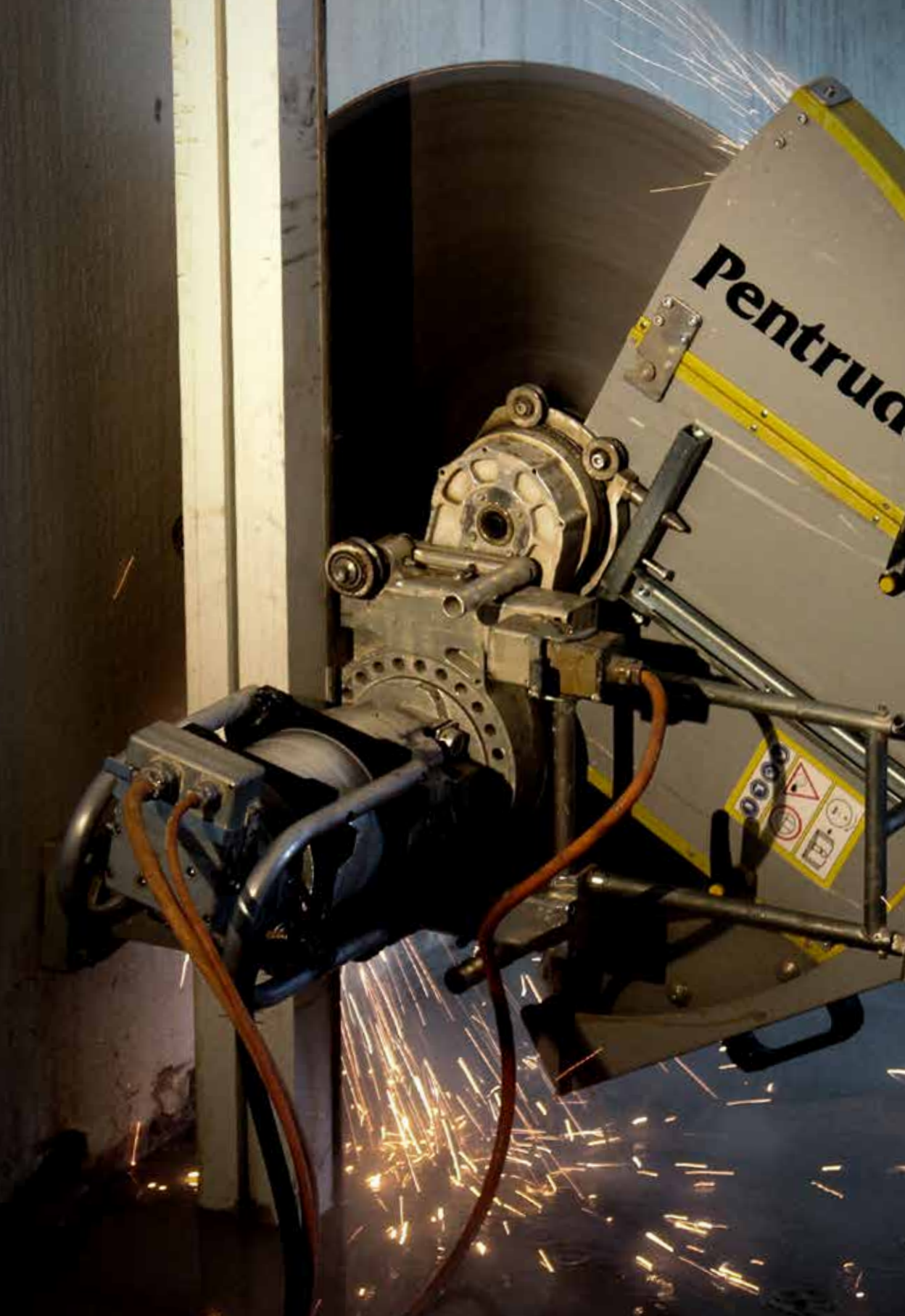


Portulac®

CONCRETE CUTTING MACHINES





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OUR PRODUCTS ARE BUILT TO PERFORM

We know what it takes to design and build high quality machines with performance that lasts in tough conditions



Building on experience

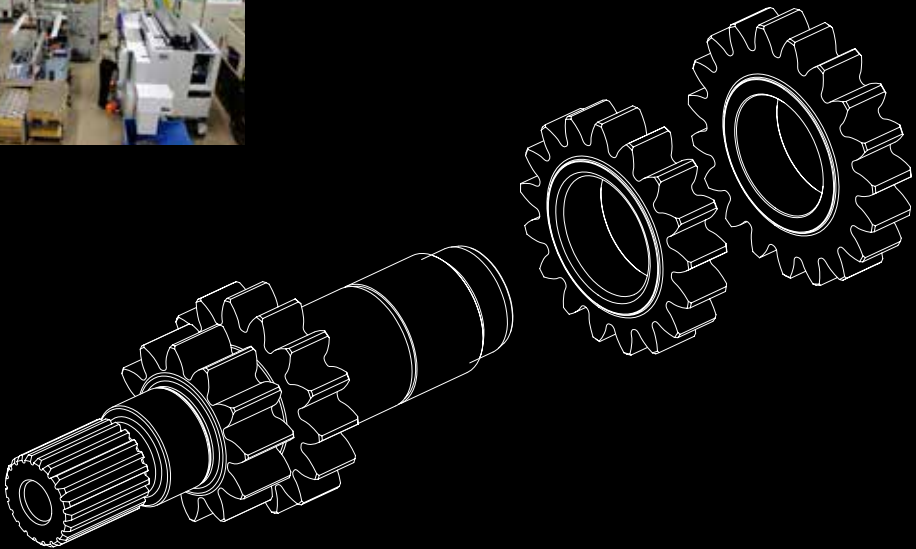
Pentruder is designed and manufactured by Tractive AB, a Swedish family owned company specializing in design and manufacturing of two different product lines, Pentruder concrete cutting machines and Tractive motorsport transmissions.

"The same kind of transmission technology for transmitting power is used in both product lines," states Anders Johnsen, leader of the design team at Tractive.



We have over 40 years experience in design, development, and manufacture of high quality and highly stressed gears and transmissions. We have developed special gear geometry designs and our gears are strong enough to handle the torque they transfer.

Thanks to extreme precision in the manufacturing process, the gears work with very little friction against each other. This is important for high power and durability.



Made in Sweden - with pride and precision

We design, manufacture and assemble our products in-house, guided by sound engineering principles and modern simulation tools, to reach the highest level of function, performance and durability.

Precision machined parts are never better than the material they are built from. Therefore, we only choose the best materials. Solid billets of aerospace aluminum are machined to create light weight, yet very strong, machines. High quality special alloy steels are used for high strength gears, shafts and other stressed parts.

The precision manufactured parts are assembled by our skilled and dedicated mechanics in small batches.

Nothing is left to chance in order to deliver highly reliable products to our customers.



The Pentruder Family

Pentruder concrete cutting equipment is shipped world wide on a daily basis. We are a constantly growing family, and the Pentruder machines are currently used in over 40 countries.

Pentruder products are built to last. With the right maintenance it will be a productive tool for years and years. Service workshops with Pentruder trained and authorized technicians are located in over 25 countries.



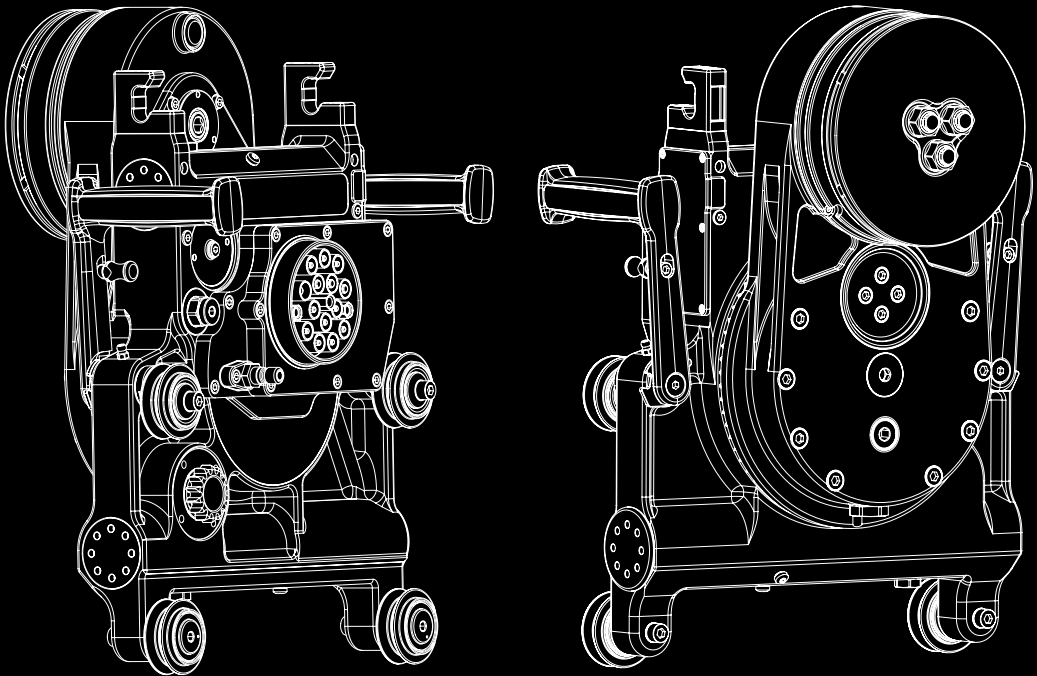
WE INNOVATE SO YOU CAN GET THE JOB DONE

We are not restricted by what has already been done

Therefore we think in new and untraditional ways. Innovative designs tempered by experience.

Our strength is to use advanced but reliable technical solutions. This, in combination with the possibilities given by sound engineering principles and modern simulation tools, creates products which are ahead in their field.

Possibilities and willingness to go outside traditional boundaries in the design process are key factors for innovative design.



Attention to detail

For us it is personal. Every person working at Tractive knows that his or her work and attention to detail has a direct impact on the product quality and thus customer satisfaction.

It is a great responsibility which is happily taken on by everybody and at every step of the process from design to after sales support.

Modular, powerful and light weight - the new HFi system from Pentruder

When designing this concept, Pentruder had user friendliness, power to weight ratio and reliability as top priorities. And we didn't give up until we reached our goal.

The Pentruder HFi system is the perfect combination of low weight, high power and ease of use. Built to perform for years to come.

Features like integrated drive motor, only one sturdy connector on the machine and a small light weight Pentpak which will drive a range of products will make the everyday work of the operator easier. Use the same track system as with the HF machines for maximum modularity. Shorten setup times and increase your productivity with Pentruder!

Bonus features such as top serviceability, built in safety features and a waterproof Pentpak will make owning a Pentruder even nicer in the long run.



PENTRUDER

MODULARITY AND SIMPLICITY

The Pentpak 3 drives a range of HFi products

Modular system with significantly lower machine weight

Only one connector on machine and power pack

Only one cable to the wall saw or core drill

Very high efficiency in the whole system

Same track system as all other Pentruder machines

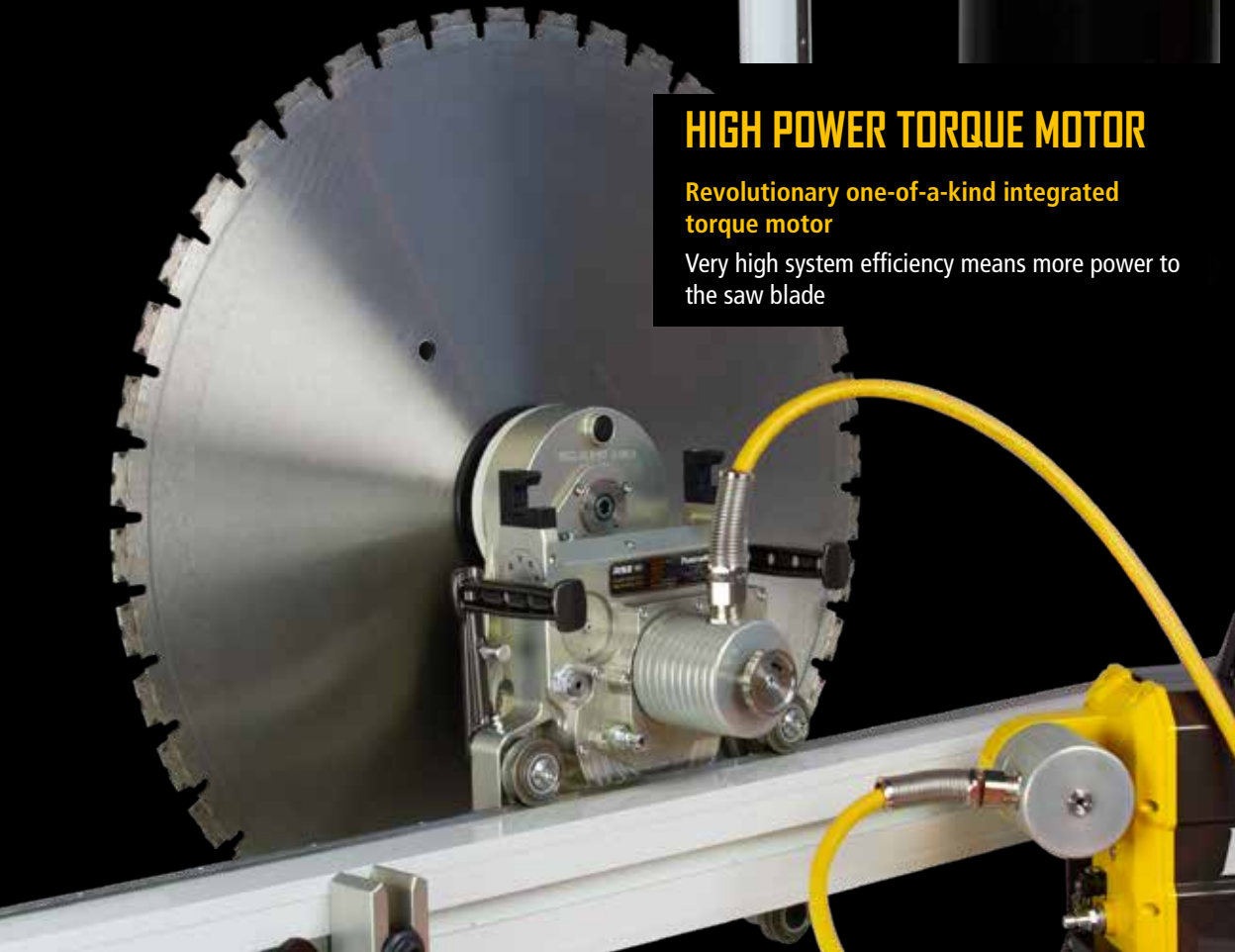
Highest stability and best handling



HIGH POWER TORQUE MOTOR

Revolutionary one-of-a-kind integrated torque motor

Very high system efficiency means more power to the saw blade



HFI SYSTEM

LOW WEIGHT

Very compact, high power machines

RS2 wall saw weighs under 24.5 kg with max output power of 18 kW

SHORTER SETUP TIMES

Quick disconnect coupling for blade

Easy fitting of blade

Only one connector

Simple to connect and disconnect

Light weight, easy to fit blade guard

Best protection and handling

BUILT FOR LOW MAINTENANCE

Designed with the customer in mind

Less components

Very easy oil change

Connectors service needs only hand tools

Efficient slip clutches for all motors

Brushless feed motors

PENTPAK 3

Low weight

13 kg

Very robust and low maintenance

Waterproof, IP67

Robust and repairable connector

Made in house for maximum durability. Replace connector inserts easily with standard hand tools

Electrical safety features

Highest EMC level

Built in RCCD - Residual Current Breaker Type B





RS2

SMALL WALL SAW WITH LARGE CAPACITY

TECHNICAL DATA

BLADE INFO

Max saw blade diameter	1600 mm
Max cutting depth with max Ø blade	715 mm
Max start Ø blade	830 mm

WEIGHT

Weight saw head incl motor	24.5 kg
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SAW BLADE MOTOR

Integrated torque motor

MAX OUTPUT POWER

18 kW

MAX OUTPUT TORQUE

148 Nm

SPINDLE SPEED UNDER LOAD

570-1050 rpm

MAX TRAVEL SPEED

2.6 m/min

MAX ARM ROTATION

2.4 rpm/min

IP CLASSIFICATION

IP67





HEAVY DUTY CORE DRILL WITH VERY LARGE SPEED RANGE

TECHNICAL DATA

MAX DRILL BIT Ø

1000 mm

NOMINAL POWER

11 kW

MAX OUTPUT POWER

10 kW

SPINDLE SPEEDS

150 - 1800 RPM

WEIGHT WITH AUTOFEED

14.5 kg

IP CLASSIFICATION

IP67



THE PENTRUDER

High precision cuts

Large diameter axial arm bearing

Maximum rigidity for cut precision and reduced blade wear

Optimal vertical roller configuration

Provides alignment of forces for stability and cut precision

Conical self cleaning low wear rollers

Best support and control of the saw head

Vertical orientation aluminum track

Maximum stiffness and lightweight

Best cutting performance

Multistep gearbox

For maximum torque with any blade size

Variable spindle speeds within each gear

Maximum cutting control for each blade size

Pentruder autofeed

Maximum power output at all times for smooth and uninterrupted cutting

Easy setup

Easy to use track system saves time and trouble when setting up the machine

Swivelling track feet only need to be set up once in each corner when cutting a rectangular opening

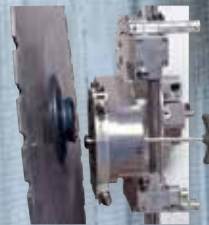
Quick release for HF motor

Installation or removal in a few seconds



Quick disconnect blade flange coupling

Radial mounting of the saw blade



HF SYSTEM

Robust, lightweight build

Aircraft grade billet aluminum

Durable, lightweight saw head - stronger than castings

Adjustable lightweight blade guards

Choose from swing, parallel, full, or flush

Robust and repairable connectors

Made in house for maximum durability. Replace connector inserts easily with standard hand tools.

High power and reliability

Powerful HF motors

High torque and power, superior materials and precision ground gears and efficient internal cooling

Internal HF motor double cooling system

Sustained power and high efficiency

Integrated HF motor slip clutch

Protects the HF motor if a blade is jammed

Integrated stick-slip arm clutch

Reduces vibration for cut precision, reduces blade wear, and protects arm transmission



Watch short operator manuals for Pentruder HF Wall saws at our Youtube channel. Scan the QR-code or visit us at www.youtube.com/c/PentrunderConcreteCuttingSystems

HIGH TORQUE WALL SAW FOR BIG BLADES AND TOUGH AGGREGATE

TECHNICAL DATA 8-20iQ wall saw

BLADE INFO

Max saw blade diameter	2000 mm
Max cutting depth with max Ø blade	915 mm
Max start Ø blade	1000 mm

WEIGHT

Weight saw head	25.5 kg
Weight 22/27 kW HF-motor	18 kg

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

22/27 kW

MAX OUTPUT TORQUE

22/27 kW HF-motor	480 Nm in 1 st gear
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SPINDLE SPEED UNDER LOAD

	22kW	27kW
1 st	350 - 510 rpm	360 - 520 rpm
2 nd	500 - 735 rpm	520 - 750 rpm
3 rd	630 - 925 rpm	660 - 940 rpm
4 th	790 - 1165 rpm	830 - 1180 rpm

In each gear, the spindle speed is electronically variable with the remote.



Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



22kW HF-motor



Pentapak 427



Cable remote control HF



400 V Cable



24 V Cable

Track system



TS-track 1.5 m



TS-track 2.3 m x2



TF2S Track foot symmetric x 4



TSS300 Joint block



TSP1 Track stop x 2

Blade guards and flanges



GS Full 800 mm



GS Full 1200 mm



GSF Flush 800 mm



GH-SW1 Blade guard frame for standard guards



QE Blade flange assembly
QE60 - Ø 60 mm arbor x2



QEF60-130 Flush cutting flange, 6xM8, BC 130 mm

Other Accessories



Covers for digital connectors



Toolkit for Pentrunder Wall saws



Transport trolley TYHF for Pentrunder HF-wall saws

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

8-20HF

**A STRONG AND VERSATILE WALL
SAW WITH 4 GEARS FOR MAXIMUM
POWER AND TORQUE**

TECHNICAL DATA 8-20HF wall saw

BLADE INFO

Max saw blade diameter	2000 mm
Max cutting depth with max Ø blade	915 mm
Max start Ø blade	1000 mm

WEIGHT

Weight saw head	25.5 kg
Weight 22/27 kW HF-motor	18 kg

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

22 kW

MAX OUTPUT TORQUE

405 Nm in 1st gear

SPINDLE SPEED UNDER LOAD

22 kW

1 st	350 - 510 rpm
2 nd	500 - 735 rpm
3 rd	630 - 925 rpm
4 th	790 - 1165 rpm

@ 300 - 400 Hz, in each gear, the spindle speed is electronically variable with the remote.

Pentruder

Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



22kW HF-motor



Pentapak 427



Cable remote control HF



400 V Cable



24 V Cable

Track system



TS-track 1.5 m



TS-track 2.3 m x 2



TF2S Track foot symmetric x 4



TSS300 Joint block



TSP1 Track stop x 2

Blade guards and flanges



GS Full 800 mm



GS Full 1200 mm



GSF Flush 800 mm



GH-SW1 Blade guard frame for standard guards



QE Blade flange assembly
QE60 - Ø 60 mm arbor x2



QEF60-130 Flush cutting flange, 6xM8, BC 130 mm

Other Accessories



Covers for digital connectors



Toolkit for Pentrunder Wall saws



Transport trolley TYHF for Pentrunder HF-wall saws

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

A STRONG AND EASY TO USE, ALL-ROUND WALL SAW

TECHNICAL DATA CBK wall saw

BLADE INFO

Max saw blade diameter	1500 mm
Max cutting depth with max Ø blade	665 mm
Max start Ø blade	925 mm

WEIGHT

Weight saw head	24.5 kg
Weight 22 kW HF-motor	18 kg

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

22 kW

MAX OUTPUT TORQUE

275 Nm

SPINDLE SPEED UNDER LOAD

600 - 996 rpm

In each gear, the spindle speed is electronically variable with the remote.



Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



22kW HF-motor



Pentapak 427



Cable remote control HF



400 V Cable



24 V Cable

Track system



TS-track 1.5 m



TS-track 2.3 m x 2



TF2S Track foot symmetric x 3



TSS300 Joint block



TSP1 Track stop x 2

Blade guards and flanges



GSF Full 800 mm



GSF Full 1200 mm



GSF Flush 800 mm



GH-SW1 Blade guard frame for standard guards



QE Blade flange assembly
QE60 - Ø 60 mm arbor



QEF60-130 Flush cutting flange, 6xM8, BC 130 mm

Other Accessories



Covers for digital connectors



Toolkit for Pentrunder Wall saws



Transport trolley TYHF for Pentrunder HF-wall saws

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

6-12HF

A VERSATILE AND STRONG, MEDIUM SIZE WALL SAW

TECHNICAL DATA 6-12HF wall saw

BLADE INFO

Max saw blade diameter	1200 mm
Max cutting depth with max Ø blade	515 mm
Max start Ø blade	800 mm

WEIGHT

Weight saw head	21 kg
Weight 15 kW HF-motor	13 kg
Weight 18 kW HF-motor	16.5 kg

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

18 kW

MAX OUTPUT TORQUE

245 Nm in 1st gear

SPINDLE SPEED UNDER LOAD

1st gear 550 - 800 rpm

2nd gear 810 - 1200 rpm

In each gear, the spindle speed is electronically variable with the remote..

Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



18kW HF-motor



Pentapak 427



Cable remote control HF



400 V Cable



24 V Cable

Track system



TS-track 1.5 m



TS-track 2.3 m x 2



TF2S Track foot symmetric x 3



TSS300 Joint block



TSP1 Track stop x 2

Blade guards and flanges



GS Full 800 mm



GSF Flush 800 mm



GH-SW1 Blade guard frame for standard guards



QE Blade flange assembly
QE60 - Ø 60 mm arbor



QEF60-130 Flush cutting flange, 6xM8, BC 130 mm

Other Accessories



Covers for digital connectors



Toolkit for Pentrunder Wall saws



Transport trolley TYHF for Pentrunder HF-wall saws

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

6-10HF

**LIGHT WEIGHT, EASY TO USE
AND EFFICIENT**

TECHNICAL DATA 6-10HF wall saw

BLADE INFO

Max saw blade diameter	1200 mm
Max cutting depth with max Ø blade	515 mm
Max start Ø blade	800 mm

WEIGHT

Weight saw head	20 kg
Weight 15 kW HF-motor	13 kg
Weight 18 kW HF-motor	16.5 kg

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

18 kW

MAX OUTPUT TORQUE

15 kW HF-motor	130 Nm
18 kW HF-motor	165 Nm

SPINDLE SPEED UNDER LOAD

815 - 1200 rpm

In each gear, the spindle speed is electronically variable with the remote.



Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



15kW HF-motor



Pentapak 427



Cable remote control HF



400 V Cable



24 V Cable

Track system



TS-track 1.5 m



TS-track 2.3 m



TF2S Track foot symmetric x 3



TSS300 Joint block



TSP1 Track stop x 2

Blade guards and flanges



GS Full 800 mm



GSF Flush 800 mm



GH-SW1 Blade guard frame for standard guards



QE Blade flange assembly
QE60 - Ø 60 mm arbor



QEF60-130 Flush cutting flange, 6xM8, BC 130 mm

Other Accessories



Covers for digital connectors



Toolkit for Pentrunder Wall saws



Transport trolley TYHF for Pentrunder HF-wall saws

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

CWF630

CHAIN SAW ENGINEERED TO STAND UP TO YOUR TOUGHEST JOBS

TECHNICAL DATA CWF630 chain saw

BAR

Max cutting dept	630 mm
Bar length	25 cm to 63 cm

POWER

Motorspeed	6 500 rpm
Output power	9 kW
Torque	13 Nm
Slip clutch	Yes
Flush Cutting	Yes, cuts w/ln 4 mm of wall

POWERHEAD DIMENSION & WEIGHT

Length	58.5 cm
Height	26.5 cm
Width	24 cm
Weight	15 kg with 38 cm bar

VIBRATION & NOISE LEVELS

Vibration level	2.4 m/sec ² (front handle) 4.5m/sec (rear handle)
Sound level	94 dB @ 1 m
Noise level	103 dB @ 1 m



Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



Pentpak 427



400V Cable



Cable remote control HF



Covers for digital connectors

High power, faster cutting



Designed to run ICS bars, chains, and sprockets for optimum performance with cutting depths up to 25 inch / 63 cm.



For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

**COMBINES LOW WEIGHT WITH
EXTRAORDINARY PERFORMANCE FOR
BOTH SMALL & BIG JOBS**

TECHNICAL DATA 3P8 wire saw

SAW BLADE MOTOR

400 Hz high frequency motor

MAX CONTINUOUS OUTPUT POWER

18 / 22 kW

STORAGE

Storage in pulleys

8 m per m stroke
of the carriage
Approx. 20 m

Max storage capacity

PULLEYS

Main drive pulley Ø

500 mm

Storage pulleys Ø

198 mm O.D.

WIRE

Wire Ø

8 - 12 mm

WEIGHT WIRE SAW MODULES

Drive pulley, electric

13.9 kg

Upper assembly

14.9 kg

Lower assembly

19.7 + 12.7 kg

Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



18kW HF-motor



Pentpak 427



Cable remote control HF



400 V Cable



24 V Cable

Wire Saw modules



3P8-UA Upper assembly



3P8-DP-HF Main drive



3P8-LA Lower assembly



Slip clutch 3P8



Satellite pulley x 2

Guards



3P8-TG Guard, upper assembly



3P8-DPG Guard, drive wheel



3P8-LMG Guard, storage



Guard, slack side

70 mm column



CE1-70-3P8
Upper carriage with
automatic feed



CE1-70 Lower carriage,
with FE1 friction brake



CN-F/M column,
conical coupling
1.2 m x 2



Rear support with
female coupling



BFC5 Base plate with fixed
swivelling coupling

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

A HEAVY DUTY AND EXTREMELY POWERFUL CORE DRILL

TECHNICAL DATA MD1 core drill

MAX DRILL BIT Ø WITH CARRIAGE:

Without extension adapter
One ERMD1 extension adapter
Two ERDMD1 extension adapter
Three ERMD1 extension adapter

CEG (gliding, track)

620 mm
830 mm
1020 mm
1210 mm

CER (rollers track)

660 mm
750 mm
not recommended
not recommended

CEI-70 (column)

600 mm
790 mm
970 mm
not recommended

WEIGHT MD1 MODULES

MG41 4-speed gearbox
HFMR-MG41 Adapter with slip clutch,
for MG41 gearbox and HF-motor
ST2 / ST3 Spindle unit for MG41
ERMD1 Extension adapter for MD1

8.2 kg
2.0 kg
7.5 kg
3.3 kg

SPINDLE SPEED AND TORQUE

Torque with spindle unit ST2:

15 kW HF-motor + ST2:
15 kW HF-motor + ST2:

1:st gear	2:nd gear	3:rd gear	4:th gear
0-80 rpm	0-125 rpm	0-215 rpm	0-345 rpm
1450 Nm	910 Nm	530 Nm	330 Nm

Torque with spindle unit ST3:

15 kW HF-motor + ST3:
15 kW HF-motor + ST3:

1:st gear	2:nd gear	3:rd gear	4:th gear
0-160 rpm	0-260 rpm	0-445 rpm	0-700 rpm
700 Nm	440 Nm	250 Nm	160 Nm



Recommended start package



Use the same HF drive system for your HF wall saws, core drill and wire saw

HF drive system



15kW HF-motor



Pentpak 427



Cable remote control HF



400 V Cable



24 V Cable

Core drill modules



ST2/3 Spindle unit for MG41 with QDC quick disconnect coupling for drill bit



MG41 4-speed gearbox



ERMD1 Extension adapter



QDC drill bit adapters
QDC-1-1/4"
QDC-84, 3 holes, PCD 84
QDC-94, 6 holes, PCD 94



HFMR-MG41 Adapter for HF-motor on MG41 gearbox



HK-1 Hand crank

TS track rig system



TS Track 1.15 m



RST-TS1 Rear support for TS Track



CEG-M25 Carriage, manual feed



BTS-4 Base plate

70 mm column system



CE1-70-MD1 Carriage with automatic feed



CN-F/M column, Female/Male coupling 1.2 m x 2



CE1-70 Carriage, manual feed



Rear support for conical coupling



BFC5 Base plate with fixed swivelling coupling

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative

DRILL RIG



Optional drill accessories



Increase your possibilities with a modular system

Pivoting head and line drilling modules



CEG-PDT1 Pivoting head incl support



CEL-TS Line and corner drilling carriage for TS Track



CT-CEL Back support for CEL-TS



CEL-CN Line and corner drilling carriage for TS Track and CN Column



Rig modules TS track system



CEG-M25 Carriage gliding, manual feed



CER-M3-MD1 Carriage rollers, manual feed



CER-M3-U Carriage rollers, manual feed, for use with other drill motors



ERMD1 Extension adapter



AE-U Adapter plate universal



HL-TS1 Handle with spirit-level indicators



HK-1 Hand crank



Knuckle bar 400 mm, 1/2"



TS Track, 0.85, 1.15, 1.7, 2, 2.3, 3.45 m



TP3 Track stop



RT-TS1 Rear support for TS Track



BT54 Base plate



WT-BTS4 Wheel kit



BT55 Base plate heavy duty



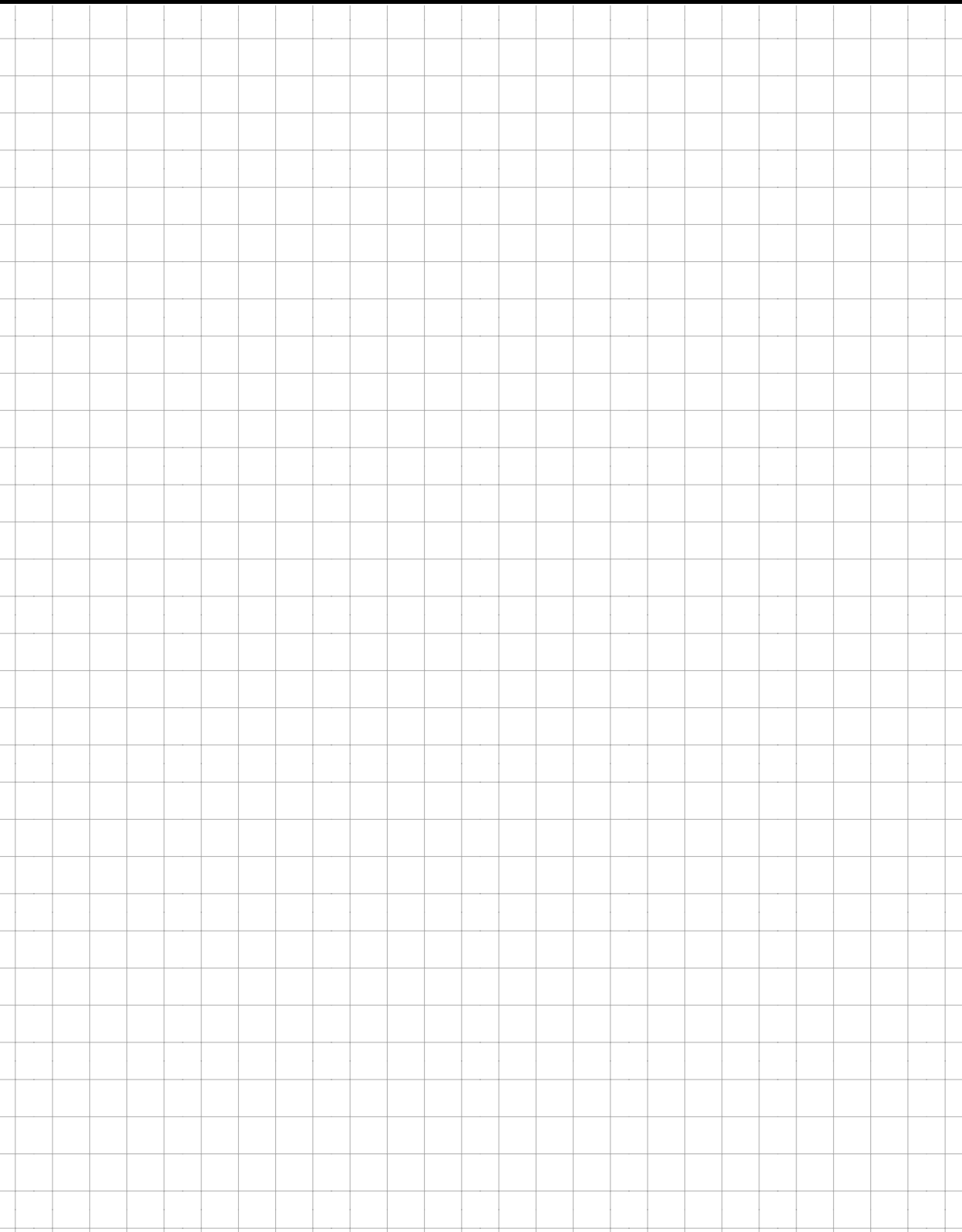
WT-BTS5-200 Wheel kit



WT-BTS5-300 Wheel kit

For more alternatives and accessories please visit www.pentrunder.com or talk to your sales representative







Pentruder[®]

CONCRETE CUTTING SYSTEMS

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