



ECHIDNA

Diamond & tungsten-carbide tipped rocksaws



Saws for construction, stone cutting, demolition and forestry.

ECHIDNA



Echidna leads the way with hydraulic excavator mounted rocksaws.

Safety, reliability and economy are our highest priority, which is why we developed:

- fast acting automatic brake
- reversible blade rotation
- double swiveling shield
- a wide range of models to match your excavator from 1 to 70 tonnes.
- a range of accessories to improve productivity

We can also provide custom accessories and modifications to fine tune your rock cutting system to your specific needs.



ECHIDNA

Contents

Applications **1**

Construction
Quarrying
Demolition
Forestry
Other

Diamond Rocksaws **5**

Standard Rockcutting Models
Rock, Bitumen and Concrete Cutting

Tungsten-Carbide Rocksaws **6**

Features **7**

Fast Acting Automatic Brake
Rock, Bitumen and Concrete Cutting
Double Swiveling Shield
Reversible Blade Rotation
Bearing Hub Construction
Wood Cutting & Stump Grinding Attachment
Rotating Head Bracket
High Speed Cutting
Cooling System for High Speed Cutting
Other Features

Accessories **11**

Multidirectional Cutting Heads
Automatic Cutting Optimiser
Adjustable Offset Extension
Other Accessories

Selection guide **13**

Do you need a Diamond or Tungsten-Carbide Rocksaw?
Choose a model suitable for using with your excavator.

Specifications **15**

Applications - Construction

In the construction industry, Echidna diamond rocksaws are suited to a wide range of applications. For example:

- excavations for footings, basements, lift shafts
- tunneling
- construction and maintenance of roads
- use in hard to reach places and populated areas
- trenches for underground piping and cables



📍 Echidna D6 diamond rocksaw with 2500mm blade cutting hard sandstone for a shopping centre carpark. (Wollongong, Australia)



📍 Echidna D4HS high speed rock saw with multiaxial cutting head. (Prague, Czech Republic)

📍 Echidna D1 diamond rocksaw cutting expansion slot in reinforced concrete water channel. (Stachy, Czech Republic)



📍 Cutting sandstone horizontally with Echidna D3 diamond rocksaw. (Sydney, Australia)

Applications - Quarrying

Cutting with diamond rocksaws produces a good surface finish, wastes very little material and can be done with high precision. This makes excavator diamond saws highly suitable for mining and quarrying stone, including stone of high hardness (eg. basalt, granite). With dual blade saws, or single blade saws with adjustable offset extension, parallel cuts of high precision can be achieved. Where there is no cooling water available and/or the material is not too hard, carbide tipped saws can be used. For compressive strength below 40 MPa these are just as fast as diamond and require much less operator skill than diamond.

🕒 *Echidna HS family of saws can achieve unprecedented precision, the slices here are down to 2mm thin.*



🕒 *Echidna C5 tungsten carbide with 2600 mm diameter blade in a hard sandstone quarry. (Queensland, Australia)*

🕒 *In places with high quality stone, each construction site can be turned into a small production quarry. (Sydney, Australia)*

Applications - Demolition

Echidna diamond rocksaws can be used in demolition as an alternative or addition to hammers and shears.

Both our standard (large blade) and high-speed (small blade) models will cut through a range of materials including steel reinforced concrete.

Materials can be cut into manageable sized pieces to be taken away for processing and recycling.



📍 Echidna D3 diamond rocksaw.
(Newcastle, Australia)



📍 High speed D4HS diamond rocksaw used for demolition of hard, reinforced concrete.
(Czech Republic)

Applications - Forestry

Echidna excavator stump grinders are a powerful alternative to stand-alone units. They use the power and reach of an excavator to remove stumps quickly and efficiently even in difficult to access locations. The organic material from the stump is left in place to decompose and enrich the soil, as compared with the alternative of ripping the stumps out of the ground with the excavator, and then burning or otherwise disposing of the stump.



☛ Echidna Sg4 stump grinder demonstration. (Beluno, Italy)

Applications - Other

The applications of the technology developed by Echidna is not limited to the construction, demolition and forestry industries. With our knowledge of materials and machinery, Echidna machinery can be adapted to a wide range of applications with standard and custom designed accessories and systems.

☛ Echidna rocksaw used for cutting paper rolls at a paper mill. (Visy, Australia)

Specially designated gantry system for cutting iron slab. (Wollongong, Australia)



Diamond Rocksaws

Standard Rockcutting Models

Echidna has developed 2 distinct kinds of diamond blade rocksaws. For general excavation works such as bulk excavations and trenching, we recommend the standard range of Echidna diamond rocksaws.

These rocksaws can also be used for cutting other materials such as bitumen, concrete or wood.



Rock, Bitumen and Concrete Cutting

Echidna developed its range of high-speed diamond rocksaws for demolitions, road cutting and other applications that do not require great depth of cut and where economical small blades are the best option.

The blades of the high-speed machines spin faster than the standard rocksaws making them a powerful and economical choice for cutting concrete, rock, bitumen and asphalt.

With their high rotation speed, these rocksaws use much smaller blades than the standard diamond blade rocksaws. This makes them less cumbersome to handle, less likely to be damaged and more economical, as the cost of the diamond blades decreases rapidly with decreasing diameter.

Tungsten - carbide Rocksaws

Tungsten-carbide rocksaws are suitable for earthmoving, excavation, quarrying and mining. They can cut medium-hard, soft and clay rich materials.

Although slower and less efficient than diamond tipped saws for hard materials, the tungsten-carbide tipped rocksaws have some advantages:

- Damaged or worn picks can be easily replaced.
- No need for cooling water during cutting.
- Better suited for soft materials than diamond saws.
- Lower requirement on operator's skill.



Echidna has tungsten-carbide rocksaw models available for excavators from 8 - 80 tonnes. They are designed to minimise weight and be compact in size, while having a robust construction.

We have many options available to tailor them to your application such as extensions for cutting outside of tracks and the cutting optimiser.

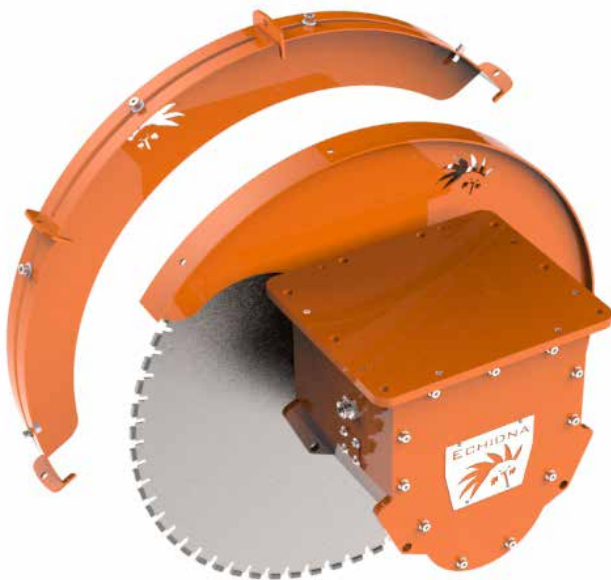
Features

Fast acting automatic brake

Echidna rocksaws have an inbuilt hydraulic braking system. It engages automatically when hydraulic pressure drops below a certain pre-set level. This means it operates even in emergency situations such as loss of oil from a broken hose.

The brake system has no mechanical parts. This means no wear, no abrasive dust and no maintenance.

It also locks the blade during transport.



Double Swiveling Shield

The protective shield on Echidna Diamond Saws is made up of two independent assemblies.

The inner shield rotates by 360 ° (full circle) around the blade. It is constructed so that its outer rim sits flush with the outer face of the cutting blade. The outer guard swivels around the inner shield independently by approx. +/- 45 °.

With this arrangement it is possible to open the shield angle to cover most of the blade in situations where surrounding property must be well guarded from the cut debris.

The outer guard provides full protection from both sides of the cutting blade. The outer guard can be removed when cutting along a boundary wall is required.

Reversible blade rotation

All Echidna diamond saws except of D1J come with reversible blade rotation. When connected to an auger another two directional circuit, the direction of blade rotation can be changed at any time.

This allows control of the direction in which cut debris is thrown.

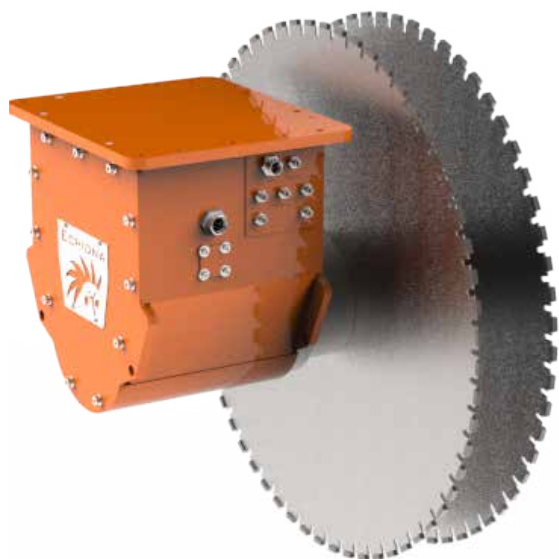
The choice of rotation direction is absolutely essential for horizontal cutting, as one must cut against the direction of blade spin.



Bearing Hub Construction

The construction of the front bearing hub and the sealing arrangement of all Echidna diamond saws provides protection against any dirt entering the bearing space, and even allows the saw to be used fully submerged in water.

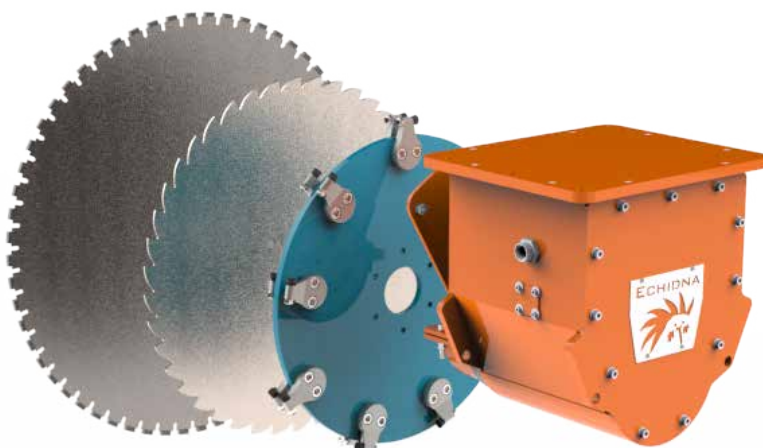
The bearing hub is robust enough to support multiple blades, with spacers, for slab and trench cutting.



Wood Cutting & Stump Grinding Attachment

The high speed and the robust bearing assemblies of all Echidna saws from sizes D1 to D6 are constructed to withstand large axial and radial loads which are needed for stump grinding and wood cutting.

Echidna offers stump grinding attachments that can be mounted on a saw instead of the diamond blade. The diamond saw can thus be converted in minutes to an efficient stump grinder with all the advantages of an excavator mounted tool, ie reach, flexibility, power etc.



Rotating Head Bracket

A swiveling head bracket that allows the saw to be repositioned from left to right cut and vice versa, without the need to disconnect it from the excavator.

A manual version is an optional extra for Echidna Diamond Rocksaws in the D1, D2 and D3 series that is particularly useful in excavations where access is tight. For machine sizes D4 and higher this function is motorised for safety reasons.



High Speed Cutting

The high-speed (HS) series diamond saws are capable of spinning the blade at up to an incredible 4800 rpm.

This allows them to drive very small diameter blades for powerful and economical cutting of steel reinforced concrete and asphalt, which often do not require great cutting depth, but where tip speed is of paramount importance. The high-speed Echidna rocksaws will easily outperform a diamond road saw.

Blades as small as 400mm diameter can be used and yet the high pressure capability of these saws gives them enough torque to drive a 1200mm cutting blade.



Cooling System for High Speed Cutting

High speed cutting, such as is required for cutting of steel-reinforced concrete or asphalt, generates heat. This substantially shortens the life of the blade.

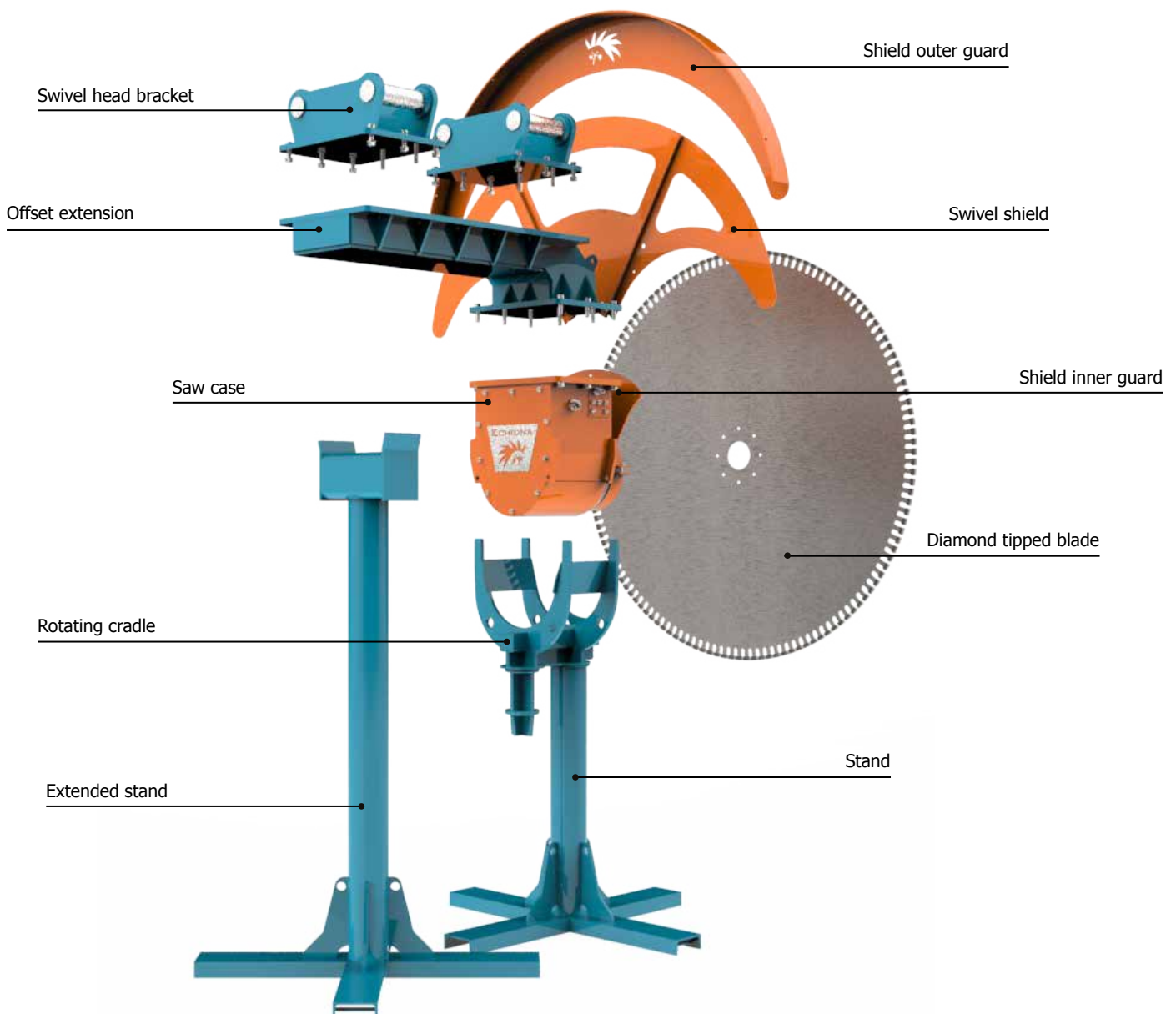
Echidna has developed a water jet system incorporated into the safety shield, that allows for large flows of water when needed and provides or adjustment of the water jet direction to send the water to exactly where it is needed.



Other Features

- rotating stand
- compact size
- fast blade rotation
- short body length for cutting deep trenches
- no need for case drain for some models
- strong and light construction
- single- and multi-blade configurations
- high quality blades and cutting stones
- built-in water nozzle
- optional motor speed sensor
- hydraulic test points

The make up of an Echidna diamond cutting system



Accessories

Multidirectional Cutting Heads

The Echidna multidirectional cutting heads are for situations when cutting is needed at an angle other than vertical, i.e. perpendicular to the excavator linkage pins. Echidna has developed a range of cutting heads that rotate and slide about and along one or more axes.

This is particularly needed in tunnelling, demolition and quarrying works.



Automatic Cutting Optimiser

Echidna has released one of the most significant developments in the field of mobile rock cutting, concrete cutting and demolition works: a Cutting Optimiser for rock saws such as those used with excavator. It offers these advantages:

- reduces operator fatigue
- improves the daily productivity easily by a factor of 3 compared to even the best of human operators.
- increases rocksaw blade life by applying optimum pressure for cutting

This hydraulic servo control system takes over from the operator in controlling the feed rate of the rocksaw, be it a diamond or carbide saw. The device automatically detects the presence of

an active tool (eg a rock saw) on the excavator. When there is no rocksaw present, the excavator functions like without the rocksaw.

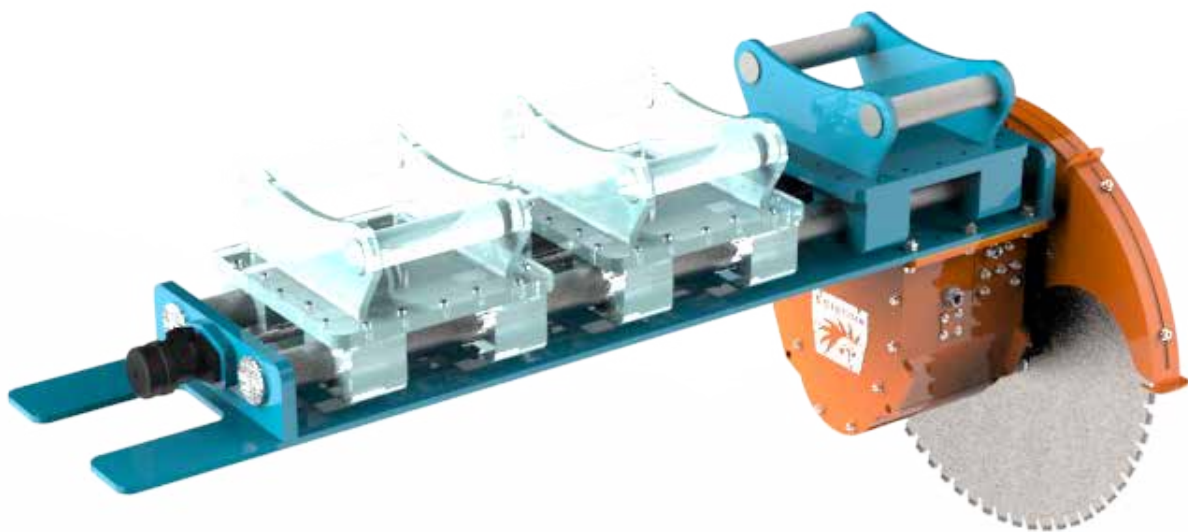
When a rocksaw is activated, i.e. cutting blade is made to spin, the operator brings the blade slowly into contact with the rock, concrete or other material to be cut and the servo unit automatically detects the rock and takes over the control of the rocksaw movement.

No more exhausting operator hours concentrating on fine control of the joy stick. The operator simply engages the appropriate joy stick into "full throttle" position and the Optimiser does his work. When the joy stick is released the Optimiser automatically and instantly disengages.

Adjustable offset extension

Twin blade saws are often used as a solution when two parallel cuts are needed. The disadvantage of a twin blade saw is in the impossibility to easily adjust the width between the two blades.

Echidna has developed an adjustable offset extension whereby only a single blade is used and the saw is hydraulically offset to any position to make the second cut.



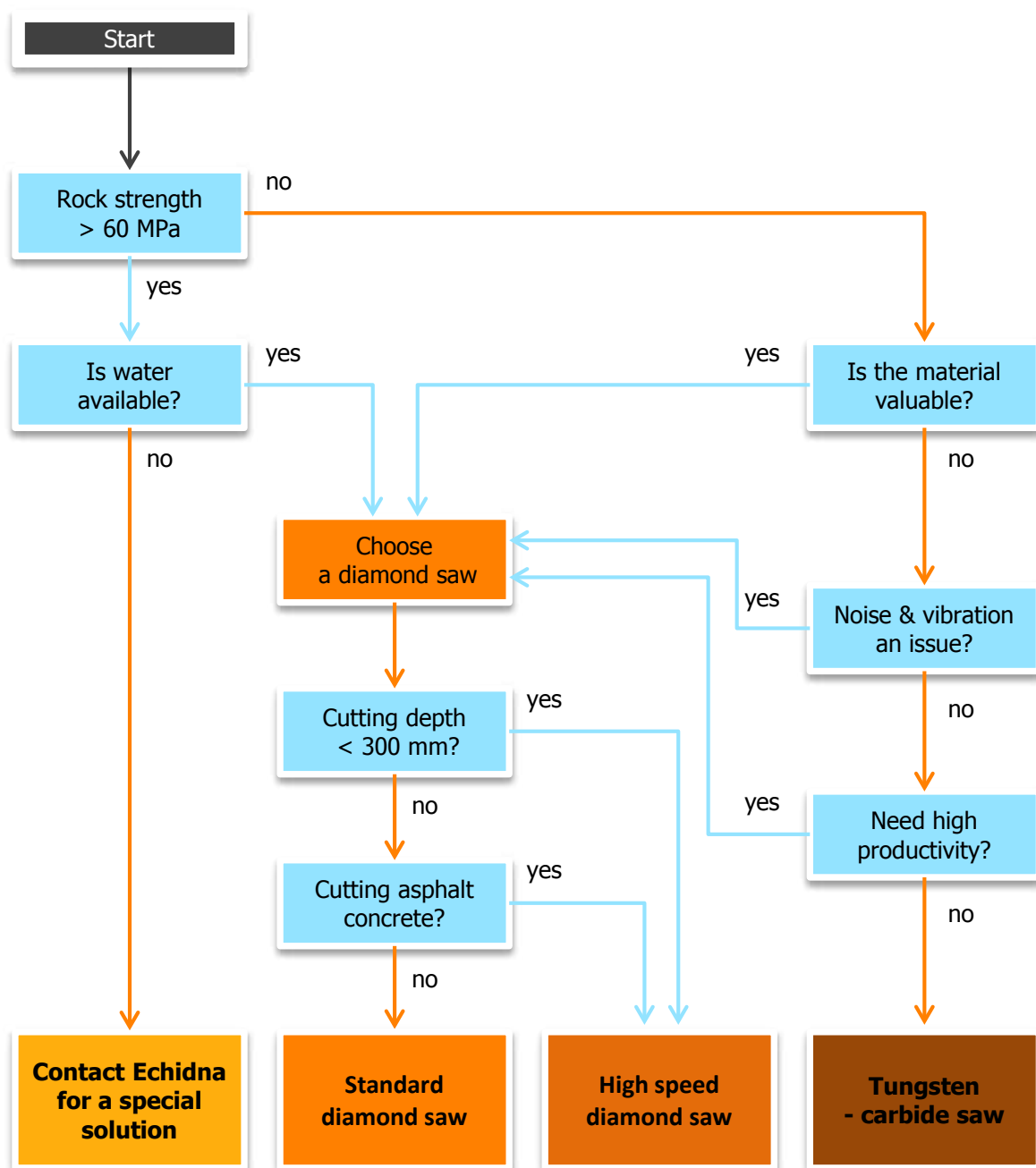
Other Accessories

- Fixed and adjustable head brackets to suit all excavator sizes.
- Extension for offset cutting.
- Diamond blades to suit material to be cut.
- Single or reversible rotation valve block with dynamic brake and anti-cavitation circuit.
- Integral motor and valve block cooling system for extreme work duty and/or work in hot climatic conditions.
- Motor speed/pressure sensor for manual cut-speed optimisation.
- Automatic host machine leveler for speedy machine positioning.

Selection guide

Do you need a Diamond or Tungsten-Carbide Rocksaw?

Use this chart to choose the type of rocksaw that you need. The chart is intended as a guide only.



Choose a model suitable for using with your excavator.

The table below lists saw types for optimum performance, however, it is also possible to use sizes outside of this range.

The range of carrier sizes is also only indicative of optimum size-to-performance match; as a rule, it is safe to attach a large saw to a small excavator, but when a small saw is mounted on a large excavator caution must be exercised in adjusting the correct flow and pressure as to prevent damage to the attachment.

It is necessary to study the respective specifications carefully and consult your supplier.

Diamond Rocksaws

Excavator range (t)	Cutting depth (mm)	Blade diameter (mm)	Continuous power (kW)	Model	Comments
0,7 – 1.5	125 – 425	400 – 800	8	D1J, D1S	A tiny saw, easy to handle, great for tight access situation.
1,2 – 4	225 – 525	600 – 1200	13	D2S	A bit more power - good for tight access and general excavation.
1,2 – 4	75 – 225	300 – 800	24	D2HS	Concrete and asphalt cutting.
4 – 12	435 – 775	1000 – 1800	47	D3S	Our most popular model, for mid range excavators.
4 – 12	190 – 390	400 – 1000	39	D3HS	Concrete and asphalt cutting.
10 – 20	675 – 775	1000 – 2200	75	D4HP	Very powerful all-rounder for vast range of uses.
8 – 20	75 – 475	400 – 1400	140	D4HS	Concrete and asphalt cutting.
10 – 24	350 – 1250	1000 – 2500	370	D5HP	A powerful saw suitable for a wide range of excavators.
20 – 45	850 – 1600	2000 – 3500	470	D6HP	Powerful saw with big blades.
20 – 45	350 - 1250	1000 – 2800	630	D62S	Dual blade for trenching and quarrying.

Tungsten Carbide Rocksaws

Excavator range (t)	Cutting depth (mm)	Blade diameter (mm)	Continuous power (kW)	Model	Comments
12 – 15	up to 750	up to 2000	75	C4x	
20 – 30	800 – 1300	2000 – 3000	135	C5x	
30 - 60	1050 - 1550	2500 - 3500	260	C6x	

Specifications



Echidna leads the way with hydraulic excavator mounted diamond blade rocksaws.

Our standard range contains diamond blade rocksaws for excavators in the range of 1 to 60 tonnes.

Echidna uses a range of quality motors to provide a wide selection of rocksaws to best suit your host machine.

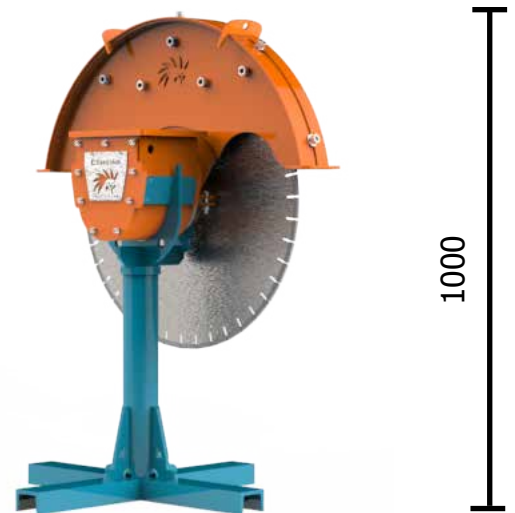
Echidna Rocksaws D1J

for 0,7-1.5 tonne excavators

The Echidna D1J diamond rocksaw has been specially designed for micro and mini excavators and demolition robots. These tiny saws are perfect for landscaping, small excavations, internal excavations and trenching. They can also be fitted with a wood saw blade for tree trimming. With its aluminium case weighing less than 12 kg, they are easy to transport, and with their small blades, are very economical to run.

The D1J has up to 12 kW and maximum 1000 mm blade, giving a 440 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 240 mm.

- Mass (machine only) 12 kg
- Cutting depth loss 75 mm
- Minimum trench width 240 mm
- Case drain not necessary



Parameters	Units		D1J/25	D1J/32	D1J/40	D1J/50
Excavator range	t	-	0,7-12	0,7-12	0,9-1.5	0,9-1,5
Blade diameter range	mm	-	400-600	400-700	500-800	500-800
Output power	kW	cont.	4,5	5,8	8,4	10,1
		peak	6,1	7,8	11,6	12,2
Spindle torque	Nm	cont.	34	43	65	95
		peak	76	97	122	152
Spindle speed	rpm	cont.	1600	1560	1500	1200
		peak	1800	1720	1750	1500
Pressure	MPa	cont.	10	10	12	14
		peak	22,5	22,5	22,5	22,5
Flow	l/min	cont.	40	50	60	60
		peak	45	55	70	75

Echidna Rocksaws D1S

for 0,7-1.5 tonne excavators

The Echidna D1S diamond rocksaw has been specially designed for micro and mini excavators and demolition robots. These tiny saws are perfect for landscaping, small excavations, internal excavations and trenching. They can also be fitted with a wood saw blade for tree trimming. With its aluminium case weighing less than 45 kg, they are easy to transport, and with their small blades, are very economical to run.

The D1S has power up to 12 kW and maximum 1000 mm blade, giving a 440 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 300 mm.

- Mass (machine only) 45 kg
- Cutting depth loss 75 mm
- Minimum trench width 300 mm
- Rapid automatic brake
- Reversible blade rotation
- Case drain not necessary
- Low vibration levels to avoid damage to existing structures
- Tight-access and under-house excavations
- Use with Echidna cutting optimiser for improved cutting efficiency



Parameters	Units		D1S/25	D1S/32	D1S/40	D1S/50
Excavator range	t	-	0,7-1,2	0,7-1,2	0,9-1,5	0,9-1,5
Blade diameter range	mm	-	400-600	400-700	500-800	500-800
Output power	kW	cont.	1,5	5,8	8,4	10,1
		peak	6,1	7,8	11,6	12,2
Spindle torque	Nm	cont.	34	43	65	95
		peak	76	97	122	152
Spindle speed	rpm	cont.	1600	1560	1500	1200
		peak	1800	1720	1750	1500
Pressure	MPa	cont.	10	10	12	14
		peak	22,5	22,5	22,5	22,5
Flow	l/min	cont.	40	50	60	60
		peak	45	55	70	75

Echidna Rocksaws D2S

for 1,2-4 tonne excavators

The Echidna D2S diamond rocksaw for micro and mini excavators and demolition robots. These tiny saws are perfect for landscaping, small excavations, internal excavations and trenching. They can also be fitted with a wood saw blade for tree trimming. Weighing less than 50 kg, they are easy to transport, and with their small blades, are very economical to run.

The D2S has up to 15 kW of power and maximum 1200 mm blade, giving a 450 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 300 mm.

As with all Echidna diamond rocksaws, the D2S has automatic blade braking, reversible blade rotation and the dual swiveling shield to give safe and flexible operation.

Parameters	Units		D2S/80	D2S/100
Excavator range	t	-	1,2-4	1,2-4
Blade diameter range	mm	-	600-1200	800-1200
Output power	kW	cont.	12,5	13
		peak	15	15
Spindle torque	Nm	cont.	189	237
		peak	244	305
Spindle speed	rpm	cont.	750	600
		peak	940	750
Pressure	MPa	cont.	17,5	17,5
		peak	22,5	22,5
Flow	l/min	cont.	60	60
		peak	75	75



- Mass (machine only) 45 kg
- Cutting depth loss 75 mm
- Minimum trench width 300 mm
- Blade rotation reversible
- Case drain not necessary
- Rapid automatic brake
- Small blades for economical operation
- Tight-access and under-house excavations
- Low vibration levels to avoid damage to existing structures
- Use with Echidna cutting optimiser for improved cutting efficiency

Echidna Rocksaws D2HS

for 1,2-4 tonne excavators

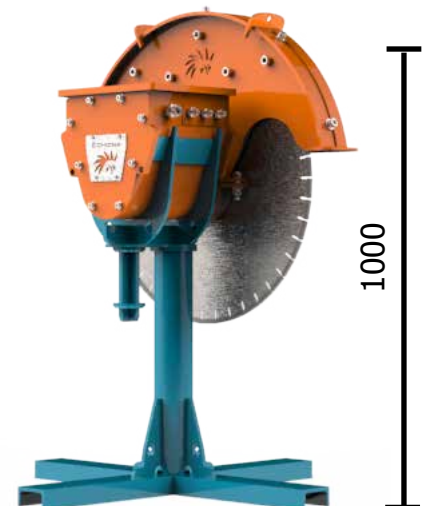
The high-speed models are the machine of choice for cutting in situations where the depth of the cut does not need to be large.

These diamond saws are capable of turning at up to 3000 rpm. This allows it to drive very small diameter blades for powerful and economical use in the cutting of steel reinforced concrete and asphalt which often do not require great cutting depth, but where tip speed is of paramount importance.

This saw will easily outperform a road cutter diamond saw.

Blades as small as 300 mm diameter can be used and yet the high pressure capability of this saw gives out enough torque to drive a 600 mm cutting blade (depending on the size of machine selected) when required.

Parameters	Units		D2HS/33	D2HS/40
Excavator range	t	-	1,2-3	2-4
Blade diameter range	mm	-	300-600	400-800
Output power	kW	cont.	30	30
		peak	60	60
Spindle torque	Nm	cont.	112	135
		peak	179	217
Spindle speed	rpm	cont.	2120	1750
		peak	2730	2250
Pressure	Mpa	cont.	25	25
		peak	40	40
Flow	l/min	cont.	70	70
		peak	90	90



- Mass (machine only) 56 kg
- Cutting depth loss 75 mm
- Minimum trench width 240 mm
- Blade rotation reversible
- Case drain necessary
- Rapid automatic brake
- Reduces running costs
- Multiple blades easily fitted and removed
- Improved cooling for high-speed operation

Echidna Rocksaws D3S

for 4-12 tonne excavators

The Echidna D3S diamond blade rocksaws are perfect for landscaping, excavations and trenching. They can be used for cutting internal excavations and can also be fitted with a wood saw blade for tree trimming and cutting firewood.

The D3S comes with up to 33 kW motor and maximum 2000 mm blade, giving a 900 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 400 mm.

As with all Echidna diamond rocksaws, the D3S has automatic blade braking, reversible blade rotation and the dual swiveling shield to give safe and flexible operation.

- Mass (machine only) 96 kg
- Cutting depth loss 120 mm
- Minimum trench width 400 mm
- Blade rotation reversible
- Case drain not necessary
- Rapid automatic brake
- Small blades for economical operation
- Tight-access and under-house excavations
- Cut deep trenches as narrow as 290 mm
- Low vibration levels to avoid damage to existing structures
- Use with Echidna cutting optimiser to improve cutting



Parameters	Units		D3S/160	D3S/200	D3S/250
Excavator range	t	-	4-12	6-10	8-12
Blade diameter range	mm	-	1000-1600	1000-1600	1200-1800
Output power	kW	cont.	26,5	33,5	33,5
		peak	32	40	40
Spindle torque	Nm	cont.	433	541	677
		peak	606	758	947
Spindle speed	rpm	cont.	630	630	500
		peak	780	750	600
Pressure	MPa	cont.	20	20	20
		peak	28	28	28
Flow	l/min	cont.	100	125	125
		peak	125	150	150

Echidna Rocksaws D3HS

for 4-12 tonne excavators

The high-speed models are the machine of choice for cutting in situations where the depth of the cut does not need to be large.

These diamond saws are capable of turning at up to 2000 rpm. This allows it to drive very small diameter blades for powerful and economical use in the cutting of steel reinforced concrete and asphalt which often do not require great cutting depth, but where tip speed is of paramount importance.

This saw will easily outperform a road cutter diamond saw.

Blades as small as 400 mm diameter can be used and yet the high pressure capability of this saw gives out enough torque to drive a 1000 mm cutting blade (depending on the size of machine selected) when required.

Parameters	Units		D3HS/50	D3HS/80
Excavator range	t	-	4-6	5-12
Blade diameter range	mm	-	400-1000	600-1000
Output power	kW	cont.	40	40
		peak	60	60
Spindle torque	Nm	cont.	169	271
		peak	189	303
Spindle speed	rpm	cont.	1800	1130
		peak	2400	1500
Pressure	MPa	cont.	25	25
		peak	28	28
Flow	l/min	cont.	90	90
		peak	120	120

- Mass (machine only) 97 kg
- Cutting depth loss 120 mm
- Minimum trench width 300 mm
- Blade rotation reversible
- Case drain necessary
- Rapid automatic brake
- Cuts reinforced concrete and asphalt 3 times as fast as roadcutter
- Reduces running costs
- Multiple blades easily fitted and removed
- Improved cooling for high-speed operation



Echidna Rocksaws D4HP

for 10-20 tonne excavators

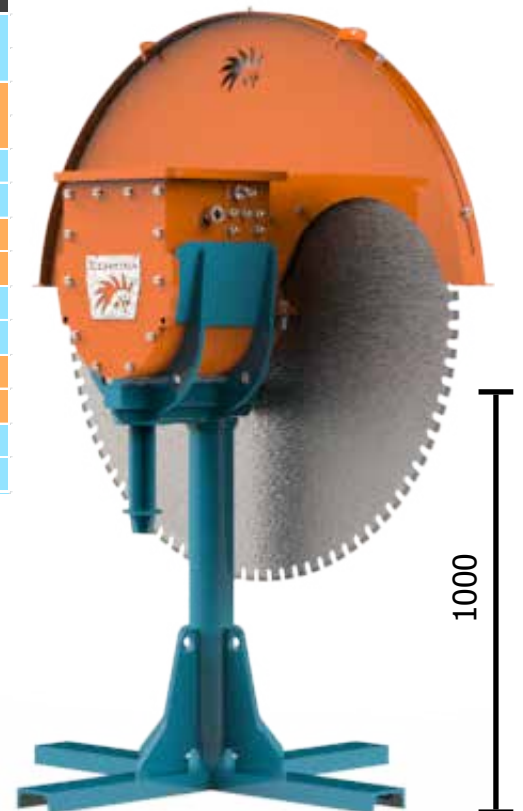
Echidna D4HP diamond rocksaws are perfect for excavations and trenching. They can also be fitted with a wood saw blade for tree trimming and cutting firewood.

The D4HP comes with up to 300 kW motor and maximum 2200 mm blade, giving a 1075 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 450 mm.

As with all Echidna diamond rocksaws, the D4HP has automatic blade braking, reversible blade rotation and the dual swiveling shield to give safe and flexible operation.

Parameters	Units		D4HP/280
Excavator range	t	-	10-16
Blade diameter range	mm	-	1000-2200
Output power	kW	cont.	240
		peak	300
Spindle torque	Nm	cont.	1114
		peak	1300
Spindle speed	rpm	cont.	1710
		peak	1860
Pressure	MPa	cont.	29,4
		peak	34,3
Flow	l/min	cont.	480
		peak	520

- Mass (machine only) 180 kg
- Cutting depth loss 145 mm
- Minimum trench width 500 mm
- Blade rotation reversible
- Case drain necessary
- Rapid automatic brake
- Use Echidna cutting optimiser for improved cutting efficiency
- Multiple blades for parallel cuts easily fitted and removed



Echidna Rocksaws D4HS

for 8-20 tonne excavators

The high-speed models are the machine of choice for cutting in situations where the depth of the cut does not need to be large.

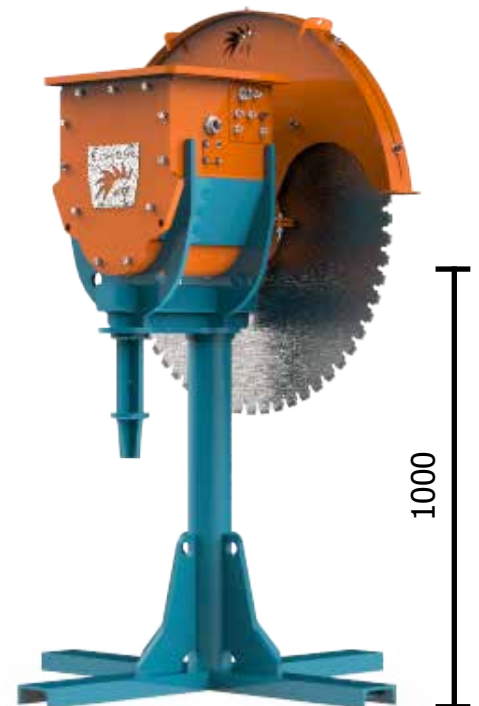
These diamond saws are capable of turning at up to an incredible 5000 rpm. This allows it to drive very small diameter blades for powerful and economical use in the cutting of steel reinforced concrete and asphalt which often do not require great cutting depth, but where tip speed is of paramount importance.

This saw will easily outperform a road cutter diamond saw.

Blades as small as 400 mm diameter can be used and yet the high pressure capability of this saw gives out enough torque to drive a 1200 mm cutting blade (depending on the size of machine selected) when required.

Parameters	Units		D4HS/90	D4HS/135
Excavator range	t	-	8-14	12-20
Blade diameter range	mm	-	400-1400	600-1400
Mass (machine only)	kg	-	140	170
Cutting depth loss	mm	-	120	150
Minimum trench width	mm	-	420	520
Output power	kW	cont.	230	280
		peak	380	350
Spindle torque	Nm	cont.	463	767
		peak	585	877
Spindle speed	rpm	cont.	4000	2990
		peak	5220	3270
Pressure	MPa	cont.	38	42
		peak	48	48
Flow	l/min	cont.	360	403
		peak	470	442

- Blade rotation reversible
- Case drain necessary
- Rapid automatic brake
- Reduces running costs
- Multiple blades easily fitted and removed
- Improved cooling for high-speed operation



Echidna Rocksaws D5HP

for 10-24 tonne excavators

The Echidna D5HP diamond rocksaws for 10-24 tonne excavators are perfect for quarrying, excavations and trenching. They can also be fitted with a wood saw blade for tree trimming and cutting firewood.

The D5HP comes with up to 450 kW motor and maximum 3000 mm blade, giving a 1350 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 570 mm.

As with all Echidna diamond rocksaws, the D5HP has automatic blade braking, reversible blade rotation and the dual swiveling shield to give safe and flexible operation.

Parameters	Units		D5HP/530
Excavator range	t	-	10-24
Blade diameter range	mm	-	1000-2500
Output power	kW	cont.	370
		peak	450
Spindle torque	Nm	cont.	2109
		peak	2461
Spindle speed	rpm	cont.	1420
		peak	1490
Pressure	MPa	cont.	29,4
		peak	34,3
Flow	l/min	cont.	750
		peak	790

- Mass (machine only) 325 kg
- Cutting depth loss 160 mm
- Minimum trench width 640 mm
- Blade rotation reversible
- Case drain necessary
- Rapid automatic brake
- Can be used with Echidna cutting optimiser for improved cutting efficiency



Echidna Rocksaws D6HP

for 20-45 tonne excavators

The Echidna D6HP diamond rock saw for 20 - 45 tonne excavators. These diamond rocksaws are perfect for quarrying, excavations and trenching.

The D6HP comes with up to 470 kW motor and maximum 3500 mm blade, giving a 1550 mm deep cut. With its small body length, it is possible to cut trenches as narrow as 620 mm.

As with all Echidna diamond rocksaws, the D6HP has automatic blade braking, reversible blade rotation and the dual swiveling shield to give safe and flexible operation.

Parameters	Units		D6HP/800
Excavator range	t	-	20-45
Blade diameter range	mm	-	2000-3500
Output power	kW	cont.	470
		peak	570
Spindle torque	Nm	cont.	3183
		peak	3714
Spindle speed	rpm	cont.	1200
		peak	1240
Pressure	MPa	cont.	29,4
		peak	34,3
Flow	l/min	cont.	960
		peak	990

- mass (machine only) 385 kg
- cutting depth loss 200 mm
- minimum trench width 730 mm
- blade rotation reversible
- case drain necessary
- rapid automatic brake
- use Echidna cutting optimiser for improved cutting efficiency



Echidna Rocksaws C4x, C5x, C6x

for 12-60 tonne excavators

Echidna tungsten-carbide rocksaws are suitable for earthmoving, excavation, quarrying and mining applications. They can cut medium-hard, soft and clay rich materials.

They offer these advantages:

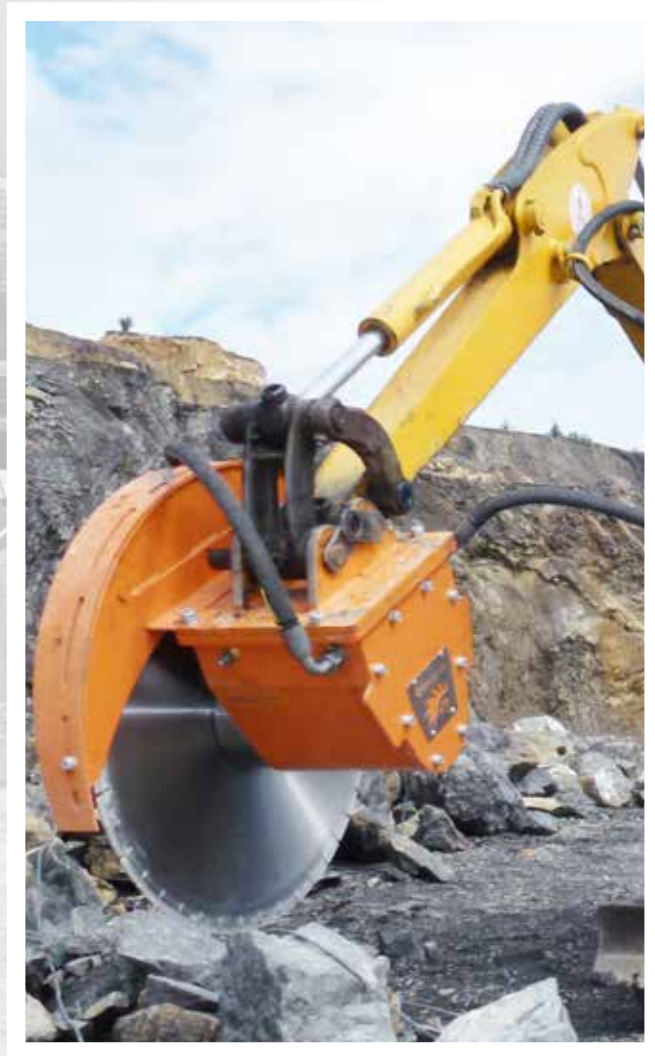
- Damaged or worn picks can be easily replaced without any special tools
- No need for water for cooling the blade during cutting
- Very high power-to-weight ratio, compact size and robust construction

Echidna carbide tipped rocksaws come standard with a designated blade, head bracket to suit your excavator and a stand. Additional accessories include:

- Extension for cutting outside the tracks of the excavator with provision for additional head brackets
- Additional head brackets to suit any excavator
- Safety shield
- Cutting Optimiser for dramatic improvement of productivity

These saws require a case drain line.

Parameters	Units		C4x/35	C5x/50	C6x/83
Excavator Range	t	-	12-15	20-30	30-60
Blade diameter range	mm	-	up to 2000	2000-3000	2500-3500
Cutting depth loss	mm	-	160	200	240
Output power	kW	cont.	140	180	240
		peak	110	140	200
Spindle torque	Nm	cont.	22,74	34,11	48,32
		peak	25,99	38,98	55,22
Spindle speed	rpm	cont.	70	60	50
		peak	90	80	60
Pressure	MPa	cont.	42	42	42
		peak	48	48	48
Flow	l/min	cont.	280	350	400
		peak	350	450	500





ECHIDNA

Echidna a.s.
Loretánské náměstí 3
118 00 Praha 1
Hradčany
Czech Republic

Tel: (+420) 220 560 979
Email: office-cr@echidna-rocksaws.com
Web: www.echidna-rocksaws.com

