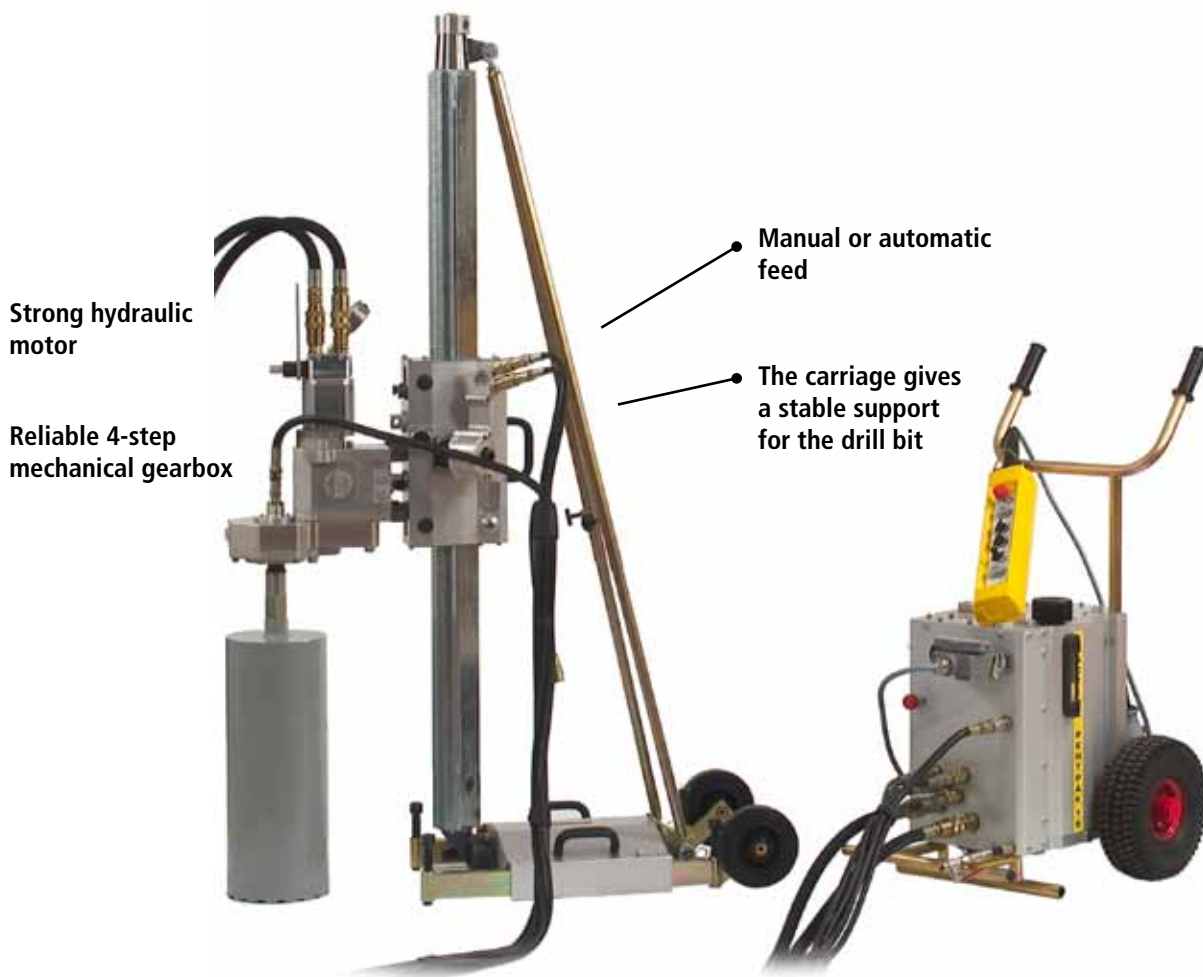


Pentruder[®]

Pentruder MD1 Hydraulic drilling machine



High performance - Reliability - Easy handling

- The Pentrunder MD1 drill system is a versatile and very powerful drilling system.
- Recommended to use with the 15, 20 or 25 hydraulic power pack and 16 or 25 cc 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

Pentruder MD1 Hydraulic drilling machine

Drill bit:

| Max Ø drill bit with: | Track (MCCS) 70 mm Column | |
|-----------------------------------|---------------------------|---------|
| 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 with spindle units ST2 and ST3 :

| Pentpak 25 | 1:st gear | 2:nd gear | 3:rd gear | 4:th gear |
|--------------------|-----------|-----------|-----------|-----------|
| 25 cc motor + ST2: | 120 rpm | 195 rpm | 335 rpm | 530 rpm |
| 25 cc motor + ST3: | 250 rpm | 395 rpm | 680 rpm | 1080 rpm |

| Pentpak 20/15 | 1:st gear | 2:nd gear | 3:rd gear | 4:th gear |
|--------------------|-----------|-----------|-----------|-----------|
| 25 cc motor + ST2: | 65 rpm | 100 rpm | 175 rpm | 280 rpm |
| 25 cc motor + ST3: | 130 rpm | 210 rpm | 360 rpm | 570 rpm |
| 16 cc motor + ST2: | 100 rpm | 160 rpm | 275 rpm | 435 rpm |
| 16 cc motor + ST3: | 205 rpm | 325 rpm | 560 rpm | 890 rpm |

Torque with spindle units ST2 och ST3 :

| Pentpak 25 | 1:st gear | 2:nd gear | 3:rd gear | 4:th gear |
|--------------------|-----------|-----------|-----------|-----------|
| 25 cc motor + ST2: | 1010 Nm | 630 Nm | 370 Nm | 230 Nm |
| 25 cc motor + ST3: | 490 Nm | 310 Nm | 180 Nm | 115 Nm |

| Pentpak 20/15 | 1:st gear | 2:nd gear | 3:rd gear | 4:th gear |
|--------------------|-----------|-----------|-----------|-----------|
| 25 cc motor + ST2: | 1010 Nm | 630 Nm | 370 Nm | 230 Nm |
| 25 cc motor + ST3: | 490 Nm | 310 Nm | 180 Nm | 115 Nm |
| 16 cc motor + ST2: | 865 Nm | 540 Nm | 315 Nm | 200 Nm |
| 16 cc motor + ST3: | 420 Nm | 265 Nm | 155 Nm | 100 Nm |

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-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: BE1 Base plate fixed/BE2 adjustable quick disconnect coupling: | 18 kg |
| Alt. 2: BETC Base plate 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 | 9.5 kg |
| PT-HY12.5/20 Hydraulic feed unit for CE1:4.0 kg | |



Pentpak 15 / 20 / 25 Hydraulic power pack

| | |
|-------------------|------------------|
| Pentpak 15 | 42 L/min@175 bar |
| Pentpak 20 | 42 L/min@200 bar |
| Pentpak 25 | 80 L/min@140 bar |
| Input Voltage: | 400 V |
| Input frequency: | 50 Hz |
| Minimum fuse: | 16 / 25 / 32 Amp |
| Recommended fuse: | 32 / 32 / 63 Amp |
| Weight: | 26 kg |

Modules MD1

| | |
|---|--------------|
| MG41 4-speed gearbox: | 8.2 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 |



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

System

Pentruder MD1 hydraulic drill system can be driven by a 16 or 25 cc hydraulic motor. Together with the MG41 gearbox and a ST2 or ST3 spindle unit and one of the hydraulic power packs Pentpak 15, 20 eller 25, up to 1200 mm big holes can be drilled easily and efficiently.

Pentruder 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 **Pentruder Modular Concrete Cutting System!**

Examples of MCCS modules



TTF Twin track

CER Carriage, roller type, MD1

JTTF Jacking track

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