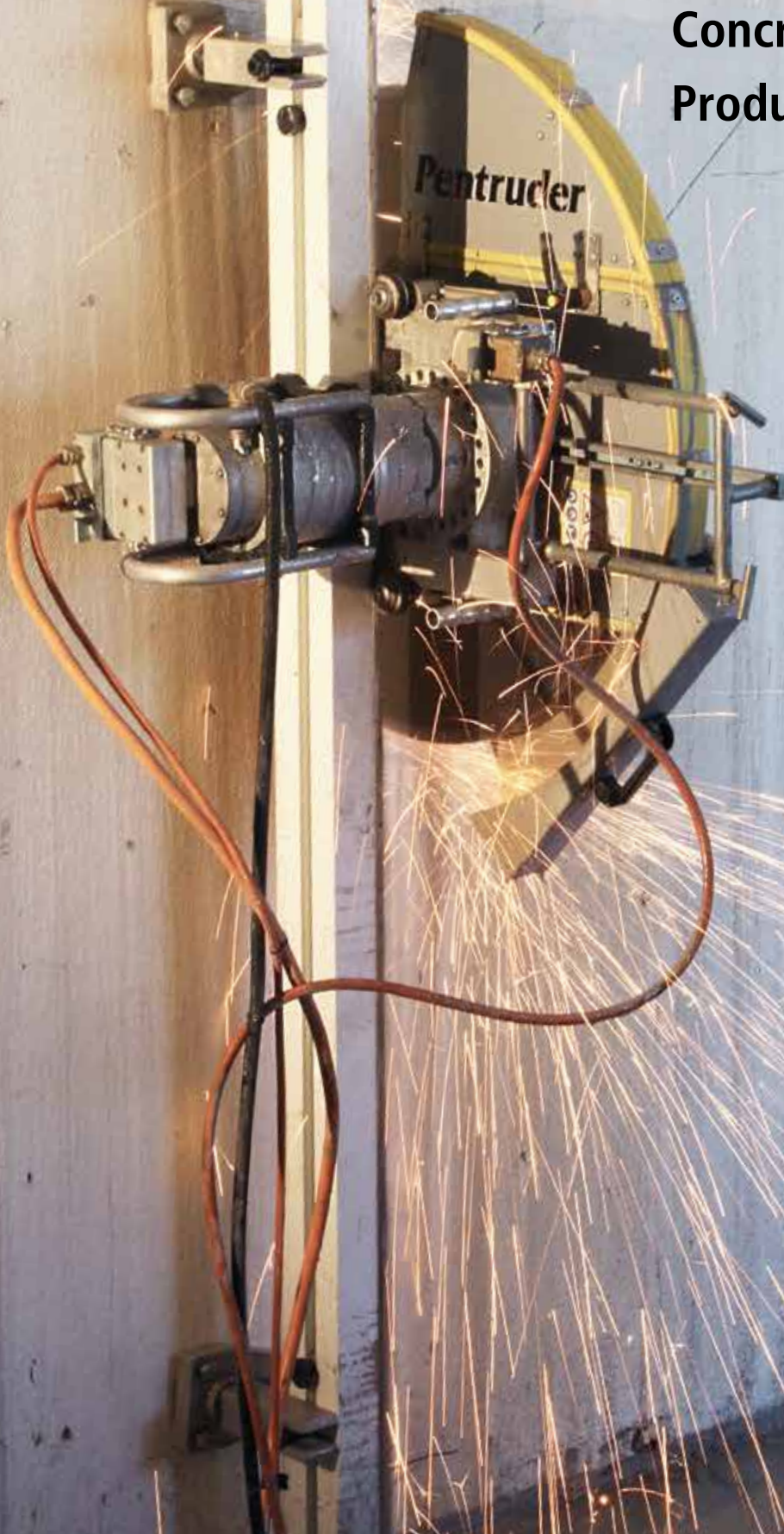


Pentrunder[®]

**Concrete Cutting Systems
Product Catalog 2016**



Durable Performance



Pentruder®

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Pentruder by Tractive

Building on experience

Tractive AB is 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, owner and Chief Designer at Tractive.

Anders has over 40 years experience designing and building transmissions and concrete cutting equipment. He is also a passionate rally driver who along with his wife, talented co-driver, owner, and Director at Tractive, Ingrid Johnsen, has raced in the FIA European Historic Rally Championship Series for many years.



Ingrid and Anders Johnsen, owners of Tractive AB, Rally of the Lakes 2015, FIA European Historic Rally Championship



The dedicated and skilled workforce of Tractive.



An experienced gearbox company

With passion for transmissions

Tractive has 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.



Tractive makes all the gears in-house and grind tooth profiles to very tight tolerances in our ultra high precision gear grinding machine. Aerospace quality is standard.

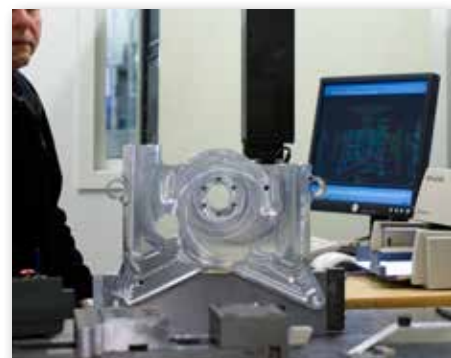


Quality is our priority

All machining and assembly technicians take personal responsibility from programming to finished part. This is an integral part of the Tractive quality assurance.



The entire production of parts is subjected to a rigorous inspection procedure.



All important components, turned or milled, are controlled for accuracy in our 5-axis CNC co-ordinate measuring machine or other highly accurate specialized inspection or measuring equipment.

Made in Sweden with pride and precision

In house manufacturing

Design and manufacturing work hand in hand to create a high quality product. We have a top modern workshop with state-of-the-art production equipment.

By manufacturing the components of our Pentruder concrete cutting equipment ourselves in-house, we have full control of quality throughout the entire production process. Quality must be produced at the source!



To achieve the highest possible level of quality and precision, we use ultra-modern CNC-controlled production equipment for all manufacturing processes.



Skilled and experienced technicians are crucial when it comes to building high performance machines.

The Pentruder Concrete Cutting System is

Innovative design

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 borders in the design process are key factors for innovative design.

At Tractive we are not restricted by what has already been done. We think in new and untraditional ways.

Innovative designs tempered by experience.



The experience from building racing transmissions for cars is put to good use in the design of our concrete cutting machines

Best materials

The Pentruder wall saws, wire saw and drilling machines are built from superior materials chosen for function, performance and durability component by component. Aerospace aluminum billets and specialty alloy steels are the standard.



The high strength material makes it possible to build high power, yet light weight machines

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.



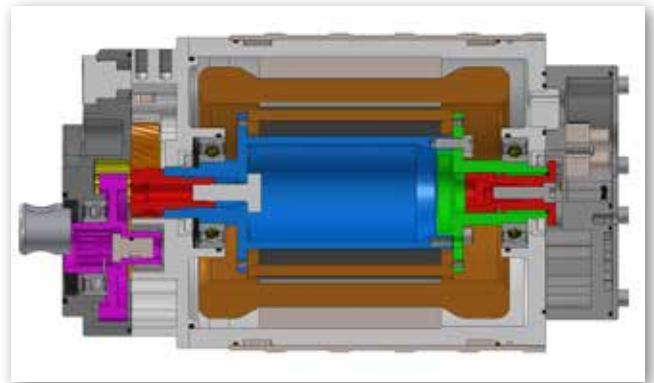
designed and built for durable performance

High power and reliability

The Pentruder high frequency concrete cutting machines are designed with high power and reliability as main targets.

A foundational piece of any Pentruder Concrete Cutting System is the 400Hz High Frequency technology. The 400Hz system is the optimal balance between power density and durability.

Pntruder's 400Hz High Frequency technology ensures high reliability, exceptional bearing life, and minimal and infrequent maintenance.



Section view of HF-motor showing double cooling system for sustained power and high efficiency

Durable performance

Pentruder concrete cutting machines are known for their durable performance.

A combination of advanced and experience-tempered designs, attention to detail, and function-specific materials ensure that your choice in Pentruder is an investment in long-term productivity.



Maximum performance without overloading the diamond tool thanks to superb autofeed

Modular system

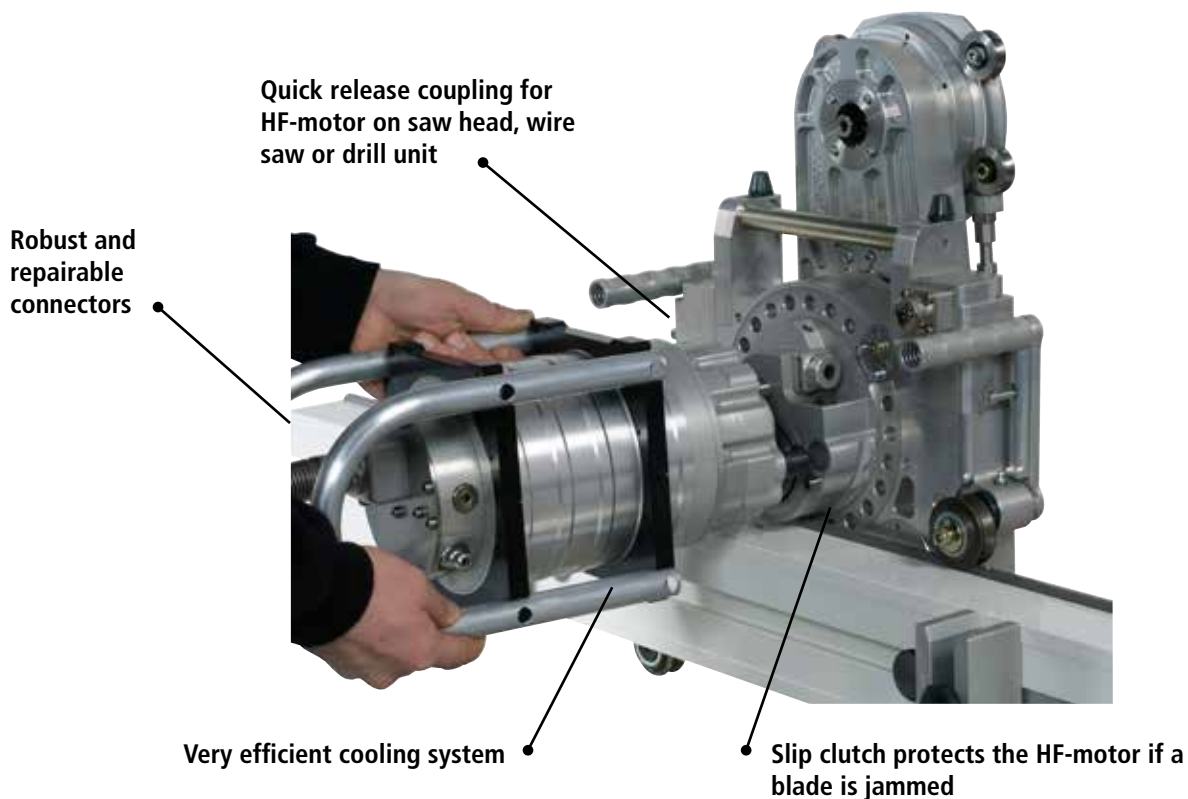
By using the same high frequency drive system for wall sawing, wire sawing, drilling and chain sawing the overall investment is less.











The Pentruder high frequency drive system

HF-motors with reliable power and high efficiency

- Operate a full range of Pentruder high frequency, or HF, equipment simply by connecting the same Pentpak, remote control, motor, and cables to a wall saw, a wire saw or a core drill
- Superior materials. The motor is built of highest quality components, such as a hand built copper rotor, to ensure maximum performance.
- Helical precision ground gears transfer power reliably and with minimal losses and heat build up.
- Reliable 400 Hz technology. Highly reliable motor and long bearing life.
- A double cooling system for the HF-motor gives sustained reliable power and high efficiency.



Overview of HF-motors, power pack and Pentruder machines

	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8	MD1	CW630*
Pentruder HF motors								
15 kW	O	O	O	O	R	-	R	-
18 kW	O	O	O	R	O	O	R	-
22 kW	R	R	R	-	-	R	O	-
27 kW	O	-	O	-	-	O	-	-
Pentpak 427	R	R	R	R	R	R	R	R

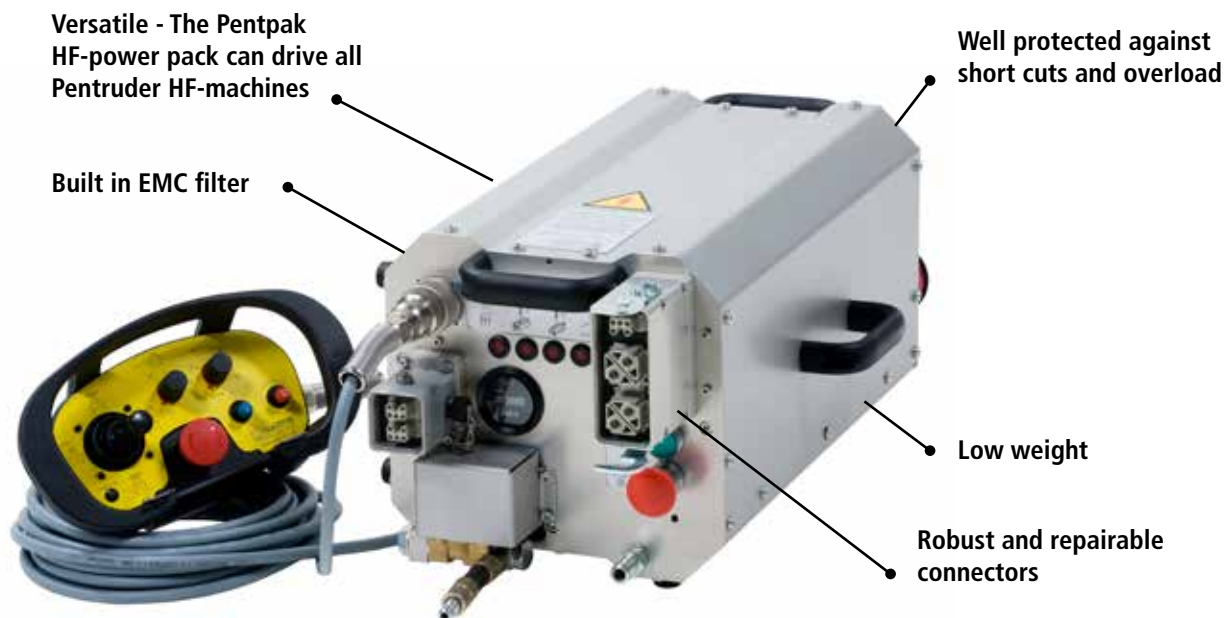
* The HF motor is fixed on the CW630 chain saw

R = Recommended, O = OK, - = not possible

Modularity for professional concrete cutters

Pentpak 427, a light weight power pack for all Pentruder HF-machines


- Thanks to our digital communication system the same high frequency drive system is used for wall sawing, wire sawing, drilling and chain sawing
- The power pack will recognize what motor and machine it is connected to and automatically use the right software for optimum easy of use and performance.
- Thanks to the intelligent Pentruder autofeed system, the high frequency machines will always work at maximum power and the cutting will be smooth and uninterrupted.
- Intelligent software makes it possible to run the HF machines on such small fuses as 16 ampere (up to 22 kW) at 380 - 480 volt.
- The Pentpak high frequency (HF-)power packs are made from top quality components chosen for their reliability and longevity.
- The HF-power pack is insensitive for fluctuations in power. The frequency inverter works as a stabilizer for incoming power and protects the electrical drive motor.



Technical Data Pentruder high frequency drive system

Pentpak 427 HF-power pack	15 / 18 / 22 kW HF-motor	27 kW HF-motor
Input voltage	380 – 480 V	380 – 480 V
Input frequency	50 – 60 Hz	50 – 60 Hz
Minimum fuse	16 Ampere	32 Ampere
Recommended fuse	40 Ampere	63 Ampere
Current draw at max output	56 Ampere	63 Ampere
Recommended gen.size	45 kVA	45 kVA

Modules high frequency drive system

Part number	MCCS Code	Description	Weight
Pentruder High Frequency motors			
07154001DIG	HFR415	High Frequency Motor, 15 kW - 400V	13 kg
07184001DIG	HFR418	High Frequency Motor, 18 kW - 400V	16.5 kg
07224001DIG	HFR422	High Frequency Motor, 22 kW - 400V	18 kg
07274001DIG	HFR427	High Frequency Motor, 27 kW - 400V	18 kg
<div>   </div> <div> <i>HFR415</i> <i>HFR427 HFR422 HFR418</i> </div>			
Pentpak High frequency power pack, cables and remote control units for all Pentruder HF-machines			
09274001DIG	PP427	High Frequency Power Pack, 27 kW, 380 - 500V, 50 - 60 HZ	26 kg
64900201	HV400-9-30	High voltage cable, 400V, 9m	6.6 kg
64900101	LV24-9-30	Low voltage cable, 24V, 9m with water hose	5.5 kg
64190401	CRC-HF	Cable Remote Control	3 kg
WRC-HF	WRC-HF	Wireless Remote Control	1.5 kg
<div>      </div> <div> <i>PP427 Powerpack</i> <i>HV400-9-30 400 V Cable</i> <i>LV24-9-30 24 V Cable</i> <i>CRC-HF Cable remote control</i> <i>WRC-HF Wireless Remote Control</i> </div>			



The Pentruder high frequency wall saws offer

Pentruder system features that perform for you every day

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



Pentruder®

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



Scan the QR-code for short operator manuals

a wide range of features for best productivity

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

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

400 Hz technology

High reliability for maximum up-time

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

Overview Pentruder high frequency wall saws

Real work tools for true professionals and everyday performance

Part number	MCCS Code	Description	Weight
Pentruder High Frequency wall saws			
10050601DIG	8-20iQ	Saw head Pentruder 8-20iQ for 15, 18, 22 or 27 kW HF motors.	25.5 kg
10050101DIG	8-20HF	Saw head Pentruder 8-20HF for 15, 18 or 22 kW HF motors.	25.5 kg
10090101DIG	CBK	Saw head Pentruder CBK for 15, 18, 22 or 27 kW HF motors	24.5 kg
10060101DIG	6-12HF	Saw head Pentruder 6-12HF for 15 or 18kW HF motors.	21 kg
10060201DIG	6-10HF	Saw head Pentruder 6-10HF for 15 or 18 kW HF motors	20 kg

Pentruder 8-20iQ / 8-20HF

Pentruder CBK

Pentruder 6-12HF

Pentruder 6-10HF

Overview - Technical data Pentruder high frequency wall saws

	8-20iQ	8-20HF	CBK	6-12HF	6-10HF
HF-motors:	15, 18, 22, 27 kW	15, 18, 22 kW	15, 18, 22, 27 kW	15, 18 kW	15, 18 kW
Max torque:	480 Nm	405 Nm	275 Nm	245 Nm	165 Nm
Gearbox:	4-speed	4-speed	1-speed	2-speed	1-speed
Electronically variable speed:	Yes	Yes	Yes	Yes	Yes
Max blade:	Ø 2000	Ø 2000	Ø 1600	Ø 1200	Ø 1200
Max cutting depth:	925 mm	925 mm	725 mm	515 mm	515 mm
Max start blade mm:	Ø 1000 mm	Ø 1000 mm	Ø 925 mm	Ø 800 mm	Ø 800 mm
Weight:	25.5 kg	25.5 kg	24.5 kg	21 kg	20 kg

Recommended start package HF wall saws

System accessories designed for easy and quick setup

HF drive system



22kW HF-motor



Pentpak 427



WRC Wireless
Remote Control



24 V Cable



400 V Cable

HF wall saw



Saw head

Blade guards



GH-SW1 Blade
guard frame for
standard guards



GS Full 800
800 mm full
blade guard



GSF Flush 800
800 mm flush
blade guard

Blade flanges



QE Blade flange assembly
QE60 - Ø 60 mm arbor



QEF60-130 -
flush Ø 60 arbor

Other accessories



Covers for digital
connectors



Toolkit



Template for positioning
of track foot



Transport trolley TYHF
for HF-wall saws

Track system



TS Track 1.15
and 2.3 m



TF2S Track foot
symmetric x 3



TSP1 Track
stop x 2



TSS300
Joint block

See page 42 for a complete list of accessories.



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

Pentruder 8-20iQ

High torque wall saw for big blades and tough aggregate

- Lower speed and higher torque compared to the 8-20HF makes the 8-20iQ perfect for very hard aggregate and/ or high concentration of steel or when cutting with very big blades.
- Can be used with any HF-motor from Pentruder. Recommended for 22 kW.
- For 800 up to 2000 mm blades.



Technical Data Pentruder 8-20iQ and 8-20HF wall saws

Specifications	8-20iQ	8-20HF
Blade info		
Saw blade diameter max.	2000 mm	2000 mm
Max cutting depth with max. Ø blade	915 mm	915 mm
Max start Ø blade	1000 mm	1000 mm
Weight		
Weight saw head	25.5 kg	25.5 kg
Weight 22 /27 kW HF-motor	18 kg	18 kg
Total weight incl. 22 kW HF-motor	43.5 kg	43.5 kg
The recommendation to use the 22 kW HF motor also for the 8-20 iQ is due to the high amperage draw of the 27 kW HF-motor compared to the 22 kW HF-motor. The 22 kW HF-motor is in most cases the best choice.		

Pentruder 8-20HF

Strong and versatile for all wall sawing jobs

- The Pentruder 8-20HF will cut with optimum power on every size blade. It will help you do the most demanding jobs very efficiently.
- Can be used with the 15, 18 or 22 kW HF-motor.
- For 800 up to 2000 mm blades.
- The 8-20 wall saws are made for durable performance. Every day.



Specifications	8-20iQ, 22 kW	8-20iQ, 27 kW	8-20HF, 22 kW
Power			
Saw blade motor	400 Hz High Frequency Motor		
Max continuous output power	22 kW	27 kW	22 kW
Min fuse	16 Amp	32 Amp	16 Amp
Max output torque	480 Nm in 1:st gear	480 Nm in 1:st gear	405 Nm in 1:st gear
Spindle speed under load			
1:st gear	310 - 460	360 - 520 rpm	350 - 510 rpm
2:nd gear	450 - 660	520 - 750 rpm	500 - 735 rpm
3:rd gear	565 - 830	660 - 940 rpm	630 - 925 rpm
4:th gear	710 - 1040	830 - 1180 rpm	790 - 1165 rpm
In each gear, the spindle speed is electronically variable with the remote control. See operator's manual for detailed charts.			

Pentruder CBK

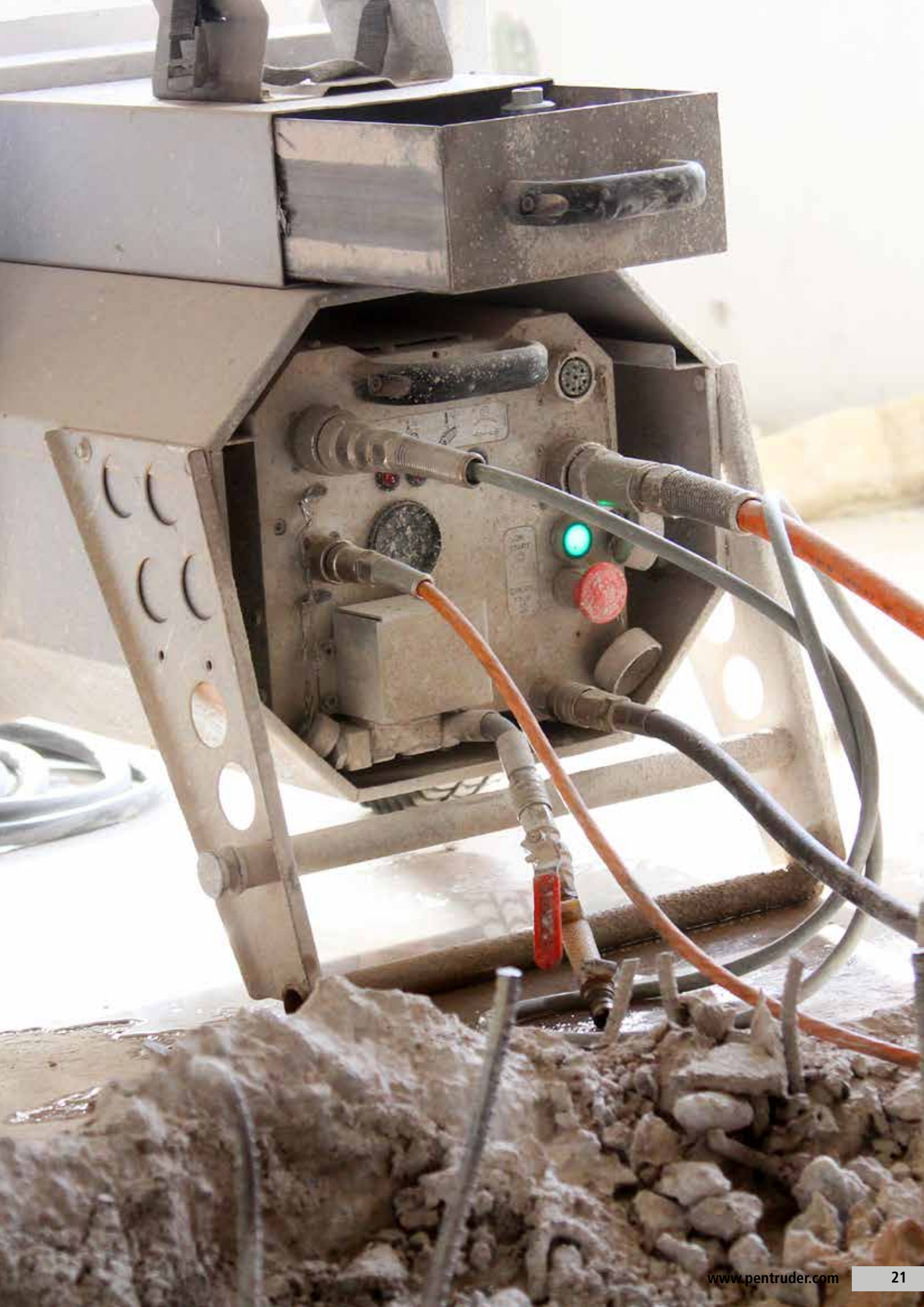
Strong and easy to use, all-round wall saw

- The Pentruder CBK offers a combination of high performance and easy handling.
- Can be used with all HF-motor from Pentruder
- The spindle speed is varied electronically with the potentiometer.
- Easily handles blades up to 1600 mm.



Technical Data Pentruder CBK wall saw

Specifications	CBK	CBK, 22 kW	
Blade info		Power	
Saw blade diameter max.	1600 mm	Saw blade motor	400 Hz High Frequency Motor
Max cutting depth with max. Ø blade	715 mm	Max continuous output power	22 kW
Max start Ø blade	925 mm	Min fuse	16 Amp
Weight		Max output torque	275 Nm
Weight saw head	24.5 kg	Spindle speed under load	600 - 996 rpm
Weight 22 /27 kW HF-motor	18 kg	In each gear, the spindle speed is electronically variable with the remote control. See operator's manual for detailed charts.	
Total weight incl. 22 kW HF-motor	42.5 kg		



Pentruder 6-12HF

Versatile and strong, medium size wall saw

- The Pentruder 6-12HF offers a combination of high performance and light weight.
- The Pentruder 6-12HF can handle blades up to 1200 mm

Thanks to the 2-speed gearbox, the Pentruder 6-12HF will work with a remarkably high torque at all spindle speeds.



Technical Data Pentruder 6-12HF and 6-10HF wall saws

Specifications	6-12HF	6-10HF
Blade info		
Saw blade diameter max.:	1200 mm	1200 mm
Max cutting depth with max. Ø blade:	515 mm	515 mm
Max start Ø blade:	800 mm	800 mm
Weight		
Weight saw head:	21 kg	20 kg
Weight 15/18 kW HF-motor:	13 / 16.5 kg	13 / 16.5 kg
Total weight including 15/18 kW HF-motor:	34 / 37.5 kg	33 / 36.5 kg

Pentruder 6-10HF

Easy to use wall saw for the majority of cutting jobs

- The Pentruder 6-10HF is a very user friendly wall saw.
- The spindle speed is varied electronically with the potentiometer. There is no mechanical gearbox.

Handles the majority of all wall sawing jobs very efficiently.



Specifications	6-12HF, 18 kW	6-10HF, 15 kW	6-10HF, 18 kW
Power			
Saw blade motor	400 Hz High Frequency Motor		
Max continuous output power	18 kW	15 kW	18 kW
Min fuse	16 Amp	16 Amp	16 Amp
Max output torque	245 Nm in 1:st gear	130 Nm	165 Nm
Spindle speed under load			
1:st gear	550 - 800 rpm	815 - 1200 rpm	815 - 1200 rpm
2:nd gear	810 - 1200 rpm		
In each gear, the spindle speed is electronically variable with the remote control. See operator's manual for detailed charts.			

Pentruder CW630 High Frequency Chain Saw

Strong and durable electrical chain saw for the professional concrete cutter

- Designed to run ICS bars, chains, and sprockets for optimum performance with cutting depths up to 63 cm.
- High quality, reliable drive motor with 9 kW output power on the saw chain.
- Easy to use indoors without emissions or hydraulic hoses.
- Runs from the Pentpak HF-power packs.
- Engineered to stand up to your toughest jobs thanks to efficient motor cooling, durable rear handle and an easy to replace drive sprocket.
- To be used with the ICS ProFORCE™ and PowerGrit® Chains



Technical Data Pentruder CW630 HF Chain Saw

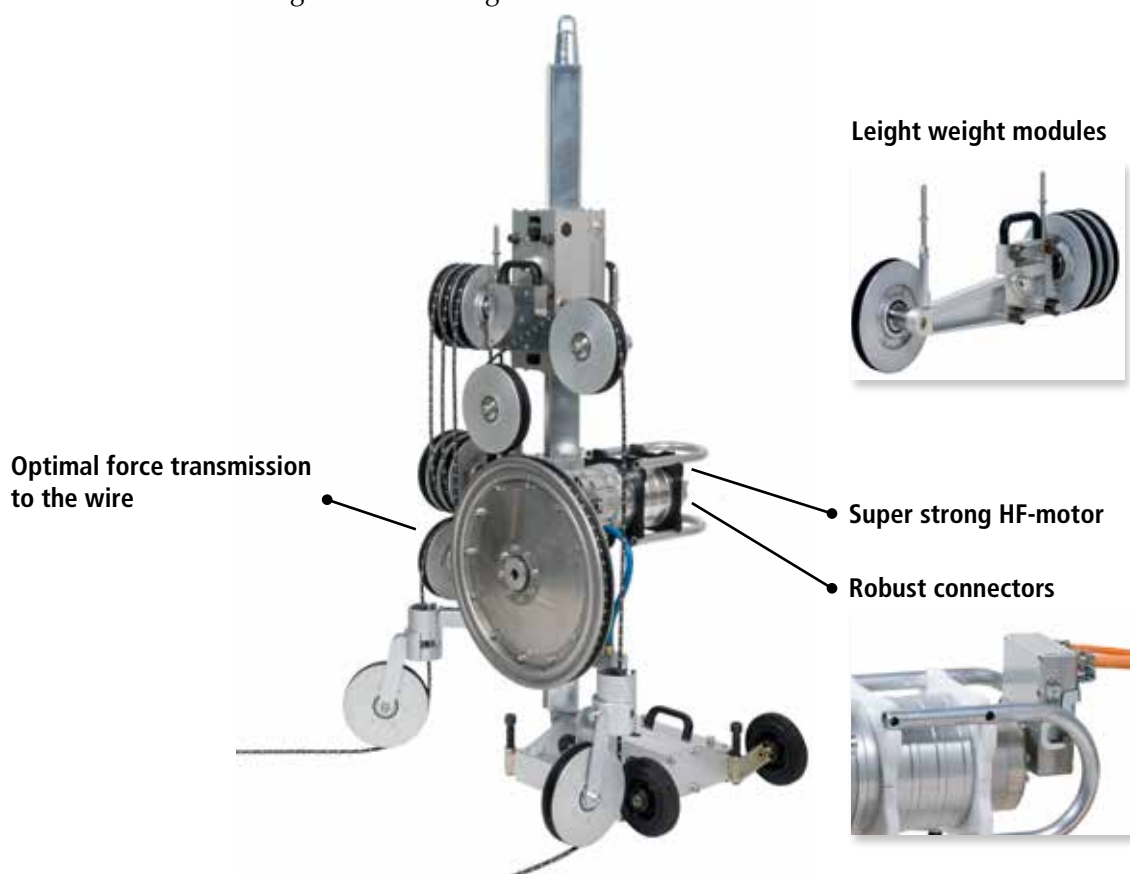
Specifications	CW630		
Weight & dimensions		Vibration, sound and noise levels	
Weight	15 kg with 38 cm bar and chain	Vibration Level:	2.4 meters/second ² ; (front handle); 4.5 meters/second ² (rear handle)
Bar length	25 cm, 38 cm, 50 cm, 63 cm	Sound Level:	94 dB @ 1 m
Motor Speed	6500 rpm	Noise Level:	103 dB @ 1 m
Powerhead Dimensions		Water	
Length	58.5 cm	Water Cooling:	Min. 4 litres of cool water/min at full power output
Height	26.5 cm	Water Pressure:	Minimum 20 psi (1.5 bar)
Width	24 cm		
Power			
Output power:	9 kW		



Pentruder 3P8 HF wire saw

Combines low weight with extraordinary performance for both small and big jobs

- Combines low weight with extra ordinary performance and is suitable for both small and very big jobs.
- Recommended to use with the 18 or 22 kW HF-motor or a hydraulic motor.
- Quick set up and easy thanks to the modular build up. Mostly a direct cut without extra satellite pulleys is possible.
- All of the wire saw modules weigh less than 25 kg.
- The start of the wire is very easy thanks to the electrical automatic feed and high power of the drive motor.
- The automatic feed makes it very easy to run the saw and it also extends the lifetime of the wire.
- Optimal force transmission thanks to Ø 500 mm main drive pulley. The wire wraps around the main drive pulley 270°, which gives superb traction also when the wire has low tension during start up.



Technical Data Pentruder 3P8 HF wire saw

Specifications			
Power		Storage	
Drive motor	400 Hz High Frequency Motor 18, 22 or 27 kW	Storage in pulleys	6.5 meters
Max continous output power	18 kW	Storage capacity	8 meters per m stroke of the carriage, Max approximately 20 m
Pulleys		Weight wire saw modules	
Main drive pulley Ø	500 mm (20")	3P8-DP-HF Drive pulley, electric:	13.9 kg
Storage pulleys Ø	198 mm O.D	3P8-UA Upper assembly:	14.9 kg
Wire		3P8-LA Lower assembly:	19.7 + 12.7 kg
Wire Ø	8-12 mm		



Recommended start package 3P8 wire saw

Same HF drive system as the wall saws for less overall investment

HF drive system



22kW HF-motor



Pentpak 427



WRC Wireless
Remote Control



24 V Cable



400 V Cable

Wire saw modules



3P8-UA Upper assembly



3P8-LA Lower assembly



3P8-DP-HF Drive
pulley, electric



Slip clutch for
HF-motor

Wire saw guard



3P8-TG Guard,
upper assembly



3P8-DPG Guard,
drive pulley



3P8-LMG Guard,
storage pulleys



3P8-SSG Guard, slack
side telescoping guard

Accessories



WSP2-90 Satellite
pulleys, universal,
2-link, 90°



WSP2-180 Satellite
pulleys, universal,
2-link, 180°



WSP1-F Satellite
pulley, single,
flush



HK-1 Hand crank



Covers for digital
connectors



Toolkit

With 70 mm column as rig

Rig 70 mm column system



*CE1-70 Carriage,
with FE1 Friction
brake*



*CE1-70-3P8
Upper carriage,
automatic feed*



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



*BEFC Base plate
with fixed swivelling
coupling*



With TS track as rig

Rig - track system



*CEG-M25
Lower carriage*



*CEG-E-3P8
Upper carriage*



TS Track 2.3m



*BTS5 Base plate
heavy duty*

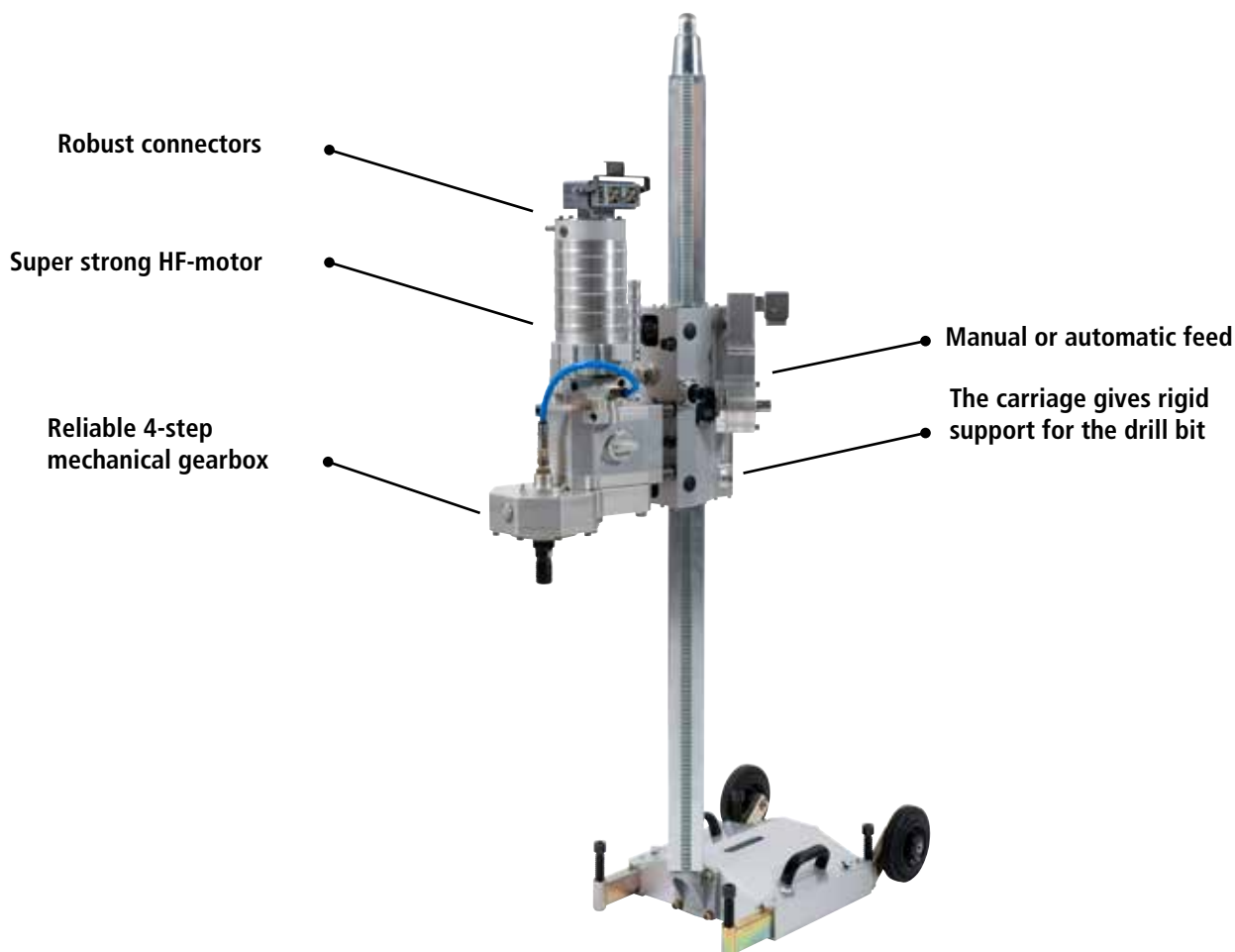


See page 42 for a complete list of accessories.

Pentruder MD1 drilling machine

Versatile and extremely powerful drill system for the professional concrete cutter

- The carriage and spindle bearings are very stable and gives perfect control over the drill bit.
- Use with the 15, 18 or 22 kW HF-motor.
- Perfect for large holes and deep drilling.
- The MG41 4-speed gearbox and ST2 or ST3 spindle unit offers high torque and unbeatable performance.



Technical Data Pentruder MD1 core drill

Specifications

Max drill bit Ø with carriage	CEG (gliding, track)	CER (rollers, track)	CE1-70 (column)
without extension adapter:	620 mm	660 mm	600 mm
One ERMD1 extension adapter:	830 mm	750 mm	790 mm
Two ERMD1 extension adapters:	1020 mm	not allowed	970 mm
Three ERMD1 extension adapters:	1210 mm	not allowed	not allowed

Weight MD1 modules

MG41 4-speed gearbox	8.2 kg
HFMR-MG41 Adapter with slip clutch, for MG41 gearbox and HF-motors	2.0 kg
ST2 / ST3 Spindle unit for MG41	7.5 kg
ERMD1 Extension Adapter for MD1	3.3 kg



Technical Data Pentrunder MD1 core drill

Spindle speed in rpm

HF-motor Spindle unit	15 kW		18 kW		22 kW	
	ST2	ST3	ST2	ST3	ST2	ST3
1st gear	0 - 80	0 - 160	0 - 55	0 - 115	0 - 55	0 - 115
2nd gear	0 - 125	0 - 260	0 - 90	0 - 180	0 - 90	0 - 180
3rd gear	0 - 215	0 - 445	0 - 150	0 - 315	0 - 150	0 - 315
4th gear	0 - 345	0 - 700	0 - 240	0 - 500	0 - 240	0 - 500

Torque in Nm

Up to 1000 Nm with ST2 spindle unit

Up to 750 Nm with ST3 spindle unit

Recommended start package MD1 core drill

Same HF drive system as the wall saws for less overall investment

HF drive system



18 kW HF-motor



Pentpak 427



WRC Wireless
Remote Control



24 V Cable



400 V Cable

MD1 drill unit



MG41 4-step gearbox



ST2 Spindle unit for MG41
with QDC Quick Disconnect
Coupling for drill bit



HFMR-MG41 Adapter
for HF-motor on MG41
gearbox



QDC drill bit adapters
QDC-1-1/4"*
QDC-84, 3 holes, PCD84
QDC-94, 6 holes, PCD94



Connector with ID-chip
for Pentpak to use correct
software. To be used with-
out autofeed

Accessories



HK-1 Hand
crank



Covers for digital
connectors



Toolkit



ERMD1
Extension adapter



The MD1 is also
available for
hydraulic drive

With 70 mm column as rig

Rig 70 mm column system



*CE1-70 Carriage,
with FE1 Friction
brake*



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



*BEFC Base plate with fixed
swivelling coupling*



*RST-CN-U Rear support
universal*



Rig - track system



*CEG-M25 Carriage,
manual feed*



TS Track 1.15 m



BTS-4 Base plate



*RST-TS1 Rear support
for TS Track*



See page 42 for a complete list of accessories.

Pentruder universal drill rig for TS track

Light-weight, yet very stable drill rig for any kind of drill motor

- Drill up to 750 mm with the CER roller carriage and over 1000 mm with the CEG carriage.
- Stepless adjustment of angle forwards and backward until 60°.
- High quality in the smallest detail makes this drill rig very durable.
- Wheel kits for easy transport.



Technical Data Pentrunder universal drill rig

Weight

BTS4 / BTS5 Base plate:	8.3 / 13.5kg
TS Track, 0.85 / 1.15 / 2 / 2.3 / 3.45 m:	7 kg/m
CER-M3-U Carriage rollers, manual feed, for use with other drill motors	4.0 kg

Line and Corner Drilling Carriage for TS Track

The most efficient way to line drill with any drill motor

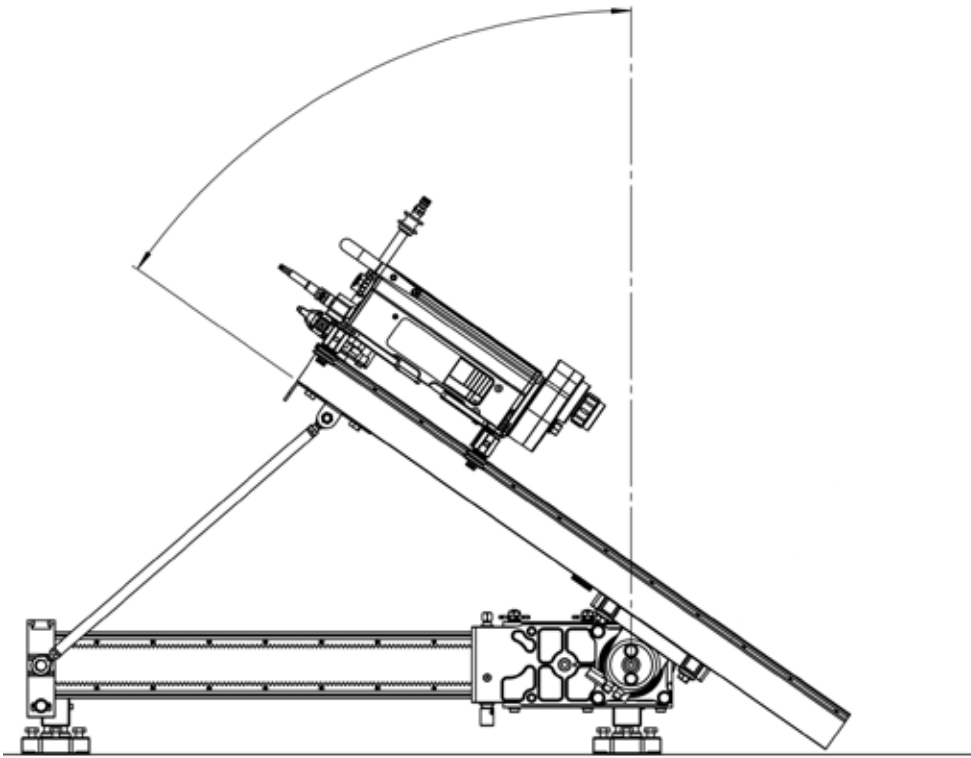
- The CEL-TS line and corner drilling carriage will make line drilling easy. For extra stability, use it with the CT-CEL Back support.
- The CEL-TS line and corner drilling carriage can be used as a simple pivoting head, providing a fixed coupling at 90° angle to the track.
- With a combination of different MCCS modules, the professional concrete cutter can solve the most challenging drilling jobs.
- Used with the MDU core drill - NTGRA® or any of the CER- and CEG-carriages.



CEG-PDT1 Pivoting Head for TS Track

Useful accessory for angle drilling or easy line drilling at an angle

- The CEG-PDT1 pivoting head is a useful accessory for the professional concrete cutter.
- Use the pivoting head to simplify set-up.
- Drill easily in any angle.
- Used with the TS-track and any of the CER- and CEG-carriages plus the MD1 core drill or a core drill of choice.
- Use track feet or base plate to fasten the track on the concrete.



Core drill modules overview

A heavy duty drill rig with just a few modules

Pivoting head and line drilling modules

			
<p>CEG-PDT1 Pivoting head incl support</p>	<p>CEL-TS Line and corner drilling carriage for TS Track</p>	<p>CT-CEL Back support for CEL-TS</p>	<p>CEL-CN Line and corner drilling carriage for TS Track and CN Column</p>

Rig TS track system modules

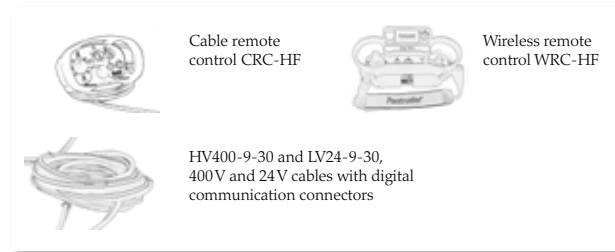
							
<p>CEG-M25 Carriage gliding, manual feed</p>	<p>CER-M3-MD1 Carriage rollers, manual feed</p>	<p>CER-M3-U Carriage rollers, manual feed, for use with other drill motors</p>	<p>ERMD1 Extension adapter</p>	<p>AE-U Adapter plate universal</p>	<p>HL-TS1 Handle with spirit-level indicators</p>	<p>HK-1 Hand crank</p>	<p>Knuckle bar 400 mm, 1/2"</p>
							
<p>TS Track, 0.85, 1.15, 1.7, 2, 2.3, 3.45 m</p>	<p>TP3 Track stop</p>	<p>RT-TS1 Rear support for TS Track</p>	<p>BTS4 Base plate</p>	<p>WT-BTS4 Wheel kit</p>	<p>BTS5 Base plate heavy duty</p>	<p>WT- BTS5-200 Wheel kit</p>	<p>WT- BTS5-300 Wheel kit</p>

Overview Pentruder Concrete Cutting System

HF-power packs

Pentpak 427, 3-phase

Remote control and cables



Electrical motors

27 kW HF

22 kW HF

18 kW HF

15 kW HF



Wall saws

Wire saw modules

Drilling modules

15 18 22 27 kW HF

Pentruder 8-20iQ

15 18 22 kW HF

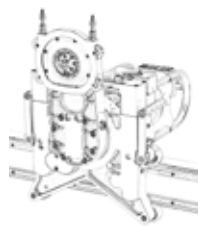
Pentruder 8-20HF

15 18 22 27 kW HF

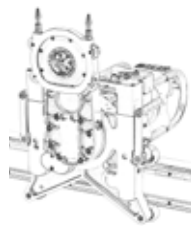
Pentruder CBK

15 18 kW HF

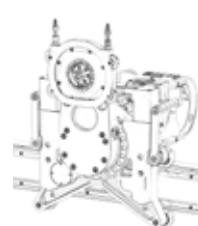
Pentruder 6-12HF



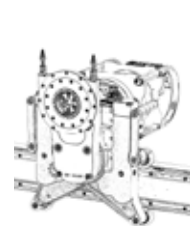
8-20iQ, Max Ø 2 m blade
Max cutting depth 925 mm



8-20HF, Max Ø 2 m blade
Max cutting depth 925 mm



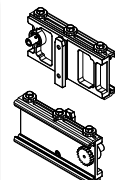
CBK, Max Ø 1.6 m blade
Max cutting depth 725 mm



6-12HF, Max Ø 1.2 m blade
Max cutting depth 515 mm



CEG-PDT1
Pivoting head



Line and corner
drilling carriage



CT-CEL
Back support for
CEL-TS

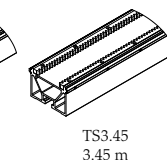
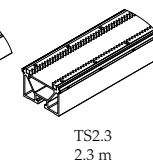
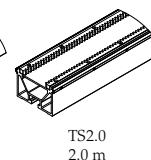
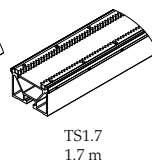
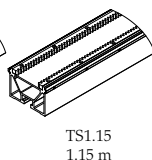
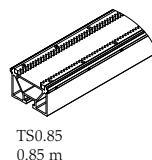
Track system for

wall sawing

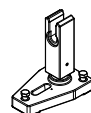
wire sawing

drilling

Single T-slot track (TS)



Track foot symmetric TF2S



TF2S
Swivelling
fork

Track foot angular TFAB



TFAB
Angle
cutting at-
tachement,
to be used
with TF2S

Base plate BTS-4

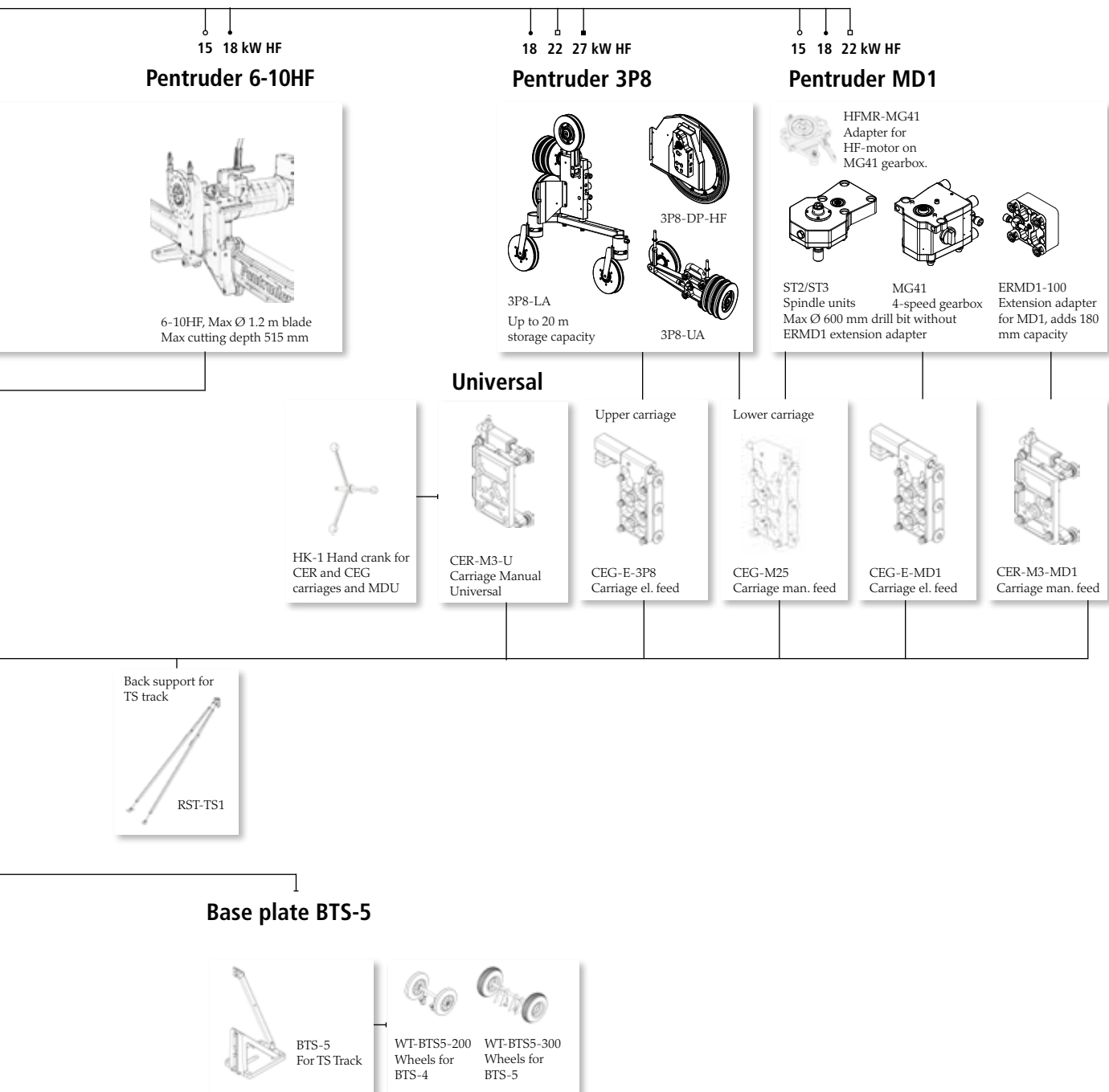


BTS-4
For TS Track



WT-BTS4
Wheels for
BTS-4

TS track system

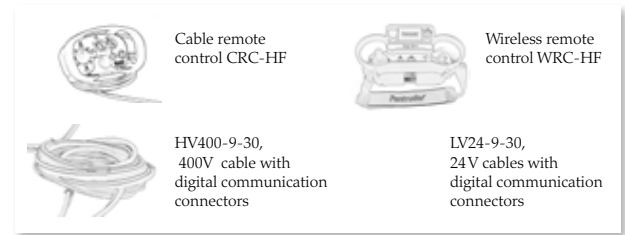
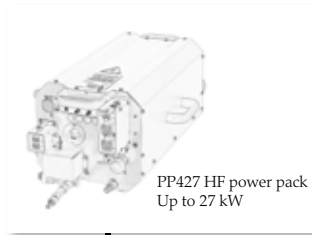


Overview Pentruder Concrete Cutting System

HF-power pack

Pentpak 427, 3-phase

Remote control and cables



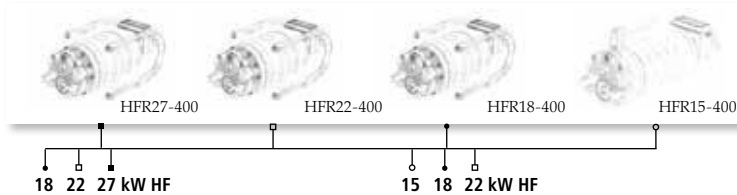
27 kW HF

22 kW HF

18 kW HF

15 kW HF

Electrical motors

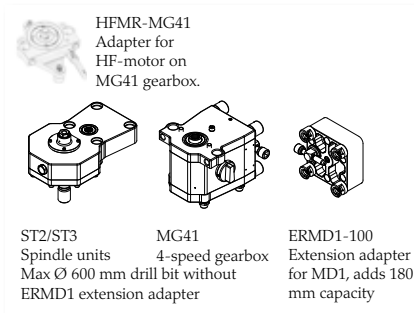
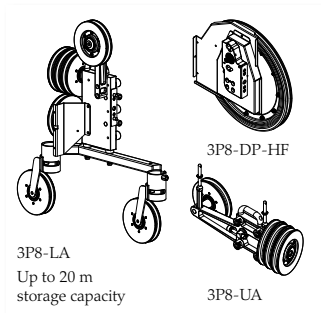


Pentruder 3P8

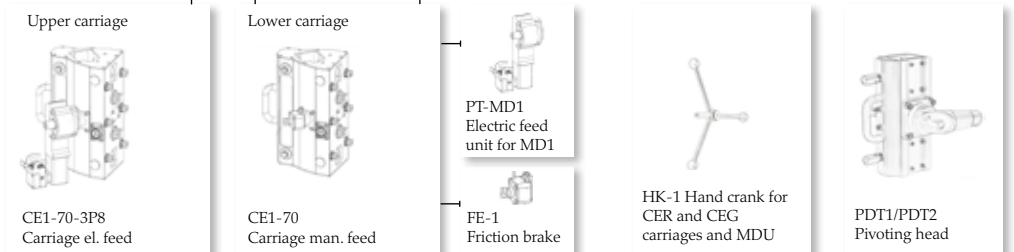
Pentruder MD1

Wire saw modules

Drilling modules



Carriages



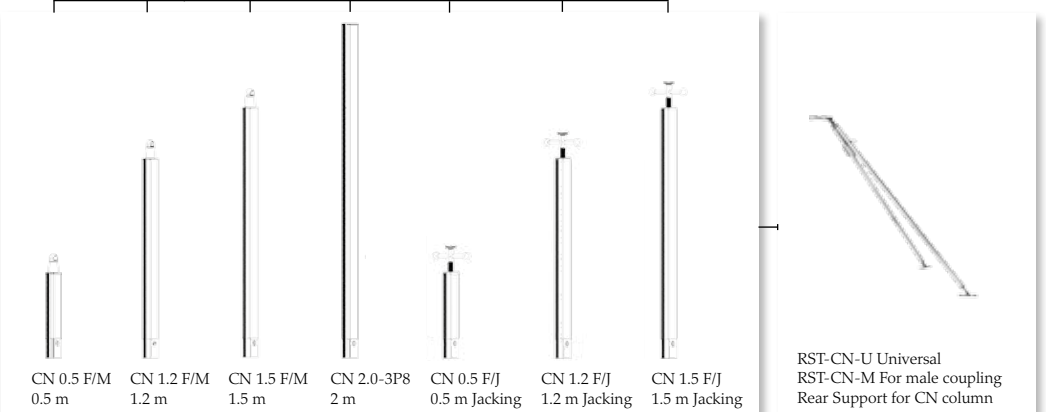
Rig system with 70 mm column for

wire sawing

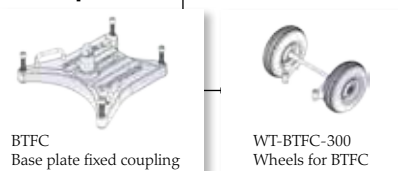
drilling

Columns

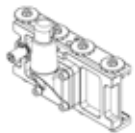
Rear support



Base plate



CN Column system



CEL-CN Line and corner
drilling carriage for TS track
and CN column



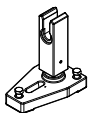
CT-CEL Back support
for CEL-CN
and CEL-TS

Single T-slot track (TS)



TS 0.85, TS1.15, TS1.7, TS2.0,
TS2.3, TS3.45
TS Track 0.85, 1.15, 1.7, 2.0, 2.3,
3.45 m lengths

Track foot TF2S



TF2S
Swivelling fork

PART NUMBER	MCCS CODE	DESCRIPTION	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8 on column	3P8 on track	MD1 on column	MD1 on track	Universal drill rig
HIGH FREQUENCY POWER PACKS												
09274001DIG	PP427	Pentpak 427, HF Power Pack, up to 27 kW, 380 – 480V, 50 – 60 HZ	X	X	X	X	X	X	X	X	X	
CABLES												
64900201	HV400-9-30	Cable 400V, 9m	X	X	X	X	X	X	X	X	X	
64900101	LV24-9-30	Cable 24V, 9m with water hose	X	X	X	X	X	X	X	X	X	
REMOTE CONTROL UNITS												
64190401	CRC-HF	Cable Remote Control, HF	X	X	X	X	X	X	X	X	X	
WRC-HF	WRC-HF	Wireless Remote Control, HF	X	X	X	X	X	X	X	X	X	
HIGH FREQUENCY MOTORS												
07154001DIG	HFR415	HF-Motor, 15 kW, 400V	X	X	X	X	X			X	X	
07184001DIG	HFR418	HF-Motor, 18 kW, 400V	X	X	X	X	X	X	X	X	X	
07224001DIG	HFR422	HF-Motor, 22 kW, 400V	X	X	X			X	X	X	X	
07274001DIG	HFR427	HF-Motor, 27 kW, 400V	X		X			X	X			
PROTECTIVE CAPS												
CAPS-HF	CAPS-HF	Kit for HF-wall saw, HF-motor and HF Pentpak	X	X	X	X	X	X	X	X	X	
Recommended caps if a cable remote is used (not included in CAPS-kit):												
64115300		Protective cap remote control connector on HF Pentpak	X	X	X	X	X	X	X	X	X	
64115700		Protective cap remote control connector on cable	X	X	X	X	X	X	X	X	X	
HF SAW HEADS												
10050601DIG	8-20iQ	Pentruder 8-20iQ, HF-saw head	X									
10050101DIG	8-20HF	Pentruder 8-20HF, HF-saw head		X								
10090101DIG	CBK	Pentruder CBK, HF-saw head			X							
10060101DIG	6-12HF	Pentruder 6-12HF, HF-saw head				X						
10060201DIG	6-10HF	Pentruder 6-10HF, HF-saw head					X					
BLADE FLANGE STANDARD												
42880101	QE60	Inner and outer blade flange, 60 mm arbor size, incl. pin screw + nut	X	X	X	X	X					
42880401	QE60-3	Inner and outer flange, 60 mm arbor size including 3x centre bolts. Use for Ø 1600 – 2000 blades	X	X	X							
BLADE FLANGES, FLUSH CUTTING												
42040101	QEF60-130	Flush cutting flange, 60 mm arbor size, 6x M8, P.C.D. 130 mm	X	X	X	X	X					
42040201	QEF60-110	Flush cutting flange, 60 mm arbor size, 6x M10, P.C.D. 110 mm	X	X	X	X	X					
42040501	QEF60-110-130	Flush cutting flange, 60 mm arbor size, 6x M10, P.C.D. 110 mm / 6x M8, P.C.D.130mm	X	X	X	X	X					
TRACK FEET												
43101401	TF2S	Track foot, (symmetric type) for TS type tracks	X	X	X	X	X					X
43100901	TFAB	Angle cutting attachment, to be bolted to TF2S	X	X	X	X	X					X
TS TYPE TRACK JOINT BLOCK												
43280101	TSS300	Joint block for TS type tracks	X	X	X	X	X		X		X	
TRACK STOP												
55070201	TP3	Trackstop TP3 cpl	X	X	X	X	X		X		X	X

PART NUMBER	MCCS CODE	DESCRIPTION	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8 on column	3P8 on track	MD1 on column	MD1 on track	Universal drill rig
TRACKS WITH T-SLOT												
49031801	TS0.85	Track, T-slot type, 0.85 m / 33"	X	X	X	X	X		X		X	
49031901	TS1.15	Track, T-slot type, 1.15 m / 45"	X	X	X	X	X		X		X	
49032001	TS1.7	Track, T-slot type, 1.7 m / 67"	X	X	X	X	X		X		X	
49032101	TS2.0	Track, T-slot type, 2.0 m / 79"	X	X	X	X	X		X		X	
49032201	TS2.3	Track, T-slot type, 2.3 m / 90.5"	X	X	X	X	X		X		X	
49032301	TS3.45	Track, T-slot type, 3.45 m / 11"	X	X	X	X	X		X		X	
BLADE GUARD HOLDERS												
43210601	GH-SW1	Frame blade guard holder for all swingtype blade guards	X	X	X	X	X					
GH-P8-20	GH-P8-20	Parallel guide for parallel blade guards and 8-20HY, 6-16HY, 8-20HF	X	X								
GH-PCBK	GH-PCBK	Parallel guide for parallel blade guards and CBK			X							
GH-P6-12	GH-P6-12	Parallel guide for parallel blade guards and 6-12HF, 6-12HY				X	X					
BLADE GUARD FULL, SWING TYPE												
11080701	GS-800	Blade Guard full, Swing type, Ø 800 mm/32"	X	X	X	X	X					
11080801	GS-1000	Blade Guard full, Swing type, Ø 1000 mm/40"	X	X	X	X	X					
11081601	GS-1100	Blade Guard full, Swing type, Ø 1100 mm/42"	X	X	X	X	X					
11080901	GS-1200	Blade Guard full, Swing type, Ø 1200 mm/48"	X	X	X	X	X					
11081701	GS-1400	Blade Guard full, Swing type, Ø 1400 mm/54"	X	X	X							
1081001	GS-1600	Blade Guard full, Swing type, Ø 1600 mm/63"	X	X	X							
BLADE GUARD FULL, SWING TYPE, ECCENTRIC LOCK												
11082001	GSE-600	Blade Guard full, Swing type, Eccentric lock, Ø 600 mm/26"	X	X	X	X	X					
11082101	GSE-800	Blade Guard full, Swing type, Eccentric lock, Ø 800 mm/32"	X	X	X	X	X					
11082201	GSE-1000	Blade Guard full, Swing type, Eccentric lock, Ø 1000 mm/40"	X	X	X	X	X					
11082301	GSE-1200	Blade Guard full, Swing type, Eccentric lock, Ø 1200 mm/48"	X	X	X	X						
11082401	GSE-1600	Blade Guard full, Swing type, Eccentric lock, Ø 1600 mm/63"	X	X	X							
11081101	GSE-2000	Blade Guard full, Swing type, Eccentric lock, Ø 2000 mm/79"	X	X								
BLADE GUARD, SWING TYPE, FLUSH												
11090601	GSF-800	Blade guard, Swing type, Flush, Ø 800 mm / 32"	X	X	X	X	X					
11090701	GSF-1000	Blade guard, Swing type, Flush, Ø 1000 mm / 40"	X	X	X	X	X					
11091001	GSF-1100	Blade guard, Swing type, Flush, Ø 1100 mm / 42"	X	X	X	X	X					
11090801	GSF-1200	Blade guard, Swing type, Flush, Ø 1200 mm / 48"	X	X	X	X	X					
11091101	GSF-1400	Blade guard, Swing type, Flush, Ø 1400 mm / 54"	X	X	X							
11090901	GSF-1600	Blade guard, Swing type, Flush, Ø 1600 mm / 63"	X	X	X							
BLADE GUARD FULL, PARALLEL, ECCENTRIC LOCK												
11052001	GPE-600	Blade guard full, Parallel, Eccentric lock, Ø 600 mm / 26"	X	X	X	X	X					
11052101	GPE-800	Blade guard full, Parallel, Eccentric lock, Ø 800 mm / 32"	X	X	X	X	X					
11052201	GPE-1000	Blade guard full, Parallel, Eccentric lock, Ø 1000 mm / 40"	X	X	X	X	X					
11052301	GPE-1200	Blade guard full, Parallel, Eccentric lock, Ø 1200 mm / 48"	X	X	X	X						
BLADE GUARD FULL, PARALLEL												
11050501	GP-600	Blade guard full, Parallel, Ø 600 mm / 26"	X	X	X	X	X					
11050601	GP-800	Blade guard full, Parallel, Ø 800 mm / 32"	X	X	X	X	X					
11050701	GP-1000	Blade guard full, Parallel, Ø 1000 mm / 40"	X	X	X	X	X					
TRANSPORT TROLLEY												
07810101	TYHF	Transport trolley for HF-saws cpl. Please specify size of HF-Motor and Saw Head	X	X	X	X	X					
07810201	TYHF	Transport trolley for HF-saws cpl. Unassembled Please specify size of HF-Motor and Saw Head	X	X	X	X	X					

PART NUMBER	MCCS CODE	DESCRIPTION	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8 on column	3P8 on track	MD1 on column	MD1 on track	Universal drill rig
BASE PLATES FOR COLUMNS WITH CONICAL COUPLING												
10400101	BE1	Base plate with front mount fixed conical coupling						X		X		
10400201	BE2	Base plate with front mount conical swivelling coupling						X		X		
BEFC	BEFC	Base plate with fixed conical coupling, swivelling						X		X		
BASE PLATES FOR TS TRACK AND ACCESSORIES												
BTS-4	BTS-4	Base plate for TS type tracks, rectangular, 220 x 320 mm							X		X	X
BTS-5	BTS-5	Base plate for TS type tracks, rectangular, 380 x 290 mm Recommended for wire sawing and for drilling of bigger or deeper holes.							X		X	X
HL-TS1	HL-TS1	Handle with levels									X	X
REAR SUPPORTS												
RST-TS1	RST-TS1	Rear support for TS Track							X		X	X
RST-CN-U	RST-CN-U	Rear support for 70 mm square column universal						X		X		
RST-CN-M	RST-CN-M	Rear support for 70 mm square column male coupling						X		X		
WHEELS												
WT-BTS4	WT-BTS4	Wheel kit for BTS-4 base plate							X		X	
WT-BTS5-200	WT-BTS5-200	Wheel kit, BTS-5, Ø200							X		X	
WT-BTS5-300	WT-BTS5-300	Wheel kit, BTS-5, Ø300							X		X	
PIVOTING HEAD												
CEG-PDT1	CEG-PDT1	Pivoting head for TS track, pivots 360°, one feed gear							X		X	
LINE AND CORNER DRILLING CARRIAGE												
CEL-TS	CEL-TS	Carriage for line and corner drilling with TS type tracks									X	X
CT-CEL	CT-CEL	Back support for CEL-TS cpl									X	X
GLIDING CARRIAGES MCCS, ELECTRIC FEED												
CEG-E-3P8	CEG-E-3P8	Carriage, gliding, 3P8 wire saw upper carriage, electric feed, total gear ratio 5000:1. Max feed speed 0.4 m/min							X			
CEG-E-MD1	CEG-E-MD1	Carriage, gliding, MD1 drilling carriage or lower carriage 3P8 wire saw, electric feed, total gear ratio 2500:1. Max feed speed 0.8 m/min							X		X	
GLIDING CARRIAGES MCCS, HYDRAULIC FEED												
CEG-HY20	CEG-HY20	Carriage, gliding, MD1 drilling carriage, hydraulic feed, use with PP15, PP20 or PP25. Max feed speed 1.7 m/min.									X	
CEG-HY32	CEG-HY32	Carriage, gliding, 3P8 wire saw or MD1 drilling carriage, hydraulic feed, use with PP15, PP20 or PP25. Max carriage speed 1.0 m/min.							X		X	X
GLIDING CARRIAGES MCCS, MANUAL FEED												
CEG-M25	CEG-M25	Carriage, gliding, MD1 drilling carriage or lower carriage 3P8, manual, gear ratio 25:1							X		X	X
ROLLER CARRIAGES MCCS												
CER-M3-MD1	CER-M3-MD1	Carriage, roller type for drilling, MD1 QDC coupling, manual feed, gear ratio 3:1									X	
CER-M3-U	CER-M3-U	Carriage, roller type for drilling, Universal, manual feed, gear ratio 3:1										X
HK-1	HK-1	Hand crank for CEG and CEG carriages and MDU Core Drill									X	X

PART NUMBER	MCCS CODE	DESCRIPTION	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8 on column	3P8 on track	MD1 on column	MD1 on track	Universal drill rig
MODULES MD1 DRILL SYSTEM												
10801001	MG41	MG41 Heavy Duty 4-speed Gearbox for both HFR-motors and Hydraulic Motors								X	X	
HFMR-MG41	HFMR-MG41	Adapter with slip clutch, for HFR-motors on MG41 gearbox								X	X	
64920101		Connector with ID-chip for MD1 70mm (manual feed only)								X		
64909101		Connector with chip for MD1 man. CER/CEG (manual feed only)									X	
10701001	ST2-1-1/4	Heavy Duty Spindle Unit ST2 for MG41 for up to Ø 1000 (1250) mm drill bits Spindle thread 1-1/4" - 7 UNC								X	X	
10703001	ST3-1-1/4	Heavy Duty Spindle Unit ST3 for MG41 for up to Ø 650 mm drill bits. Spindle thread 1-1/4" - 7 UNC								X	X	
10711001	ST2-QDC	Heavy Duty Spindle Unit ST2 for MG41 for up to Ø 1000 mm drill bits (max Ø 1250 with twin column drill rig) Spindle with Quick Disconnect Coupling.								X	X	
10711101	ST3-QDC	Heavy Duty Spindle Unit ST3 for MG41 for up to Ø 650 mm drill bits. Spindle with Quick Disconnect Coupling.								X	X	
56070101	ERMD1	Heavy Duty Extension Adapter for MD1 type Quick Disconnect Coupling. Extends capacity by Ø 200 per adapter. Can be put on top of each other.								X	X	
34420100	QDC - 1-1/4	Spindle adapter QDC - 1-1/4"-7 UNC								X	X	
34421100	QDC-84	Spindle adapter QDC - 84 mm P.C. D								X	X	
34420200	QDC-94	Spindle adapter QDC - 94 mm P.C.D								X	X	
HYDRAULIC MOTORS FOR 3P8 WIRE SAW												
HR16R-3P8	HR16R-3P8	Hydraulic motor, reversible, 16 cc. For 3P8. With PP15/PP20 wire speed = 22 m/s @ 42 Liter / min.						X	X			
HR25R-3P8	HR25R-3P8	Hydraulic motor, reversible, 25 cc. For 3P8. With PP15/PP20 wire speed = 15 m/s @ 42 Liter / min.						X	X			
HYDRAULIC MOTORS FOR MD1 DRILL SYSTEM												
HR16R-MD1	HR16R-MD1	Hydraulic motor, reversible, 16 cc. For MG41 gearbox with PP15/PP20. (42 Liter / min)								X	X	
HR25R-MD1	HR25R-MD1	Hydraulic motor, reversible, 25 cc. For MG41 gearbox with PP15/PP20. (42 Liter / min)								X	X	
WIRE SAW MODULES												
10910201	3P8-LA	3P8 Lower assembly						X	X			
10910101	3P8-UA	3P8 Upper assembly						X	X			
10900101	3P8-DP-HF	3P8 Drive pulley, Electric						X	X			
57253101		Slip clutch unit 3P8 cpl - Fitted between drive pulley and HF-motor. Recommended to absorb chock-loads from jamming of wire.						X	X			
WIRE SAW GUARDS, 3P8												
11200301	3P8-LMG	3P8 Telescoping magazine guard						X	X			
11200501	3P8-SSG	3P8 Slack side telescoping guard						X	X			
11200401	3P8-TG	3P8 Top guard						X	X			
11200201	3P8-DPG	3P8 Drive pulley guard						X	X			
ACCESSORIES												
07710101	WSP2-90	Satellite pulleys, universal, 2-link, 90°						X	X			
07710201	WSP2-180	Satellite pulleys, universal, 2-link, 180°						X	X			
07720101	WSP1-F	Satellite pulley, single, flush cpl						X	X			
378107202108		Drive belt for 3P8						X	X			
45068801		Pulley 3P8 Ø 200 complete						X	X			

PART NUMBER	MCCS CODE	DESCRIPTION	8-20iQ	8-20HF	CBK	6-12HF	6-10HF	3P8 on column	3P8 on track	MD1 on column	MD1 on track	Universal drill rig
70X70 MM COLUMNS FOR WIRE SAWING AND DRILLING												
10210501	CN 0.5 F/M-70	Column CN 0.5 F/M - 70 steel cpl (with male and female coupling, incl. one ET70 eccentric bolt.						X		X		
10211201	CN 1.2 F/M-70	Column CN 1.2 F/M - 70 steel cpl (with male and female coupling), incl. one ET70 eccentric bolt.						X		X		
10211501	CN 1.5 F/M-70	Column CN 1.5 F/M - 70 steel cpl, incl. one ET70 eccentric bolt.						X		X		
10222000	CN 2.0-3P8	Column, Steel 2.0m for 3P8, incl. one ET70 eccentric bolt.						X		X		
10220501	CN 0.5 F/J-70	Column CN 0.5 F/J - 70 steel cpl, incl. one ET70 eccentric bolt.						X		X		
10221201	CN 1.2 F/J-70	Column CN 1.2 F/J - 70 steel cpl, incl. one ET70 eccentric bolt.						X		X		
10221501	CN 1.5 F/J-70	Column CN 1.5 F/J - 70 steel cpl, incl. one ET70 eccentric bolt.						X		X		
ECCENTRIC BOLT												
34080500	ET70	Eccentric bolt for TTFF and JTFF/JTFM tracks						X		X		
CARRIAGE FOR DRILLING AND WIRE SAWING - 70 MM SQUARE COLUMN SYSTEM												
10501001	CE1-70	Carriage CE1 for 70 mm columns. MD1 core drill carriage and 3P8 wire saw lower carriage. Use with PT electrical feed unit or FE1 friction brake.						X		X		
10501201	CE1-70-3P8	Carriage CE1 for 70 mm column. 3P8 wire saw upper carriage						X		X		
57520301	FE1	Friction brake for CE1-70 carriage when used without electrical feed unit.						X		X		
FEED UNITS - 70 MM SQUARE COLUMN SYSTEM												
10541001	PT-HY32	Hydraulic feed unit for CE1-70						X	X	X		
10550101	PT-3P8	Electric feed unit for CE1-70 and 3P8 wire saw (100:1) (upper carriage).						X				
10550201	PT-MD1	Electric feed unit MD1 core drill (46:1) for CE1-70.								X		
PIVOTING HEAD - 70 MM SQUARE COLUMN SYSTEM												
10601001	PD1	Pivoting Head PD1, fixed coupling, for 70 mm columns						X		X		
10601101	PD2	Pivoting head PD2 adjustable, for 70 mm columns						X		X		
ADAPTERS												
56070101	ERMD1	Heavy Duty Extension Adapter for MD1 type Quick Disconnect Coupling.								X		X

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