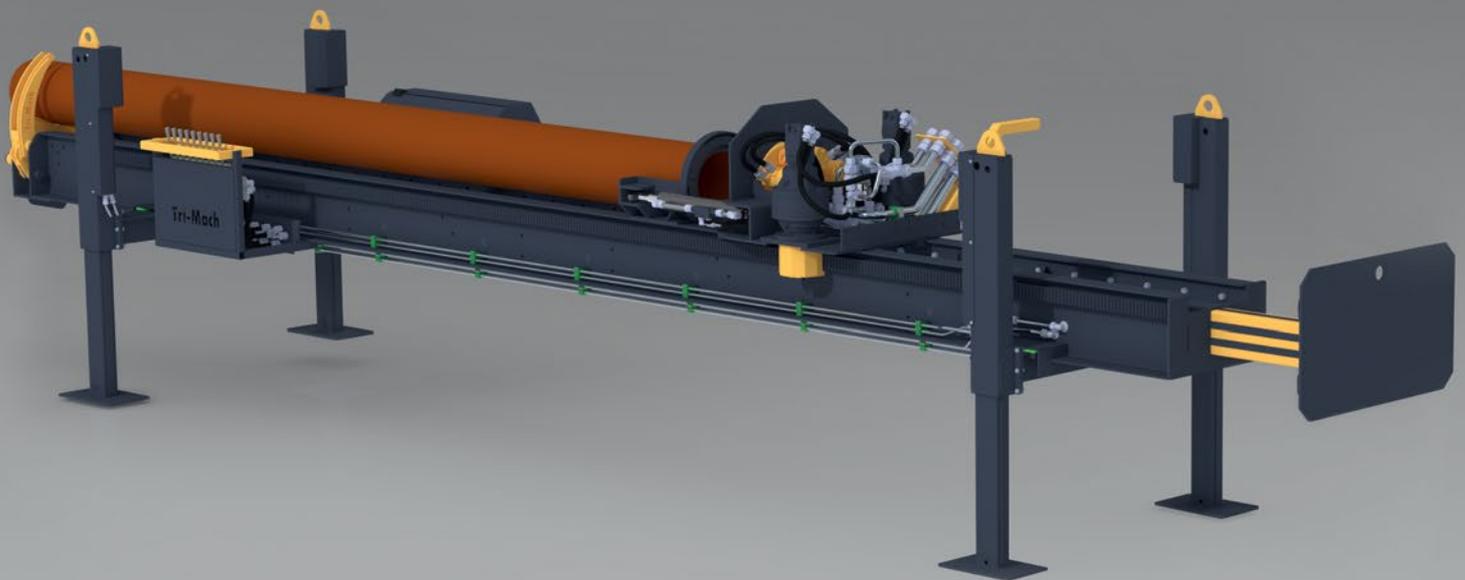




VP-400

HORIZONTAL DRILLING RIG



**TOUGHEST
DTH DRILLING
TOOLS**

VP-400 HORIZONTAL DRILLING RIG



HORIZONTAL DTH DRILLING IN DEMANDING SOIL CONDITIONS

Tri-Mach's horizontal DTH drilling rigs, manufactured in Finland, work in all soil types ensuring stable and reliable trenchless DTH casing advancement even for large diameter drilled casings. The method is fast, cost-effective, and particularly strong in rocky and non-homogeneous soils, offering reliable progress even through boulderous and quarry areas.

FIVE MOST IMPORTANT POINTS ABOUT DTH HORIZONTAL DRILLING AND EQUIPMENT:

WORKS IN ALL SOIL TYPES

Particularly effective in hard and rocky soils and in tough rock drilling.

LONG DRILLING DISTANCES

Enables horizontal crossings of up to approximately 150 meters.

EVEN LARGE DIAMETERS

Also suitable for large crossings (140–1524 mm).

FAST AND COST-EFFECTIVE WORKING METHOD

Easy site setup and significant savings in excavation costs.

SUITABLE FOR CRITICAL CROSSINGS WITHOUT TRAFFIC DISRUPTION

Suitable, for example, for road and railway crossings for pipes and cables.



TOUGHEST DTH DRILLING TOOLS

Designed and manufactured in Finland by Tri-Mach Engineering Oy. Tri-Mach has nearly 30 years of experience in the design and manufacture of DTH Drilling Tools.

TECHNICAL DATA

MAXIMUM PIPE DIAMETER = 406 MM

DIMENSIONS

Weight = 3000 kg
Length = 7900 mm
Width = 1700 mm
Minimum height = 1100 mm
Support leg stroke = 700 mm

FEED

Feed force continuous/intermittent = 180 / 210 kN
(Adjustable via planetary gear ratio)

Feed speed = 16 m/min
(Adjustable via planetary gear ratio)

Rear support, hydraulic
Remote control, radio control
Scissors, interchangeable pipe diameter

Rear support/guide for drilled pipe, hydraulic
- Easily interchangeable for different pipe diameters

Rotary gear TRIMACH PK-1200
- Torque = max. 12 kNm
- Rotational speed = max. 57 r/min
- Internal air swivel

OPTIONS

- Control Center taken out from the rig (all controls removed from rig and connection only with hose)
- Detachable rear support
- Main functions or all functions controlled by radio

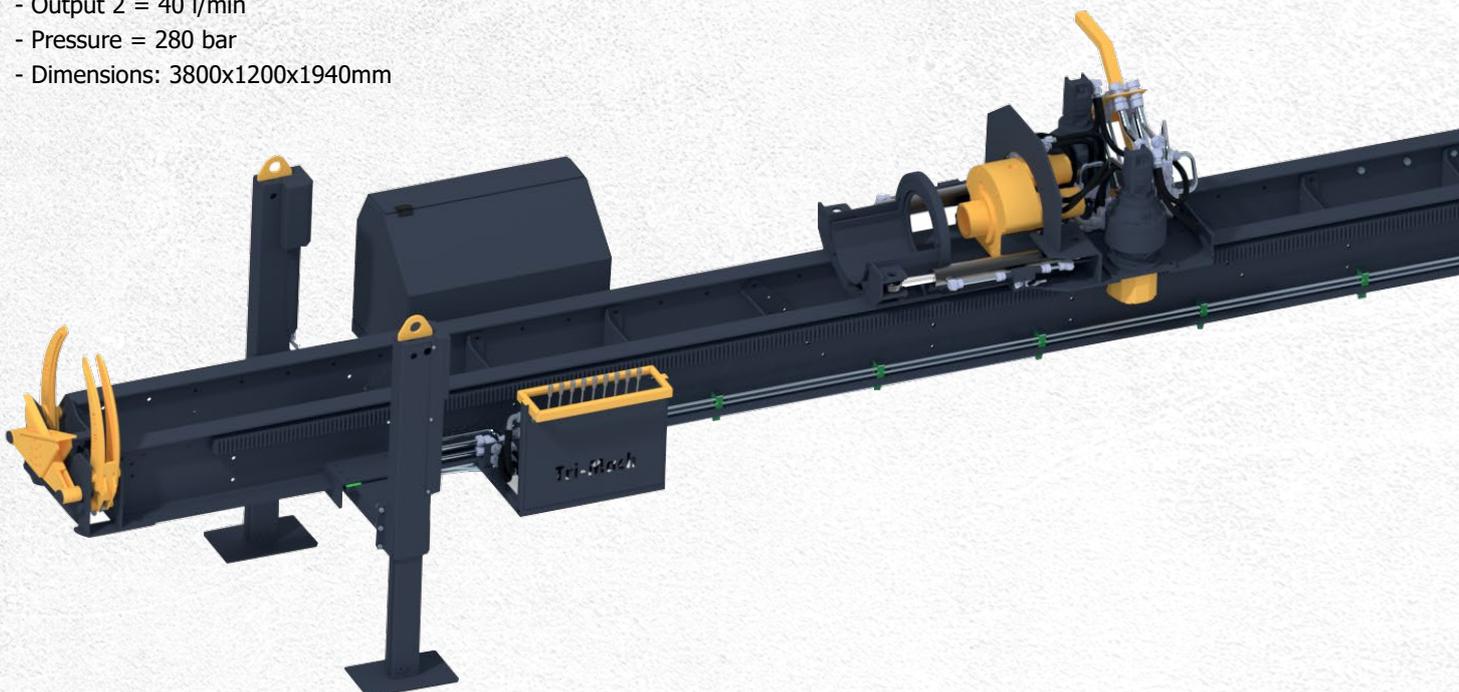
POWER UNIT

- Iveco NEF67 TE2A diesel engine
- Displacement 6.7 L
- Power = 195 (215) kW
- Specific consumption
- 25.6 l/h (50% load)
- 35.3 l/h (80% load)
- 44.0 l/h (100% load)
- Pump 1 = 130 cc (variable displacement / LS)
- Pump 2 = 25 cc
- Output 1 = 234 l/min
- Output 2 = 40 l/min
- Pressure = 280 bar
- Dimensions: 3800x1200x1940mm

OPTIONS

Generator integrated into PowerPack:

- Dynaset HG26G-E400SS23-100-K
- 26kVA, 37.5A / 400V 3-phase, 50Hz
- Without electrical center
- Oil flow 106 - 130 l/min @ 230 bar
- Integrated into PowerPack



WE ALSO DESIGN AND MANUFACTURE DRILLING TOOLS FOR HORIZONTAL DTH DRILLING.

- › **DTH BITS AND PILOT BITS**
- › **DTH ROCK BITS AND HOLE OPENERS**
- › **DTH HAMMERS**
- › **DTH DRILLRODS (API + BECO + HEX)**
- › **HORIZONTAL DTH DRILLING BITS AND PILOT BITS**
- › **AUGER RODS FOR HORIZONTAL DTH DRILLING**
- › **DTH HAMMER OILS**
- › **DTH BREAKOUT BENCHES**
- › **DTH CONSULTATION AND EXPERT ASSISTANCE**
- › **HORIZONTAL DTH DRILLING RIGS**



TRI-MACH NORDIC OY

Tampereentie 495, 33880 Lempäälä, Finland
www.trimach-drilltools.com