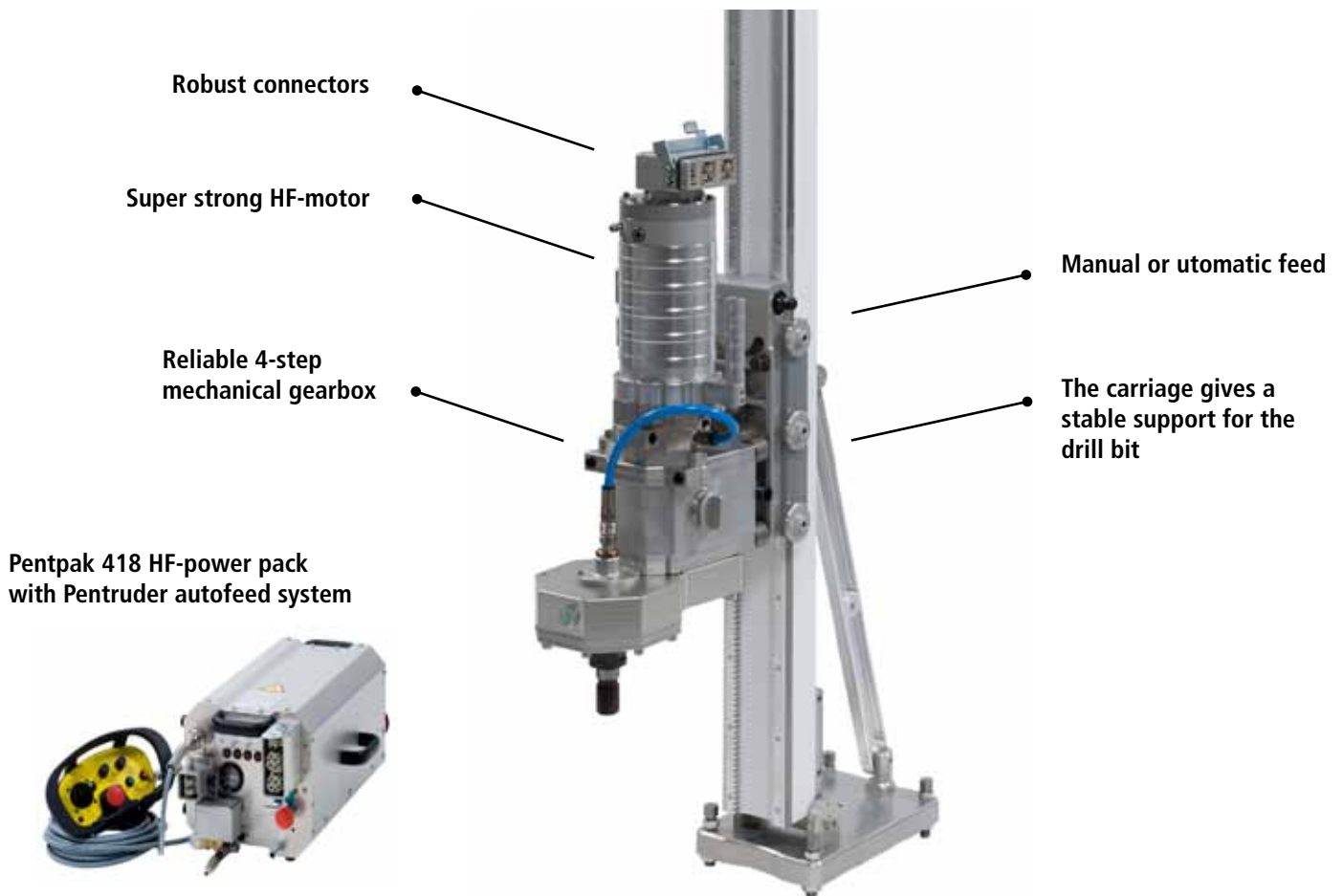


# Pentruder®

## Pentruder MD1 HF-drilling machine



### High performance - Reliability - Easy handling

- The Pentruder MD1 drill system is a versatile and very powerful drilling system.
- Recommended to use with the 15, 18 or 22 kW HF-motor or a hydraulic motor.
- Choose between the MCCS-system with the saw track or the 70 mm column system as drill rig.
- The set up is quick and easy thanks to clever Quick Disconnect Couplings.
- It is easy to drill in any angle with the pivoting head.
- The carriage is very stable and gives perfect control over the drill bit.
- The MG41 4-speed gearbox is built to last. Together with a spindle unit it will offer a high torque and unbeatable performance.

# Tecnichal data

## Pentrunder MD1 HF-Drilling Machine

### Power

Drive motor: 400 Hz High Frequency Motor,  
15, 18 or 22 kW  
(for hydraulic drive, see other product sheet)

### Drill bit:

Max Ø drill bit with:	<b>Track (MCCS)</b>	<b>70 mm Column</b>
Spindle unit ST2/ST3 (w/o ERMD1):	630 mm	600 mm
Spindle unit ST2 (1 x ERMD1):	820 mm	790 mm
Spindle unit ST2 (2 x ERMD1):	1010 mm	980 mm
Spindle unit ST2 (3 x ERMD1):	1200 mm	1170 mm

### Spindle rpm:

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

## Drill rig

### Rig for MD1 Drilling Machine with saw track (MCCS)

BTS3/BTS4 Base plate: 5.8 / 6.6 kg, 220 x 320 mm  
 TS Track:  
 0.85 / 1.15 / 2 / 2.3 / 3.45 m: 6.95 kg/m  
 TSS300 Joint block, TSP1 Track stop 2.3 kg / 0.7 kg  
 Alt. 1: CER Carriage roller type,  
 manual feed, reduction 3:1 or 6:1 4.4 kg  
 Alt. 2: CEG-E-MD1 Carriage gliding, auto feed  
 max 0.9 m/min 8.1 kg

### Rig for MD1 Drilling Machine with 70 mm column system:

Alt. 1: Base plate, BE1 fixed/BE2 adjustable  
 quick disconnect coupling: 18 kg  
 Alt. 2: Base plate BETC w top mount fixed  
 quick disconnect coupling: 14.8 kg  
 CN Columns 0.5 / 1.2 / 1.5 / 2 m: 6.8 / 12.1 / 14.5 / 14.5\* kg  
 \* The 2 meter column is only extendable at the bottom.  
 CE1 Carriage for 70 mm columns: 4.0 kg  
 PT-MD1 Electric feed unit MD1 (46:1):9.5 kg



## Pentpak 418 HF-power pack

Input Voltage: 380-480 V  
 Input frequency: 50 - 60 Hz  
 Minimum fuse:  
 (the "demanded" power output might need  
 to be reduced on the remote control.) 16 Amp  
 Recommended fuse: 32 Amp  
 Current draw at max. output: 40 Amp  
 Rec. generator capacity: 45 kVA  
 Weight: 26 kg

Tractive AB reserves the right to change technical data without previous notice.

## Modules

### Modules MD1:

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  
 (quick disconnect coupling optional): 7.3 / 7.5 kg  
 ERMD1 Extension Adapter for MD1  
 (Extends capacity by Ø 190 mm  
 per adapter): 3.3 kg



## System

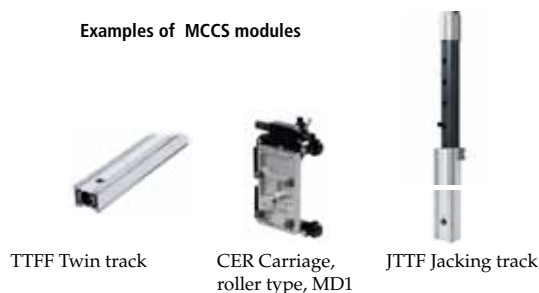
For drilling we recommend the 15 or 18 kW HF-motor and Pentpak 418 but the 22 kW HF-motor and Pentpak 422 or 427 are also suitable. Thanks to our digital communication system it is possible to use the same HF-motor, Pentpak 418 (or Pentpak 422 or Pentpak 427), cables and remote controls not only for drilling but also for wall sawing and wire sawing.

Pentrunder MCCS is a truly modular system based on the wall saw track.  
 The track is used both for the drill rig and for the wire saw rig, as well as for other more special set ups.

As an option the drill rig can also be built with the 70 mm column system, see Drill rig.

Be sure to check out the other modules in the **Pentrunder Modular Concrete Cutting System!**

### Examples of MCCS modules



TTF Twin track

CER Carriage,  
roller type, MD1

JTTF Jacking track

# Pentrunder<sup>®</sup>

by TRACTIVE

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