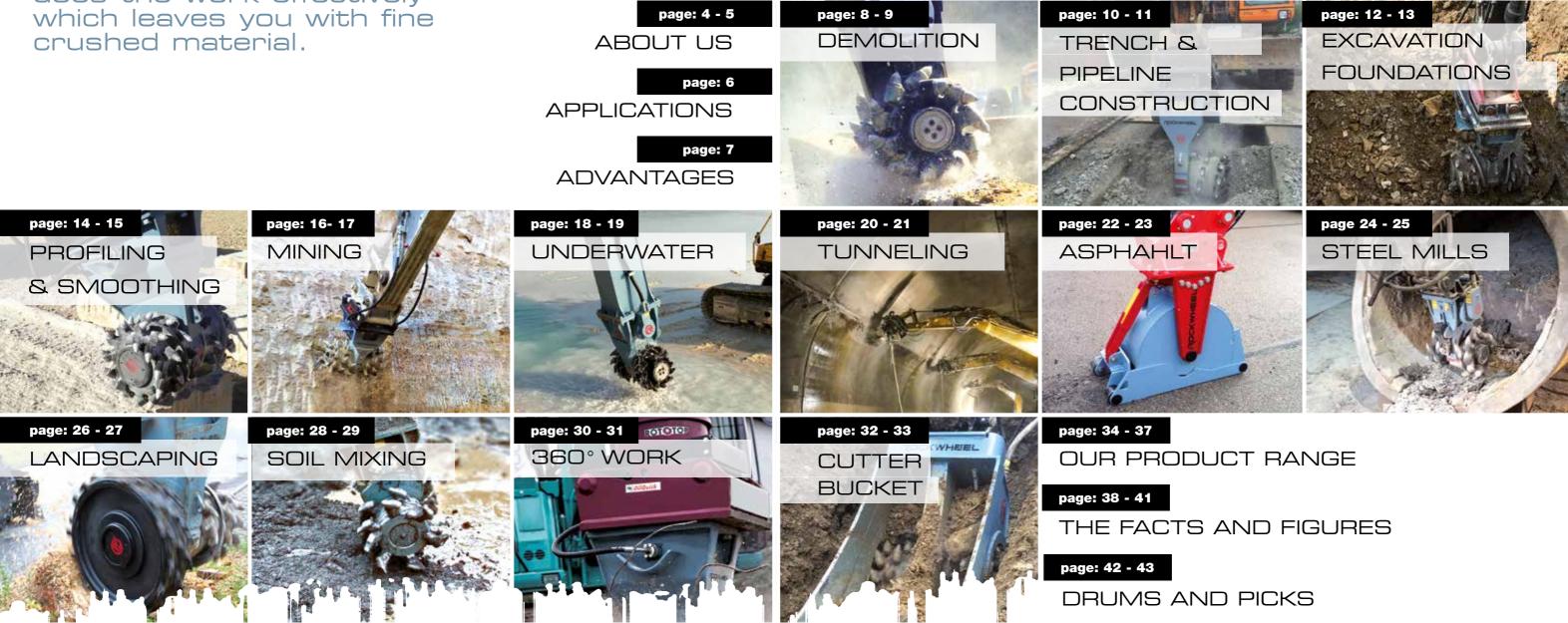




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BY ROCK.ZONE

Get unrivalled results with a Rockwheel drum cutter: does the work effectively which leaves you with fine





# READY TO ROCK

PROFESSIONAL ATTACHMENTS, THAT INSPIRE!

Crusher Bucket key benefit: Quattro Movement & Reverse Function

Drum Cutter key benefit: lower noise & vibrations & three to five times faster

Screening Bucket key benefit: XXL Volume & maintenance-free, extra large gearbox

### Efficient and innovative since 2013

Robert Piasecki and his team provide exactly what the customers want and when they want it!

The product line includes over 30 machines in the drum cutter, crushing and screening bucket segments.

Since the Hartl Crusher takeover we are living the ROCK.ZONE!



# ADVANTAGES

### Perfect.Everywhere.

### **GEAR RATIO**

Geared drum cutters with a gear ratio of up to 2:1 for maximum torque invented and unrivalled

### **MOTOR PROTECTION**

Valve technology protects the hydraulic motor

### **RUNS WITHIN HAMMER** CIRCUIT

Only two hydraulic connections no case drain line required

### SILENT OPERATION

Perfect for noise sensitive areas

### LONGEST EXPERIENCE **ON THE MARKET**

Developed by Webster Technologies

### **REUSABLE CRUSHED** MATERIAL

Crushed material with a diameter of 3 cm

### **OPTIMAL PICK**

LACING Maximum performance and smooth operations

### SHORT DESIGN

Optimized transmission of power from the excavator to the Rockwheel

### **OPTIMIZED POWER-TO-WEIGHT RATIO**

Enhanced performance achieved with less weight

### **EXTREMELY HEAVY-DUTY**

For the toughest jobs

### LOWER VIBRATIONS

For cutting in sensitive and urban locations without transmitting vibrations to the surroundings

### STRENGTH OF MATERIALS (MPA)



medium to hard material (10 to 100)



and the second second

# EXTENSIVE RANGE

# Extensive range of applications for Rockwheel drum cutter.



hard material (100 to 200) extremely hard material (over 200)

DEMOLITION

### Resistance is futile.

### DEMOLISH AND CUT -IN A SINGLE STEP

Unrivalled performance enables Rockwheel drum cutters to effortlessly crush concrete – including steel reinforcement.

No additional tools are required in order to cut rebar. Resulting crushed material is the same size as gravel, making its removal easier and efficient.

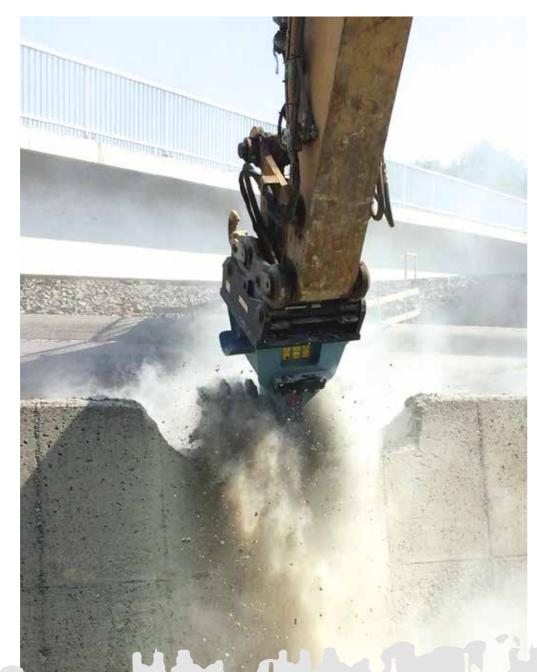
### LOWER NOISE LEVEL FOR USE IN SENSITIVE AREAS

Demolition with drum cutters is a lower noise activity! This is important when working in sensitive locations, such as urban and residential areas.

Moreover, the use of drum cutters results in lower vibration as it eliminates the typical impact energy of breakers.

### **BUILD TO DEMOLISH**

With their massive full-length Hardox<sup>R</sup> central protective plates, reinforced housing and carbide-tipped picks, heavy-duty Rockwheel drum cutters are almost unbreakable.



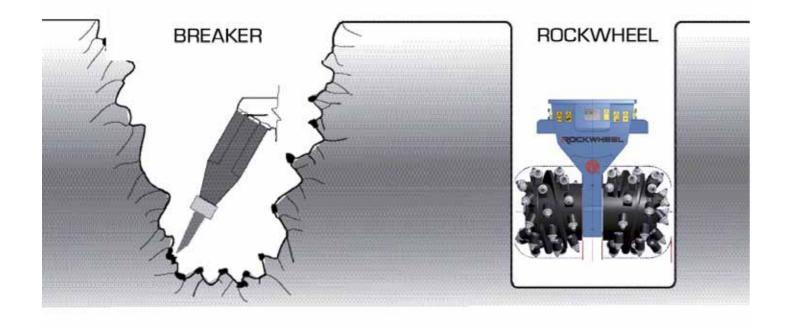
### THAT ROCKS

- Lower vibration minimizes machine wear and environmental impact
- Cuts rebar and flat bar
- Perfect for noise-sensitive locations
- Reusable crushed mate rial (gravel-sized)
- Crushed material can be easily removed
- Rugged steel structure with Hardox reinforcements
- Can be used for removal in layers
- Faster than hammers on similar materials
- No case drain line required
- Mounted spray nozzle ensures dust-free work



# EXCAVATION TRENCH & PIPELINE @

### Cutting is the key for the perfect trench.



### **WORKING WITH BREAKERS:**

In contrast, hammers produce irregular walls and require a funnel shape as a trench's depth increases.

Not only that, but the chipping that results from hammering can unintentionally widen trenches.

Rockwheels eliminate these problems.

### **HIGH-PRECISION TRENCHES** IN RECORD TIME

The only way to achieve consistently smooth and vertical trench walls is by grinding. In fact, Rockwheel drum cutters always cut rock material at their exact drum width regardless of depth, ensuring that trenches always have the planned width.



### ROCKWHEEL **TRENCH AND AXIAL CUTTERS**

Rockwheel trench cutters are the ideal choice for very narrow trenches. Featuring only one rotary drum, they are able to excavate this type of trench, and the integrated stabilizing wheel helps relieve the load on the excavator slewing ring.

Meanwhile, Rockwheel axial cutters are the right choice when it comes to vertical holes in the ground, and also featuring only one rotary cutter in order to ensure that the end result is a perfect trench.

### THAT ROCKS

- Drum width = Trench width
- Three to five times faster than hammers when working on medium hard type of rock
- Reusable ground material (diameter of 1 - 3 cm)
- Consistently smooth and stable trench walls
- Up to 50% less excavation volume
- Extremely powerful and precise
- Most robust design on the market
- Lower vibration and lower noise
- Can be used in sensitive locations such as urban and residential areas









# EXCAVATION FOUNDATIONS @

## Turn to cutting when your bucket reaches limits!

### EFFICIENT IN MEDIUM TO HARD MATERIAL

Between the bucket and the hammer: there's where you will find the drum cutter. This means that Rockwheels are designed to deliver unrivalled results. In fact, they are the ideal solution for excavation projects.

Also, with their cutter drums Rockwheels cut through material and pulverize it three to five times faster than a hammer. Moreover, the resulting gravel-sized material is more manageable and can be removed in a more cost-effective manner.

### PERFECT FOR NOISE-SENSITIVE AREAS

Rockwheel drum cutters are the ideal choice when it comes to problematic projects, such as cities or in urban areas. In addition, the drum cutters feature a lower vibration design, as they won't have any impact on adjacent buildings.









### THAT ROCKS

- The most efficient attachment for medium rock
- Three to five times faster than hammers
- In scenarios where a bucket is reduced to nothing but scratching, a drum cutter can cut through the material effortlessly
- Gravel-sized cut material
- Easy removal
- Lower vibration and lower noise



# HARD WORKER



# PROFILING & SMOOTHING (

### Precision meets effectiveness.

### PRECISION MEETS EFFECTIVENESS

Some jobs requires a combination of precision and power and this definitely applies to profiling and smoothing work. This is where Rockwheels come in: not only do they guarantee impressive power, but they deliver perfectly steady and consistent work thanks to a perfectly fine-tuned pick lacing.

When restoring sensitive concrete structures such as foundations and bridge piers, Rockwheel drum cutters work with levels of precision that no other attachment can match.

In fact, a Rockwheel is the right choice even when it comes to challenging work such as smoothing the walls or blocks.

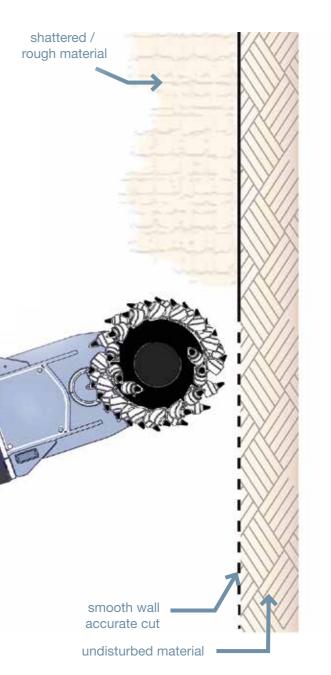
It also makes the operation fatigue-free, which is an important advantage.



### 

- Powerful and precise
- Prevents microcracks Shallow profiling angle of less than 45 degrees
- Steady and smooth work achieved with an optimized pick lacing





# SMOOTH OPERATOR



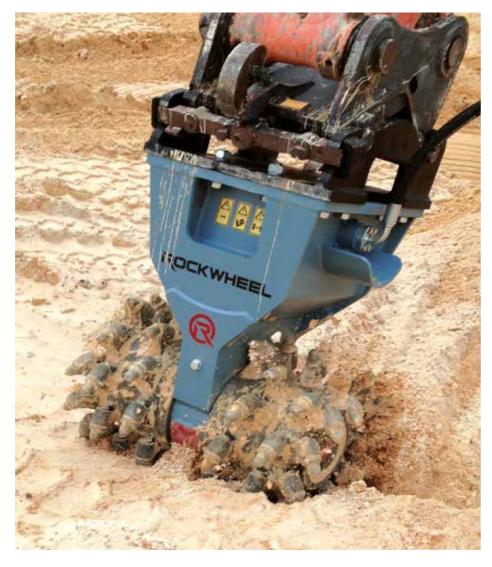
### 3 times greater.

### OPTIMAL CUTTING PERFORMANCE FOR MINING

The extremely short Rockwheels, combined with their sturdy and indestructible housing, are guaranteed to make quick work of the rock being removed. Moreover, they leave projections clearly visible and easy to work on immediately as opposed to ripper teeth, which break up large pieces of rock and make work difficult for excavator operators.

When removed material is internally processed as aggregate, Rockwheels kill two birds with one stone. This stands in sharp contrast to hammers, which produce larger pieces of rock.

Working with Rockwheel units is far less strenuous and exhausting for excavator operators when compared to the bone-breaking blows produced when using ripper teeth. In fact, these units not only go gentle on operators, but also on the excavators themselves by reducing the mechanical load to which the latter are subjected.



### 

- Two to three times better removal performance
- Lower vibration work
   Projections can be cut simultaneously
- Special picks for abra sive material available
- Sandy brine water is not an issue
- Removal performance depends on rock hard ness, toughness, and hard-wearing materials
- Smaller excavated material







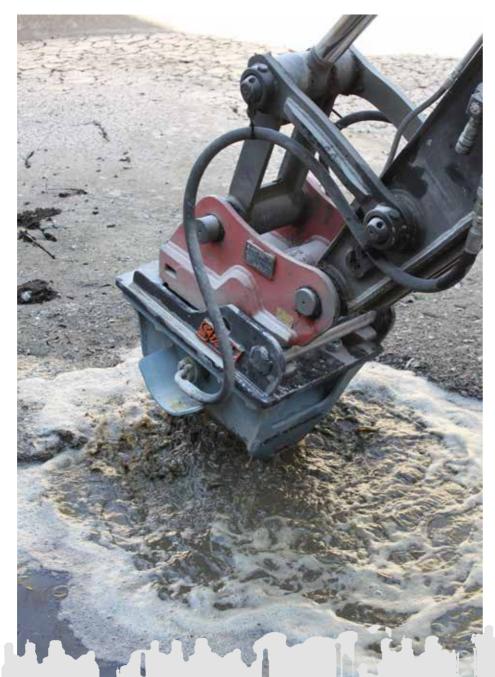
### True workhorses.

### **RELIABLE UNDERWATER POWER WITHOUT THE NEED** FOR ALTERATIONS

Rockwheels are true workhorses when it comes to work in shallow and deeper waters. Whether it involves foundation work, trench construction, lowering the water table, or other tasks, Rockwheels are the safest and most effective and reliable choice for underwater jobs.

And unlike hammers, which require extensive alterations, Rockwheels can be used underwater at any time and instantly. In fact, Rockwheel drum cutters will continue to work reliably and efficiently without any alterations and therefore they are the perfect choice for soft to hard materials either above or below water.

As for underwater work with poor visibility, a GPS positioning system for the excavator and the drum cutter can be invaluable. Moreover, divers can monitor underwater work safely.







- Underwater reliability without the need for alterations
- Same areas of application as above water
- Every fourth or fifth cutting unit job is an underwater project
- Every single underwater specialist owns a drum cutter



# 



• Extreme depths of over 2,000 m are possible

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the mining applications. In the past they have been used on Roadheaders.

Rockhweel Inventor Ian Webster designed the stand alone cutters 25 years ago.



# TUNNELING 🖉

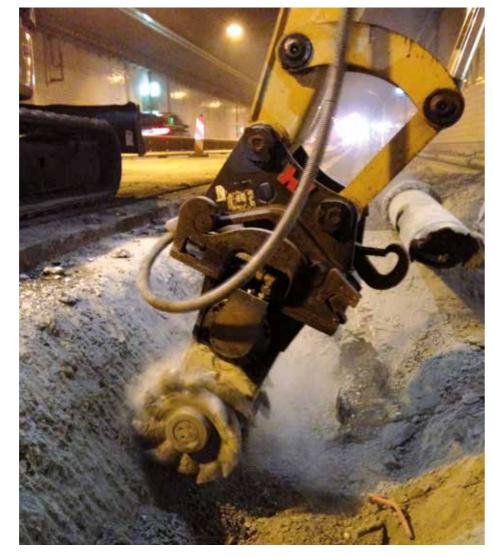
# More precision.More speed. More efficiency.

### **EVERY TUNNEL USES A** ROCKWHEEL

Tunnel construction not only requires precise and powerful work, it's crucial that cracks are prevented. This is where low-vibration cutting can prove to be invaluable, as it prevents the production of dangerous cracks and undesirable vibrations.

Rockwheel drum cutters shape tunnels, remove projections, and when used with a rotator, have an operating radius of 360°. Moreover, they have a mounted water spray nozzle that can be used to directly suppress dust. Finally, the cut material has the size of gravel, making it easy to remove from the tunnel site.

Whether a tunnel will be used for rail, road vehicles, watercraft, pedestrians, pipes, or power cables, Rockwheel drum cutters are the perfect choice thanks to their combination of precision and efficiency.





- Lower noise and lower vibration
- Prevent microcracks
- Fatigue-free work
- Operating radius of 360° with rotator
- Mounted spray nozzle ensures dust-free work
- Remove projections
- Gravel-sized cut material
- Eliminate landfill and disposal fees

The drum cutter has its origin in

# $\overline{\triangleleft}$ <u>arne</u> $\square$ ົທ



### Roadrunner – Surely faster.

### **CUTTING IN ALL POSITIONS**

Whether it is for horizontal or vertical work – Rockwheel patch planers are always cost-effective and high-performance attachments. Roadrunner heavy-duty units certainly make a compelling case for being selected to use on asphalt, rock, concrete and contaminated surfaces.

Their low vibration, perfectly straight alignment, and parallel cutting edges make them the ideal attachment for repairing surfaces, performing precise contouring work, and efficient milling.

When it comes to asphalt work, the Roadrunner combines all three usual steps. The perfectly straight and the adjustable cutting depth eliminate corrective cutting and imprecise breaking. Moreover, the gravelsized milled material can be reused immediately, eliminating landfill and disposal fees.





### THAT ROCKS!

- Vertical and horizontal work
- Angled and overhead work
- Milling and contouring
- Continuously adjustable cutting depth of 0-120 cm
- Cutting depth ensures level milled surfaces
- Material can be immediately reused as backfill
- Eliminate landfill and disposal fees



# STEEL MILLS

### Stays cool.

### **WORKING UNDER** EXTREME HEAT

Rockwheel drum cutters are perfect for the precise profiling of the interior surface of cauldrons or boliers at steel mills, removing both projections as well as residues. Drum cutters are able to withstand the residual heat in cauldrons better than any other conventional attachments. and in contrast to hammers are able to precisely profile boilers without punching any holes into the boiler wall.

Every time oil, gas, or solid fuels such as coal, wood, or steel are burned, residues such as ash, soot, sludge, and slag are produced. These residues settle inside the boiler and need to be removed.







# LANDSCAPING

### Cutting force above ground.

### **QUICKER STUMP GRINDING**

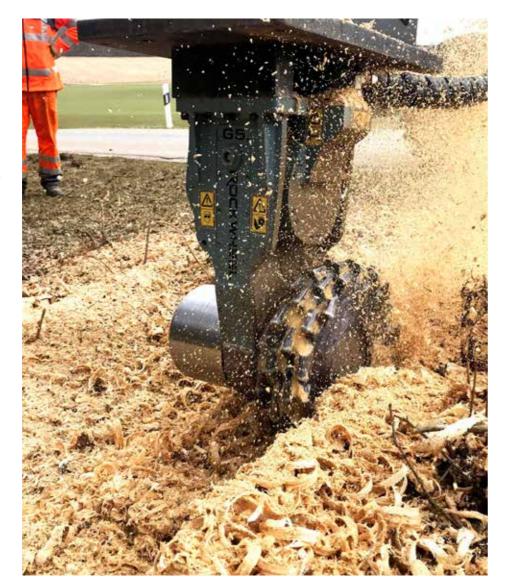
There are two efficient solutions available:

### **Rockwheel with** wood picks

Standard picks can be quickly replaced with wood picks. These wood picks are not only rugged, they are also unaffected by the rocks commonly found among roots.

### **Rockwheel with** wood drums

Another option is using a wood cutting wheel, which features sharp blades that can grind roots and tree stumps in less time. Additionally, the fact that this wood cutting wheel has a large diameter guarantees an extremely high peripheral velocity.





### **FORESTRY AND TRAIL BUILDING**

Their powerful performance makes drum cutters indispensable when building and maintaining trails and roads for pedestrians and vehicles.

Clearing roots from the ground, cutting thick hedges, and building trails through thick underbrush are just some of the applications that these drum cutters can tackle precisely, quickly and quiet.

### LANDSCAPING AND EARTHWORK

Loosening compacted soil is one of the tasks that needs to be taken care of when creating new landscaping, and a Rockwheel C2 or G5 on a small excavator is a powerful and efficient way to take care of it.

Needless to say, using small excavators also comes with an additional benefit in that it prevents damage to the adjacent site. This means that preparing drains, lawns, walkways etc. could not be easier.

# 

### THAT ROCKS

- It takes 15 minutes to replace standard picks with wood picks
- High peripheral velocity makes wood cutting wheel three times faster
- Wood cutting wheel with sharp blades
- Clear underbrush, roots, thick hedges
- Quickly loosen compact ed soil

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• Prepare drains and walkways

# SOIL MIXING @

### The Performance with Economy.

### CUT THE COSTS WITH HOMOGENEOUS MIXING

Rockwheel soil mixers are used to compact and stabilize soil and to carry out environmental remediation work.

An optimal paddle arrangement guarantees the homogenous mixing of the substrate or of the substrate with an additive.

One of the many applications is treating contaminated material onsite in such a way that pollutants are reliably prevented from leaching. In fact, this can completely eliminate the need to dispose of material at hazardous waste landfills, thereby avoiding the high cost and complexity involved in doing so.

Our soil mixers can be used with compact excavators or carriers within a range of up to 125 metric tonnes. Optional equipment options include depth limiters, extensions, injectors, and adapter plates.



# THAT ROCKS!

- Homogeneous mixing
- Compacting and stabilizing
- Mixing contaminated material
- Eliminate disposal costs
- Eliminate hazardous waste landfill costs
- Various paddle sizes
- Can be equipped with injectors and depth limiter



# UNLIMITED © FLEXIBILITY



### 360° Work.

### **EXPAND YOUR OPTIONS**

Rockwheel drum cutters operate perfectly with a rotator. This slewing ring with infinite rotation is installed directly on the Rockwheel and performs high-precision cutting. Moreover, the fact that the drum cutter can be rotated in this way means that the operating radius is increased to 360°.

The rotator unit ensures that the rotary cutter will always assume the most effective position for its grinding work, significantly improving overall performance.

Drum cutters with a rotator can be mounted on excavators with an operating weight of up to 50 metric tonnes.

DIOTO





- 360° operating radius
- Faster & heavy duty rotation
- Infinite, variable rotation
- Improves cutting performance in trench & tunnel construction
- Adapter plate makes it possible to do lateral clearing with the cutting unit turned



- easy cleaningsteel brush instead picks

### **ROCKWHEEL WITH A BRUSH**

The easiest way to clean piles!

In the past, crumpled steel mats or or water under high pressure were used for this applicatin, The more efficient way is to use a Rockwheel with a steel brush instead picks.

Soil and other loose material on the piles can be quickly and efficiently removed with a Rockwheel.

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# CLEANING SPECIALIST





### Two united.

### COMBINING CUTTING AND EXCAVATION

Our cut and load bucket, in short term cutter bucket (CB), combines cutting and excavation.

The number of machine combinations that are proving to be invaluable at work sites because of their efficiency and cost-effectiveness is constantly increasing.

This particular combination is ideal for variable soil conditions, as it makes it possible to dig and cut when soft and medium soils are next to each other. Moreover, the gravelsized excavated material can then be used as backfill.

In trench construction applications, precise cutting can result in up to 50% less excavation volume when compared to hammers, with the latter making it necessary to increasingly widen trenches as they get deeper.





- Eliminate constantly changing attachments
- Crushing excavation material on-site
- Mixing excavated material
- Reduce your machines removal and backfill costs



# MAKE THE RIGHT CHOICE

We offer drum cutters for machines with an operating weight of 1 to 125 tonnes.

The number that comes after the model C (Chain), D (Direct) and G (Gearbox) refers to the average operating weight of the excavator.



### THE LIGHTWEIGHT CHAMPION



### Rockwheel with chain drive

- Power: 9.5 kw
- Maintenance-free chain drive unit
- 66 kg the lightest unit in the market
- Ideal for micro and mini excavators from 1 to 3 t



### THE BEST SOLUTION FOR COMPACT-EXCAVATORS

### G5 / G5 TWIN

### Rockwheel with gearbox drive

• Power: 22 / 44 kW

a shaha fi

- · Transmission with ratio for maximum torque
- Available with a second motor for double the power
- · For excavators from 3 to 12 t

POCKWHEEL

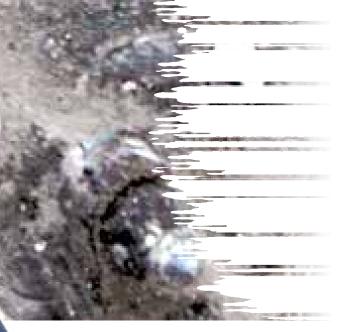
### **OPTIMUM VALUE FOR MONEY**

### D10 / D15 D20 / D30

### Rockwheel with direct drive

- Power: 29 / 41 / 70 / 110 kW
- Robust Technology with only three main components: housing, motor and cutting drums
- For excavators from 8 to 38 t





### **PURE POWER**

### G40 / G50 G60/ G125

Rockwheel with gearbox drive
Power 140 / 140 / 220 / 400 kW
Twin motor technology power and optimum weight distribution
Solid and heavy-duty design for a long life
For excavators from 35 to 125 tonnes

## FIND EVEN MORE!

For every application the right tool. Ensuring that you always get the very best cutting performance.



### AX10 / AX15 AX20 / AX30

### **Rockwheel for holes**

- power: 29 / 41 / 70 / 110 kW
- fast and precise
- for excavators from 8 38 t



### STRONG WITH STABILISATION



### **Rockwheel for faster trenching**

- power: 70 / 110 kW
- with stabilisation wheel
- for excavators from 16 38 t



### PATCH PLANER

RR200 RR300 RR400 RR600

### Profiling and Cutting

- power: 18 / 30 / 40 / 44 kW
- cutting depths from 0 to 120 cm stepless adjustment
- for excavators from 1 14 t



**CUT & LOAD** 

### CB15 / CB20 CB30

### **Rockwheel with**

### direct drive in a bucket

power: 41 / 70 / 110 kw
cut, crush, mix and load
small gravels
for excavators from 16 - 38 t



# SUPERIOR ENGINEERING @

Even hard facts and figures can be impressive. See for yourself!

### **ROCKWHEEL DRUM CUTTERS**

Туре		C2	G5	G5 twin	D10	D15	D20	D30	G40	G50	ĺ
Excavator size	t	0.7 - 2.5	2,5 - 6	5 - 10	8 - 12	12 - 18	17 - 26	25 - 38	35 - 45	42 - 52	
Hydraulic power	kW	9.5	22	44	29	41	70	110	140	140	
Operating weight	kg	66	181	200	426	595	1.170	1.444	1.662	2.458	
Maximum pressure	bar	225	400	400	400	400	400	400	400	400	
Working pressure	bar	50 - 225	180 - 400	180 - 400	180 - 400	180 - 400	180 - 400	180 - 400	180 - 400	180 - 400	
Max. oil flow	l/min	60	65	100	112.5	132	320	460	540	540	Γ
Optimum oil flow	l/min	30	40	80	60	120	220	320	360	360	
Reduction ratio		1:1	2:1	2:1	1:1	1:1	1:1	1:1	1.3:1	1.2 : 1	
Drum speed	rpm @l/min	98 @30	50 @40	95 @80	80 @60	96 @120	78 @220	76 @320	49,6 @360	52 @360	
Pick speed	m/s @l/m	1,39 @30	0,89 @40	1,7 @80	1,8 @60	2,4 @120	2,2 @220	2,7 @320	1,8 @360	2,1 @360	Γ
Cutter torque	Nm @bar	1095 @225	4429 @350	4696 @350	4173 @350	6945 @350	14272 @350	23362 @350	40325 @350	37.833 @350	
Pick force	kN @bar	8 @225	26 @350	29 @350	19 @350	29 @350	48 @350	69 @350	118 @350	104 @350	
Number of picks	No.	46	32	32	56	64	64	60	54	56	
Size of pick holder	mm	14	19	19	19	19	25.4	38 / 30	38 / 30	38 / 30	
Drum diameter	mm	270	340	340	423	475	646	677	684	726	
Drum width	mm	300	405	405	743	832	1058	1156	835	1050	Γ
Drum spacing	mm	60	82	82	103	118	143	143	202	250	
Cutter length	mm	509	618	618	798	937	1155	1170	943	1356	
Dimensions of adapter plate	mm	256 x 160	318 x 220	318 x 220	560 x 410	650 x 495	700 x 650	700 x 650	700 x 650	800 x 650	

# THE FACTS AND FIGURES

<b>G</b> 60	G125
50 - 70	70 - 125
220	400
2.478	5.420
400	400
180 - 400	180 - 400
680	1000
540	800
1.2 : 1	1.2 : 1
64 @540	40 @1.000
2,4 @540	1,9 @1.000
46900 @350	137160 @350
129 @350	296 @350
56	76
38 / 30	38 / 30
726	925
1050	1494
250	339
1350	1686
800 x 650	1035 x 1065



### **ROCKWHEEL AXIAL CUTTERS**

Туре		TC20	TC30	AX10	AX15	AX20	AX30
Excavator size	t	17 - 26	25 - 38	8 -12	12 - 18	17 - 26	25 - 38
Operating weight	kg	962	1.173	390	390	885	968
Number of picks	No.	32	30	28	32	32	30
Size of pick holder	mm	25,4	38/30	19,4	19,4	25,4	38/30
Drum diameter	mm	650	680	423	475	646	678
Cutter length	mm	1.000	1.030	820	1.170	1.340	1.382
Dimensions of adapter plate	mm	650 x 495	650 x 495	560x360	560x700	650 x 700	650 x 700

### ROCKWHEEL PATCH PLANERS

Туре		Roadrunner 200	Roadrunner 300	Roadrunner 400	Roadrunner 600	
Excavator size	t	1 - 3,5	5 - 8	8 - 14	12 - 18	
Hydraulic power	kW	18	30	40	44	
Operating weight	kg	140	450	600	750	
Working pressure	bar	180-400	180 - 210	180 - 210	130 - 300	
Optimum oil flow	l/min	30 - 40	60 - 80	100 - 125	120 - 125	
Cutting distance from kerb	mm	50	50	50	80	
Cutting line spacing	mm	8	10	10	10	
Drum speed	rpm	75 - 101	150 - 200	130 - 170	130 - 170	
Number of picks	No.	36	43	58	66	
Cutting depth	mm	10 - 20	0 - 120	0 - 120	0 - 170	
Drum width	mm	170	300	400	600	

### **ROCKWHEEL CUTTER BUCKET**

Туре		CB15	<b>CB</b> 20	<b>CB</b> 30
Excavotor size	t	12 - 18	17 - 26	25 - 38
Operating weight	kg	951	1.838	1.968
Number of picks	No.	64	64	60
Drum diameter	mm	474	650	680
Cutter length	mm	1.490	1.000	1.030

# DRUMS AND PICKS

For each application.



WITH HELIX Demolition



WITHOUT HELIX excavation and other works





Profiling

WOOD DRUM tree stumps



WITH PADDLES soil mixing



**RIPPER-**TOOTH

Especially for working in narrow trenches is the ROCKWHEEL RIPPER TOOTH

### WATER SPRAY BAR

The dust can be easily controlled by Rockwheel WATER SPRAY BAR.



STANDARD-PICKS soft up to medium material



**MEDIUM DUTY, HEAVY-DUTY AND SUPER DUTY PICKS** 

> medium up to hard material



HARD FACING PICKS abrasive material



**WOOD PICKS** stump grinding





# ADDITIONAL OPTIONS

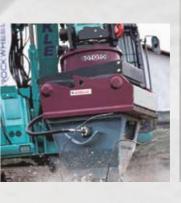
### Better equipment.

### **ROTATION UNIT**

You will get 360° working radius especially for sensitive areas an tunnels.

### **MULTI ADAPTER-**BRACKET

One adapter bracket for multiple machines.







# A RELIABLE PARTNER EVERY TIME



www.rock.zone



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