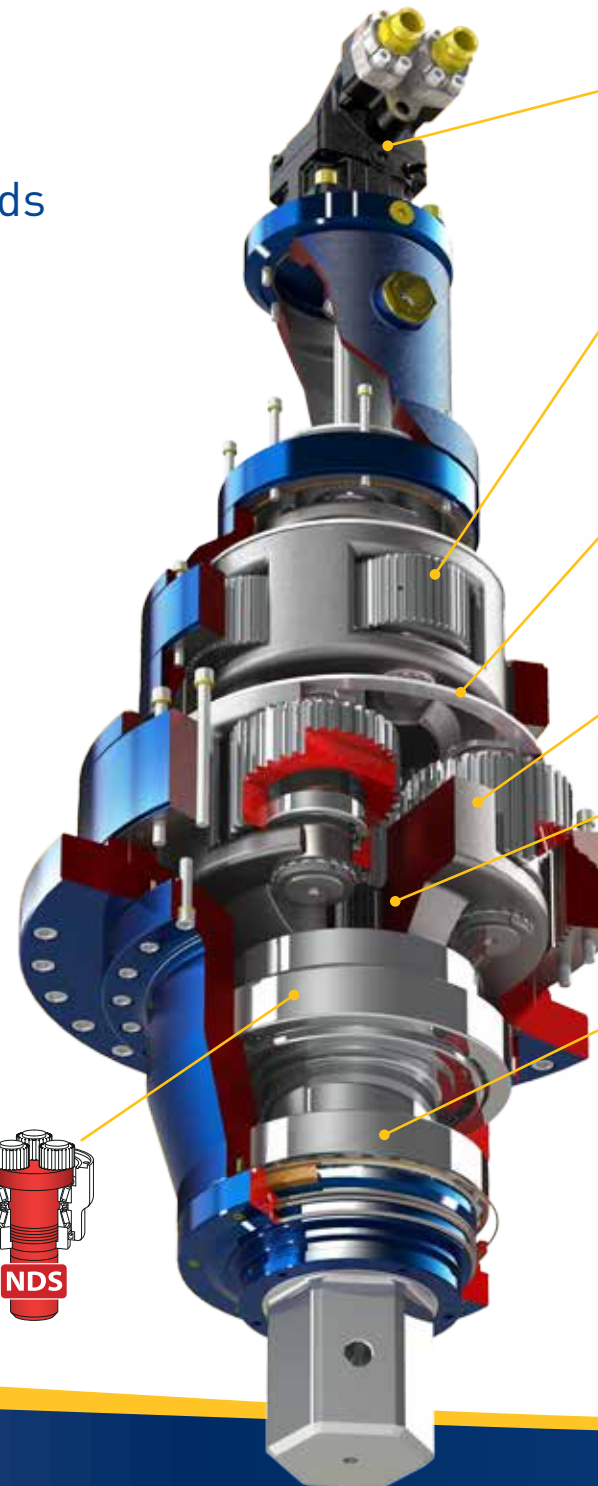
(DESIGNED FOR LONG DUTY CYCLES)

**CARRIER RISE SUPPRESSION SYSTEM**

**MODULAR GEAR CARRIERS**

**HYBRID OIL CIRCULATION SYSTEM**

**OVER ENGINEERED BEARINGS**



**WATCH VIDEO**



# XHT Torque Heads

## 150XHT

### EXCAVATORS 24 - 50 T

Torque Range: 64,830-150,690 Nm  
 Oil Pressure Range: 160-360 Bar  
 Oil Flow Range: 100-320 lpm  
 Speed Range: 4-12 rpm  
 Unit Height: 2166mm  
 Unit Diameter: 825mm  
 Unit Weight: 2400 kg  
 Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Double Pin Cradle Hitch  
 Output Shaft: 180mm Hex



Double Pin  
Cradle Hitch



180mm Hex

## 250XHT

### EXCAVATORS 24 - 50 T

Torque Range: 144,662-249,140 Nm  
 Oil Pressure Range: 180-310 Bar  
 Oil Flow Range: 80-225 lpm  
 Speed Range: 1.8-4 rpm  
 Unit Height: 2166mm  
 Unit Diameter: 825mm  
 Unit Weight: 2400 kg  
 Hitch Options: Single Pin Hitch  
 Double Pin Hitch  
 Double Pin Cradle Hitch  
 Output Shaft: 180mm Hex



Double Pin  
Cradle Hitch



180mm Hex



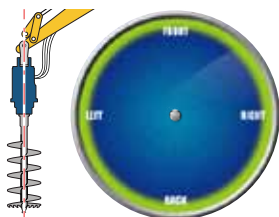
# Alignment Monitor

**When accuracy is key, The Auger Torque Alignment Monitor is an essential tool for ensuring your application is precise and quick.**

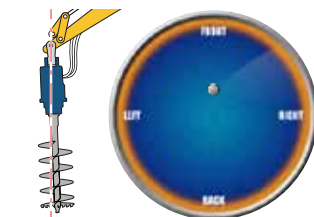
Unrestricted by parent machine size, the Alignment Monitor is easy to install with your existing equipment. Now the operator can see the alignment from all angles, there's no need for additional operatives to watch over the installation.

## FEATURES

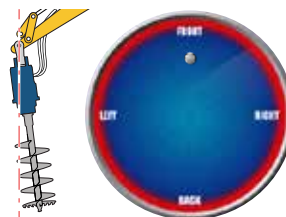
- One man operation
- Plug and play capability
- Alignment display easily installed in operator cab
- A compact, bright colour interface
- Alignment sensor fits to your existing earth drill
- Sensitivity adjustment to suit the application
- IP54 rated - suitable for use in all weathers
- 12-24V operating range



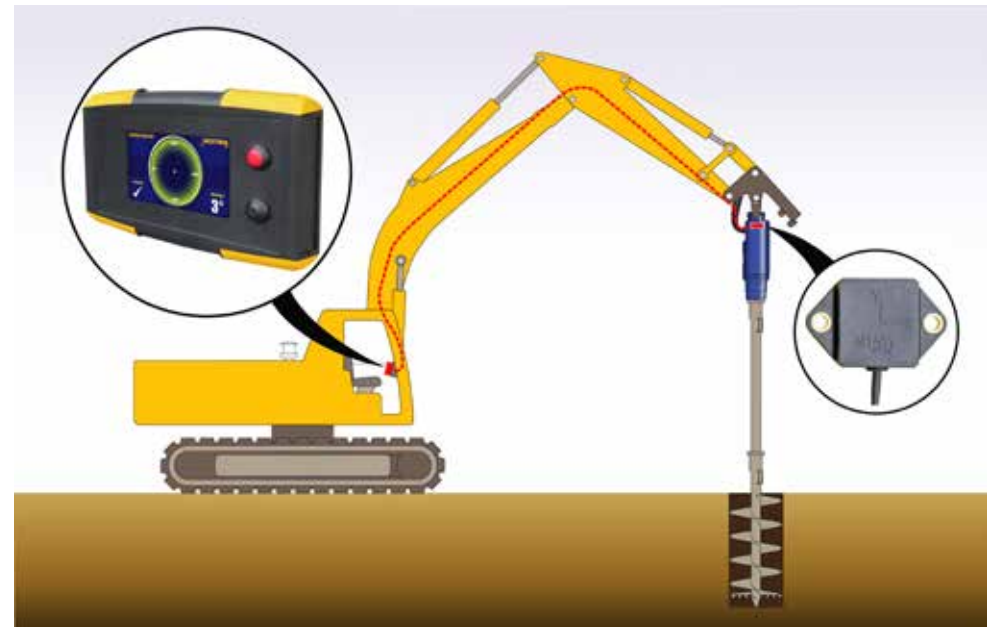
Application is aligned



Application is moving out of alignment



Application is out of alignment







# Torque Monitor

**Applying the correct torque during the installation of Screw Piles is paramount to ensure the structure is safely secured.**

Receiving applied torque data in real-time, which is accurate to 99.7% for this critical procedure is made easy with this new Auger Torque device.

Compatible with the majority of our Earth Drills, the Torque Monitors can measure values up to 65,000Nm. The sophisticated sensors inside send instant data to a hand-held PDA, allowing operators to work with ultimate efficiency.

## FEATURES

- Measure up to 65,000Nm
- Quick and easy to install
- Correct torque measurement when installing screw anchors to an accuracy of 99.7%
- Allows operators to work with ultimate efficiency
- Wireless transmission
- Real time data transfer
- Compatible with Auger Torque and OEM earth drills

\*XHT250: mount onto output shaft



## TM25

Torque Range: 5,000–25,000 Nm  
 Earth Drill Range: 10,000–25,000MAX  
 Unit Height: 430mm  
 Unit Diameter: 270mm  
 Unit Weight: 59kg  
 Hitch Connection: Single Pin  
 Pin Diameter: 45mm  
 Optional Extras: Handheld PDA



## TM65

Torque Range: up to 65,000 Nm  
 Earth Drill Range: 30,000MAX–50,000MAX  
 Unit Height: 510mm  
 Unit Diameter: 290mm  
 Unit Weight: 80kg  
 Hitch Connection: Single Pin  
 Pin Diameter: 60mm  
 Optional Extras: Handheld PDA





# TRENCHER ATTACHMENTS

## Features of our Trenchers

### HIGH QUALITY MOTOR AND GEARBOX

Using only the highest quality hydraulic motors that allow flow rates of up to 150LPM and then amplified by Auger Torque's own 'bullet-proof' planetary gearbox means that our trenchers have the reliability you need and the power to ensure your trenching is carried out with ease.

### EPICYCLIC GEARBOX

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

### HOSE & ADAPTOR OPTIONS

All Trenchers are supplied as standard with high quality hoses and adaptors.

### MULTIPLE TEETH COMBINATIONS

Chains are available in a number of different teeth configurations for trenching in soft ground, mixed grounds and even permafrost, allowing you to get the job done quickly.

### ADJUSTABLE DEPTH SKID

A great feature that will make your job much easier is the precision depth control skid, which enables the operator to set the machine at up to three different trench depths.

### RAPID CHAIN ADJUSTMENT

Utilising a simple grease point and grease gun, chain adjustment is quicker than ever.



# The days of your trenching bucket may well be over.

The laborious task of digging a trench has been transformed since the advent of the Trencher Attachment.

Suitable for Skidsteer Loaders and Excavators, Auger Torque's range of Trenchers cover depths from 0.6 to 1.5 meters and widths up to 350mm. The spoil is piled neatly to one side of the trench by the integral auger.

Experience how Trencher Attachments can make light work of your construction project.

## Multiple applications including:-

- Ground Heat Pump Systems
- Drainage & Irrigation
- Gas / Water Piping
- Electrical Cable
- Fibre Optic Cable
- Larger Bore Gas / Water Piping
- Hedge & Tree Planting



**WATCH  
VIDEO**

# MT Trencher Range

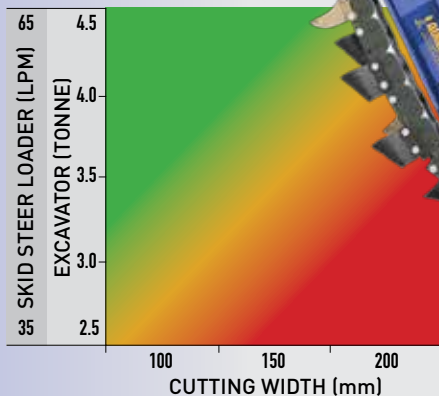


## EXCAVATORS 2.5 - 4.5 T & SKIDSTEER LOADERS

For Trenches  
300-600mm Depth

Oil Pressure Range: 160-240 Bar  
Oil Flow Range: 35-65 lpm  
Unit Width: 850mm  
Unit Height: 736mm  
Unit Length: 1465mm  
Cutting Width Range: 100-300mm

Technical data may be subject  
to change without notice.

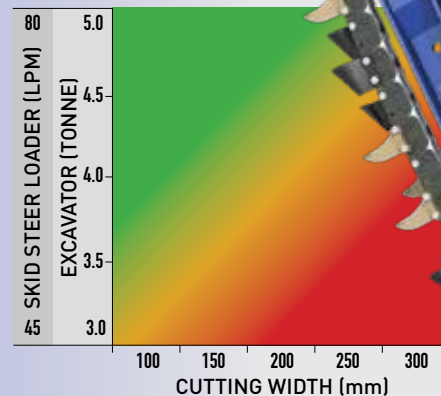
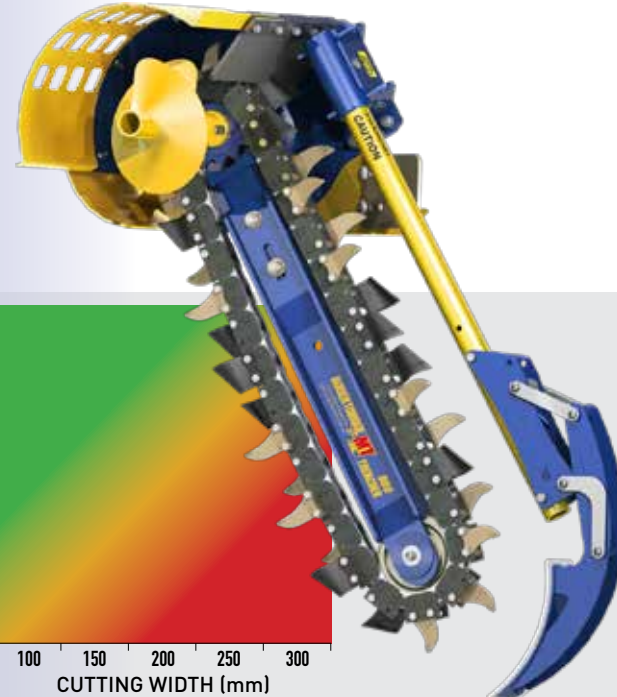


## EXCAVATORS 3 - 5 T & SKIDSTEER LOADERS

For Trenches  
600-900mm Depth

Oil Pressure Range: 180-240 Bar  
Oil Flow Range: 45-80 lpm  
Unit Width: 850mm  
Unit Height: 736mm  
Unit Length: 1800mm  
Cutting Width Range: 100-300mm

Technical data may be subject  
to change without notice.



■ IDEALLY SUITED ■ SUITABLE ■ NOT SUITED

### EARTH WEAR PARTS



Earth Tooth  
Left Hand  
44-2010



Earth Tooth  
Right Hand  
44-2011

### TUNGSTEN WEAR PARTS



Tungsten Tooth  
Left Hand  
44-2001



Tungsten Tooth  
Centre  
44-2002



Tungsten Tooth  
Right Hand  
44-2003

### BOOM SPARE PARTS



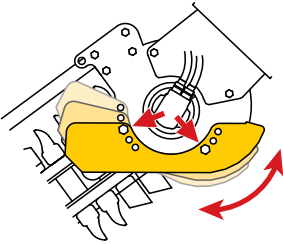
MT Sprocket  
42-1033



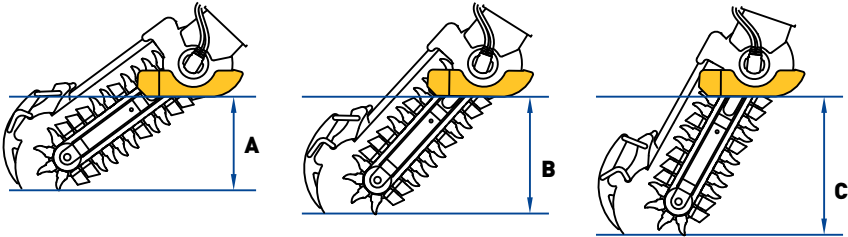
Nose Roller,  
Bearing &  
Circlip Kit  
42-1900-KIT



TRENCH DEPTH CAPABILITY



Adjustable Depth-control Skid allows for 3 different depth settings



	DEPTH A	DEPTH B	DEPTH C
MT 600	300mm	450mm	600mm
MT 900	600mm	750mm	900mm

MOUNTING HITCH OPTIONS

Three versions of mounting hitches are available;

SIDE SHIFT FRAME

For Skidsteer Loaders

MINI LOADER FRAME

for Mini Loaders

EXCAVATOR HITCH

Available in several pin sizes to fit most machines.

Pin diameter options

30mm:	15-53000
35mm	15-53500
40mm	15-54000
45mm	15-54500

GROUND CONDITIONS

EARTH

Best suited to soft grounds like earth and clay.

COMBINATION

Best used in dry, hard or medium ground conditions.

TUNGSTEN

Best used in dry, hard ground conditions.

CHAIN OPTIONS

There are a choice of 3 chain options for each machine to allow for differing ground conditions. Check the chain widths available against Auger Torque charts, price lists and specifications.



EARTH  
Soft Ground



COMBINATION  
Mixed Terrain



TUNGSTEN  
Hard Ground /  
Frozen

CHAIN WIDTH OPTIONS

	100mm	150mm	200mm	250mm	300mm
MT 600 Earth	44-2901	44-2903	44-2905	44-2940	44-2936
MT 600 Combination	44-2902	44-2904	44-2906	44-2919	44-2937
MT 600 Tungsten	44-2918	44-2913	44-2914	44-2945	44-2938
MT 900 Earth	44-2907	44-2909	44-2911	44-2939	44-2933
MT 900 Combination	44-2908	44-2910	44-2912	44-2915	44-2934
MT 900 Tungsten	44-2916	44-2920	44-2921	44-2941	44-2935



# XHD Trencher Range

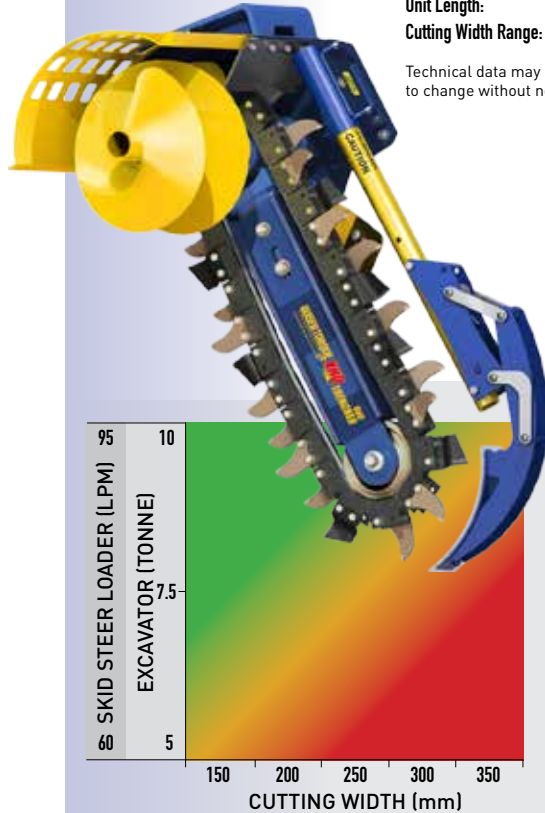
**XHD TRENCHER** 900

## EXCAVATORS 5 - 10 T & SKIDSTEER LOADERS

For Trenches  
600-900mm Depth

Oil Pressure Range: 180-240 Bar  
Oil Flow Range: 60-95 lpm  
Unit Width: 1018mm  
Unit Height: 808mm  
Unit Length: 1962mm  
Cutting Width Range: 150-350mm

Technical data may be subject  
to change without notice.



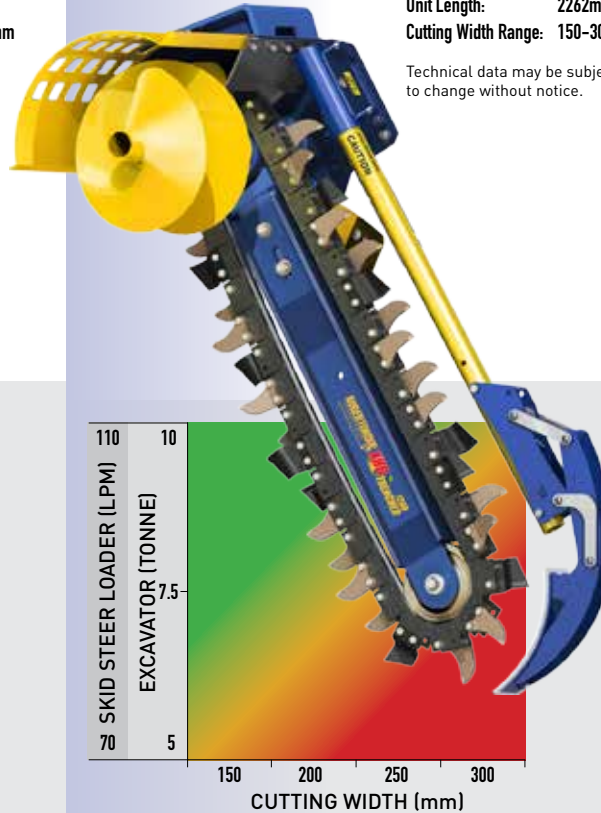
**XHD TRENCHER** 1200

## EXCAVATORS 5 - 10 T & SKIDSTEER LOADERS

For Trenches  
800-1200mm Depth

Oil Pressure Range: 180-240 Bar  
Oil Flow Range: 70-110 lpm  
Unit Width: 1018mm  
Unit Height: 808mm  
Unit Length: 2262mm  
Cutting Width Range: 150-300mm

Technical data may be subject  
to change without notice.



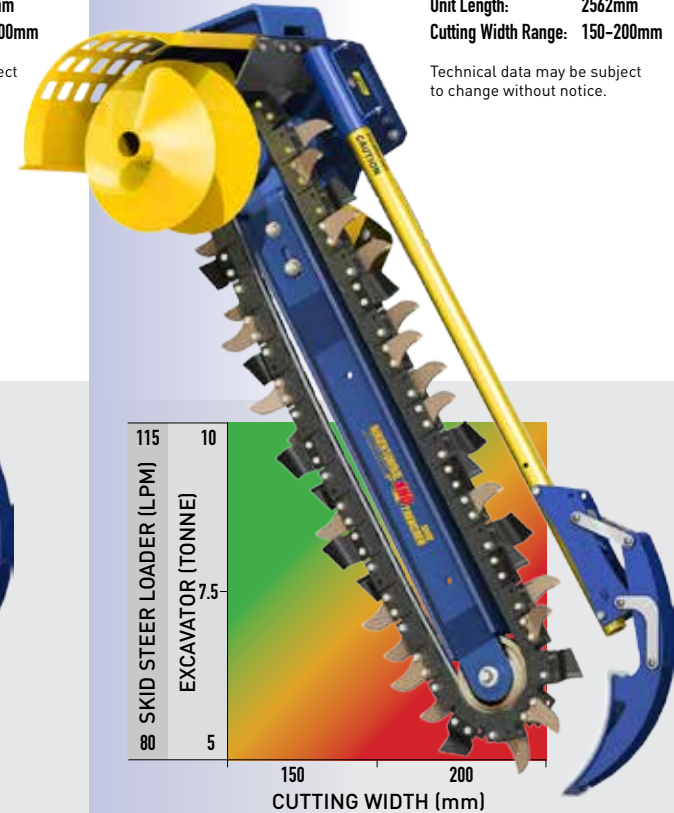
**XHD TRENCHER** 1500

## EXCAVATORS 5 - 10 T & SKIDSTEER LOADERS

For Trenches  
1000-1500mm Depth

Pressure: 180-240 Bar  
Oil Flow Range: 80-115 lpm  
Unit Width: 1018mm  
Unit Height: 808mm  
Unit Length: 2562mm  
Cutting Width Range: 150-200mm

Technical data may be subject  
to change without notice.



■ IDEALLY SUITED ■ SUITABLE ■ NOT SUITED

### EARTH WEAR PARTS



### TUNGSTEN WEAR PARTS

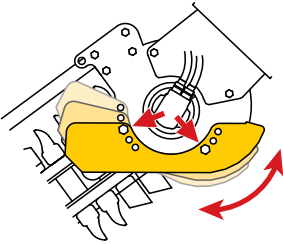


### BOOM SPARE PARTS

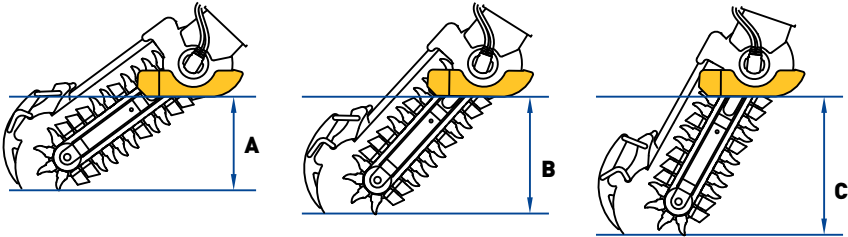




TRENCH DEPTH CAPABILITY



Adjustable Depth-control Skid allows for 3 different depth settings



	DEPTH A	DEPTH B	DEPTH C
XHD 900	600mm	750mm	900mm
XHD 1200	800mm	1000mm	1200mm
XHD 1500	1000mm	1250mm	1500mm

MOUNTING HITCH OPTIONS

Three versions of mounting hitches are available;

**SIDE SHIFT FRAME**  
For Skidsteer Loaders

**MINI LOADER FRAME**  
for Mini Loaders

**EXCAVATOR HITCH**  
Available in several pin sizes to fit most machines.

**Pin diameter options**  
40mm 15-64000  
45mm 15-64500  
50mm 15-65000  
55mm 15-65500  
60mm 15-66000  
65mm 15-66500

GROUND CONDITIONS

- EARTH**  
Best suited to soft grounds like earth and clay.
- COMBINATION**  
Best used in dry, hard or medium ground conditions.
- TUNGSTEN**  
Best used in dry, hard ground conditions.

CHAIN OPTIONS

There are a choice of 3 chain options for each machine to allow for differing ground conditions. Check the chain widths available against Auger Torque charts, price lists and specifications.



CHAIN WIDTH OPTIONS

	150mm	200mm	250mm	300mm	350mm
XHD 900 Earth	44-3904	44-3907	44-3910	44-3913	44-3916
XHD 900 Combination	44-3905	44-3908	44-3911	44-3914	44-3917
XHD 900 Tungsten	44-3906	44-3909	44-3912	44-3915	44-3918
XHD 1200 Earth	44-3922	44-3925	44-3928	44-3931	-
XHD 1200 Combination	44-3923	44-3926	44-3929	44-3932	-
XHD 1200 Tungsten	44-3924	44-3927	44-3930	44-3933	-
XHD 1500 Earth	44-3937	44-3940	-	-	-
XHD 1500 Combination	44-3938	44-3941	-	-	-
XHD 1500 Tungsten	44-3939	44-3942	-	-	-





# Sweeper Broom

**Auger Torque Sweeper Brooms make site clearance a breeze. Offering easy adjustment, simple brush replacement, high quality hydraulic motors and low maintenance design are just a few of the features.**

With the optional high capacity, low profile water spray system for keeping airborne dust to a minimum, our brooms really do stand out from the rest.

Available for Skid Steer Loaders, Front End Loaders and Telehandlers.



## FEATURES

- 1800mm sweep width
- Forward and reverse motion
- Fit motor to left or right side of sweeper to suit hydraulic connections
- Lockable bucket cover for convenient brush access
- Lightweight aluminium brush assembly - Easy brush replacement
- Simple brush depth adjustment
- Reversible bolt on cutting edge
- Easy-change rubber dust suppression skirts
- Water spray system (optional)
- Rear guide wheels
- Low profile design for enhanced operator visibility
- Low maintenance

## **SWEEPER 1800**

Oil Pressure Range: 240 Bar max  
Oil Flow Range: 65-115 lpm  
Hose Ports: 1/2" BSP  
Sweep Width: 1800mm  
Brush Diameter: 600mm  
Unit Width: 2183mm  
Unit Height: 627mm  
Unit Depth: 1339mm  
Unit Weight: 470 kg

Optional Extras: Water Spray System

# Skid Steer Loader Pallet Forks

Ideal for site locations where pallet handling is needed but the site is unmade or too rough for a fork lift truck.

## FEATURES

- Large range of tine options available up to 2000 Kg's
- Fully adjustable tines with locking pins
- Tines are fixed at the top and heel preventing bouncing while carrying loads
- High visibility brick guard giving you good vision whilst loading and unloading - crucial in a safety conscious age
- Side step for easy entry and exit of the cab
- Can be disassembled and packed into a compact storage space when not in use



### **PALLET PF1500 FORKS**

Weight Capacity:	1500kg
Tine Height:	550mm
Tine Width:	80mm
Tine Length:	1070mm
Tine Thickness:	40mm

### **MEDIUM CAPACITY PALLET FORKS**

Assembled Height:	930mm
Assembled Width:	1185mm
Assembled Length:	1340mm
Kit Weight:	176kg

Technical data may be subject to change without notice.

### **PALLET PF1800 FORKS**

Weight Capacity:	1800kg
Tine Height:	550mm
Tine Width:	100mm
Tine Length:	1220mm
Tine Thickness:	40mm

### **HIGH CAPACITY PALLET FORKS**

Assembled Height:	930mm
Assembled Width:	1185mm
Assembled Length:	1490mm
Kit Weight:	196kg

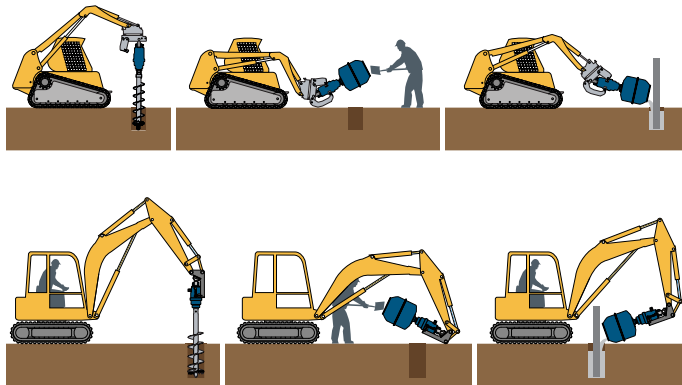
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# Mixer Bowls

**Available with a 180 Litre capacity, the Auger Torque Mixer Bowl attaches quickly and easily to our Earth Drills.**

Mixing in inaccessible areas where stand alone machines are not practical has never been easier. Skidsteer and Excavator mount brackets are available. A Mixer Bowl is the perfect addition to our Mini Loader Earth Drill range.



Ideal for fencing contractors, with the aid of the Mixer Cradle Hitch the 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 Skidsteer loader frames.



**MIXER CM 180 BOWL**

**EXCAVATORS 1 - 8 TONNES,  
MINI LOADERS &  
SKID STEERS**

Machine Compatibility:	X1500 - 7000MAX
Bowl Capacity:	180 Litres
Unit Depth:	690mm
Unit Diameter:	724mm
Unit Weight:	33kg

Technical data may be subject  
to change without notice.





# Hedge Trimmer

We are pleased to announce a new addition to our ever increasing line of high quality attachments. The Auger Torque T150 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.

## 1m Extension

Extends cutting length to 2.5m



## T150

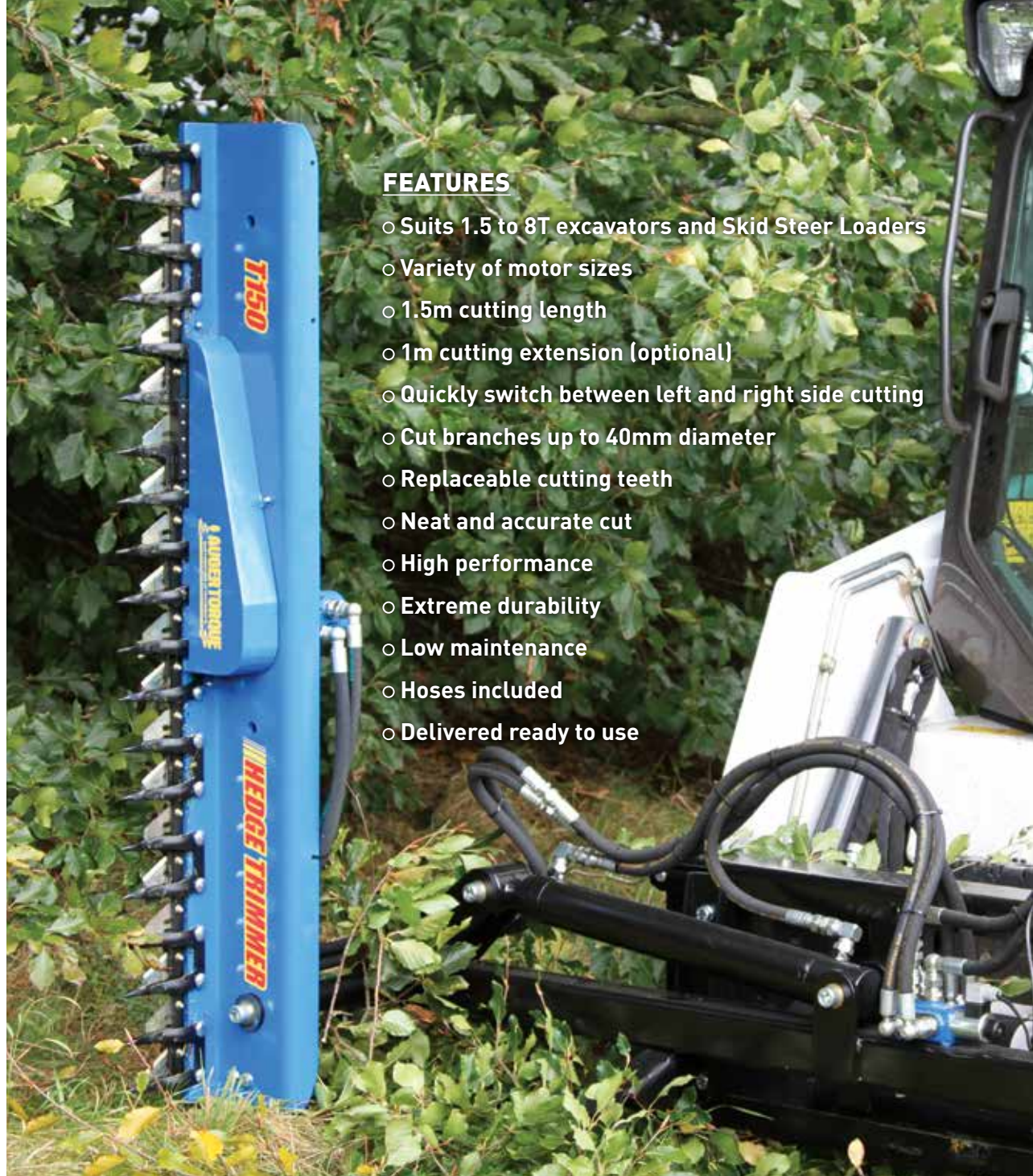
Oil Pressure Range: 28-220 Bar  
Oil Flow Range: 25-75 lpm  
Suitable For: 1.5T - 8T Excavators  
Skid Steer Loaders  
Cutting Length: 1500mm  
Max. Cutting Dia: 40mm  
Unit Width: 1537mm  
Unit Height: 292mm  
Unit Depth: 357mm  
Unit Weight: 69 kg  
Hitch Options: Double Pin Hitch  
Skid Steer Frame  
Hoses Included: Yes

## EXTENSION

Cutting Length: 1000mm  
Unit Width: 1058mm  
Unit Height: 120mm  
Unit Depth: 217mm  
Unit Weight: 26 kg

## FEATURES

- Suits 1.5 to 8T excavators and Skid Steer Loaders
- Variety of motor sizes
- 1.5m cutting length
- 1m cutting extension (optional)
- Quickly switch between left and right side cutting
- Cut branches up to 40mm diameter
- Replaceable cutting teeth
- Neat and accurate cut
- High performance
- Extreme durability
- Low maintenance
- Hoses included
- Delivered ready to use





# Variable Mulcher

Whether you are tackling overgrown ditches, low level vegetation or whole tree removal, the Auger Torque Variable Mulcher attachments offer the ideal solution with perfect results.

Suitable for Excavators and Skidsteer Loaders, the Variable Mulcher provides a working width up to 1.5m, and has the unique feature of being able to change the whole tooth drum instead of individual teeth, saving a LOT of time in the process.

## VM1000

Standard Gear Motor  
Oil Pressure Range: 160-180 Bar  
Oil Flow Range: 60-70 lpm  
Suitable For: 5T - 10T Excavators  
Skidsteer Loaders  
Drum Cutting Width: 1000mm  
Drum Speed: 2400rpm (machine dependant)  
Max. Log Dia: 120mm  
Unit Width: 1229mm  
Unit Height: 529mm  
Unit Depth: 794mm  
Unit Weight: 400 kg

## VM1500

Standard Piston Motor  
Oil Pressure Range: 220-240 Bar  
Oil Flow Range: 85-95 lpm  
Suitable For: 10T - 15T Excavators  
Skidsteer Loaders  
Drum Cutting Width: 1500mm  
Drum Speed: 2400rpm (machine dependant)  
Max. Log Dia: 250mm  
Unit Width: 1820mm  
Unit Height: 953mm  
Unit Depth: 994mm  
Unit Weight: 800 kg



## FEATURES

- Replaceable toothed cutting drum
- Working width options of 1m and 1.5m
- Heavy duty steel construction
- Hinged door for easy drum access
- High quality motor and hoses
- Easy access maintenance panels

## APPLICATIONS

- Ground clearance
- Woodland pathway creation and maintenance
- Clear and maintain vegetation
- Tree and hedge trimming
- Mulch trees and hedges down to ground level
- Fire break creation



# 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**

**EXCAVATORS 1 - 5 TONNES  
& SKIDSTEERS**

Earth Drill Compatibility:	X2000 - 4500MAX
Diameter:	180mm
Length:	300mm
Hub Options:	65 Round
Unit Weight:	14.6 kg

Technical data may be subject  
to change without notice.





# Stump Planers

Removal of tree stumps is a job which, at best, is noisy, messy and time consuming. Traditional methods of removal shower chippings over a wide area making clean up a time-consuming exercise.

With the Auger Torque Stump Planer, tree stumps are removed effortlessly and quietly and clean up time is reduced significantly.

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. Stump Planers are available in numerous sizes with a range of different hub options for different demands.

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.



Hardened Steel blades



Hardened Steel pilot



Stability bars



## STUMP SP250 PLANER

### EXCAVATORS 1 - 5 TONNES & SKIDSTEERS

Earth Drill Compatibility: X2500 - 4500MAX  
Diameter: 250mm  
Length: 635mm  
Hub Options: 65 Round  
Unit Weight: 25 kg

Technical data may be subject  
to change without notice.



The unique pilot engages with the top surface of the tree stump drawing the tool down allowing the blades to engage with a clean horizontal cut.

## STUMP SP350 PLANER

### EXCAVATORS 4.5 - 8 TONNES & HIGH FLOW SKIDSTEERS

Earth Drill Compatibility: 5500MAX - 8000MAX  
Diameter: 350mm  
Length: 675mm  
Hub Options: 75 Square  
Unit Weight: 33 kg

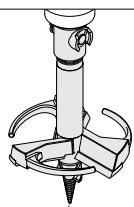
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As the blades rotate they shave the wood into a tidy pile and pull the planer down further.

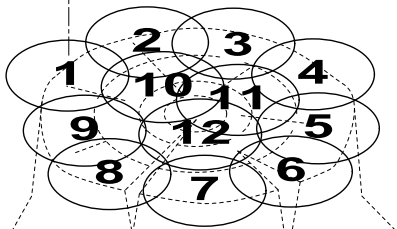


Stump removal is now a clean and quiet operation which can be performed quickly and efficiently by a single operator.



### MULTI-PASS CUTTING PATTERN

Tackle very large tree stumps with ease by making multiple cuts in a spiral pattern, starting from the outside and working towards the centre.



When the planer has achieved a deep cut, reposition to overlap the first hole and repeat the process until all of the stump is removed.



# Notes

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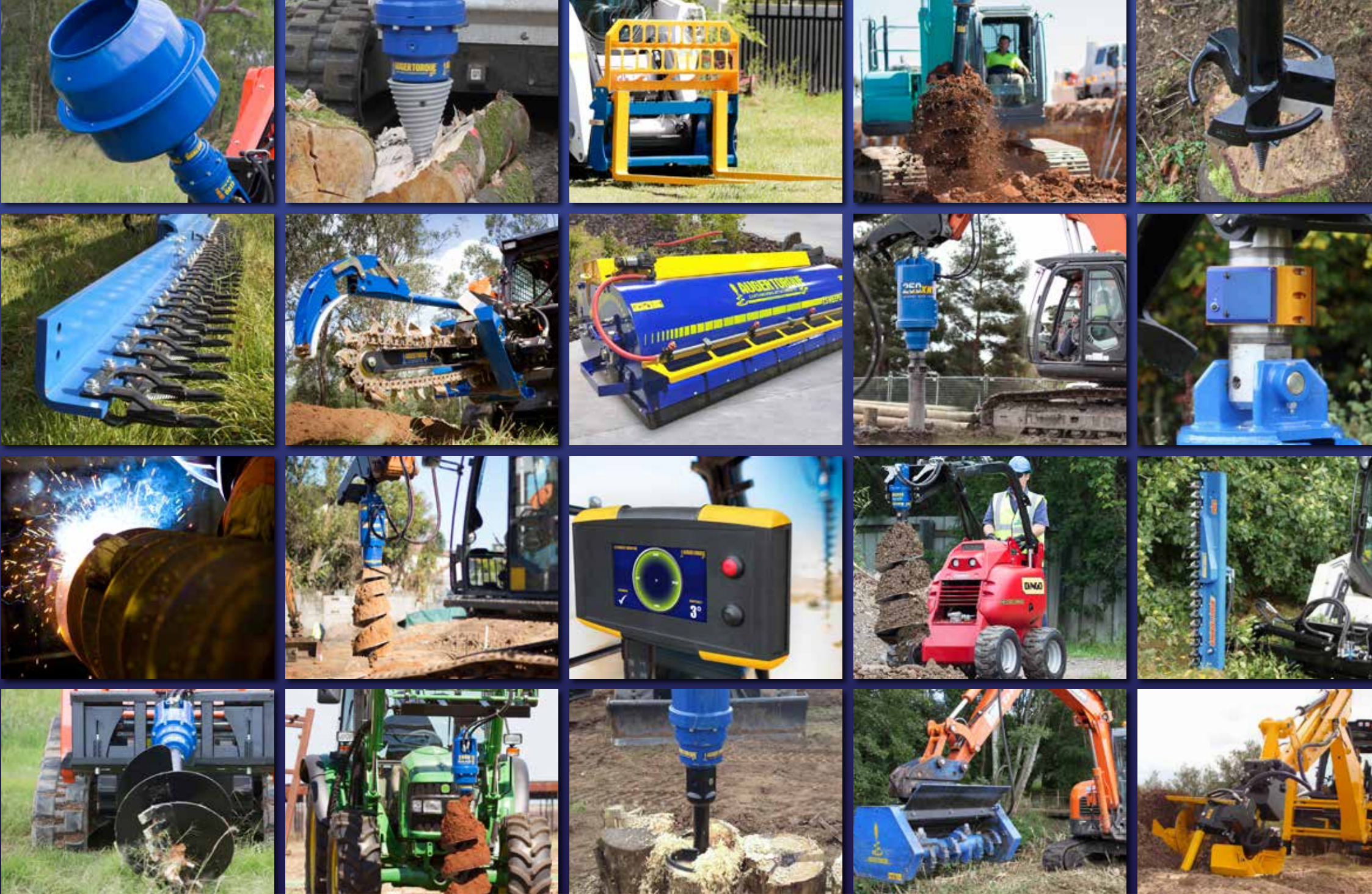
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**Auger Torque Europe Ltd**

Hazleton, Cheltenham, GL54 4DX, England

Phone: +44 (0) 1451 861 652 Fax: +44 (0) 1451 861 660

Email: [sales@augertorque.com](mailto:sales@augertorque.com)

Connect with us via



**[augertorque.com](http://augertorque.com)**

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