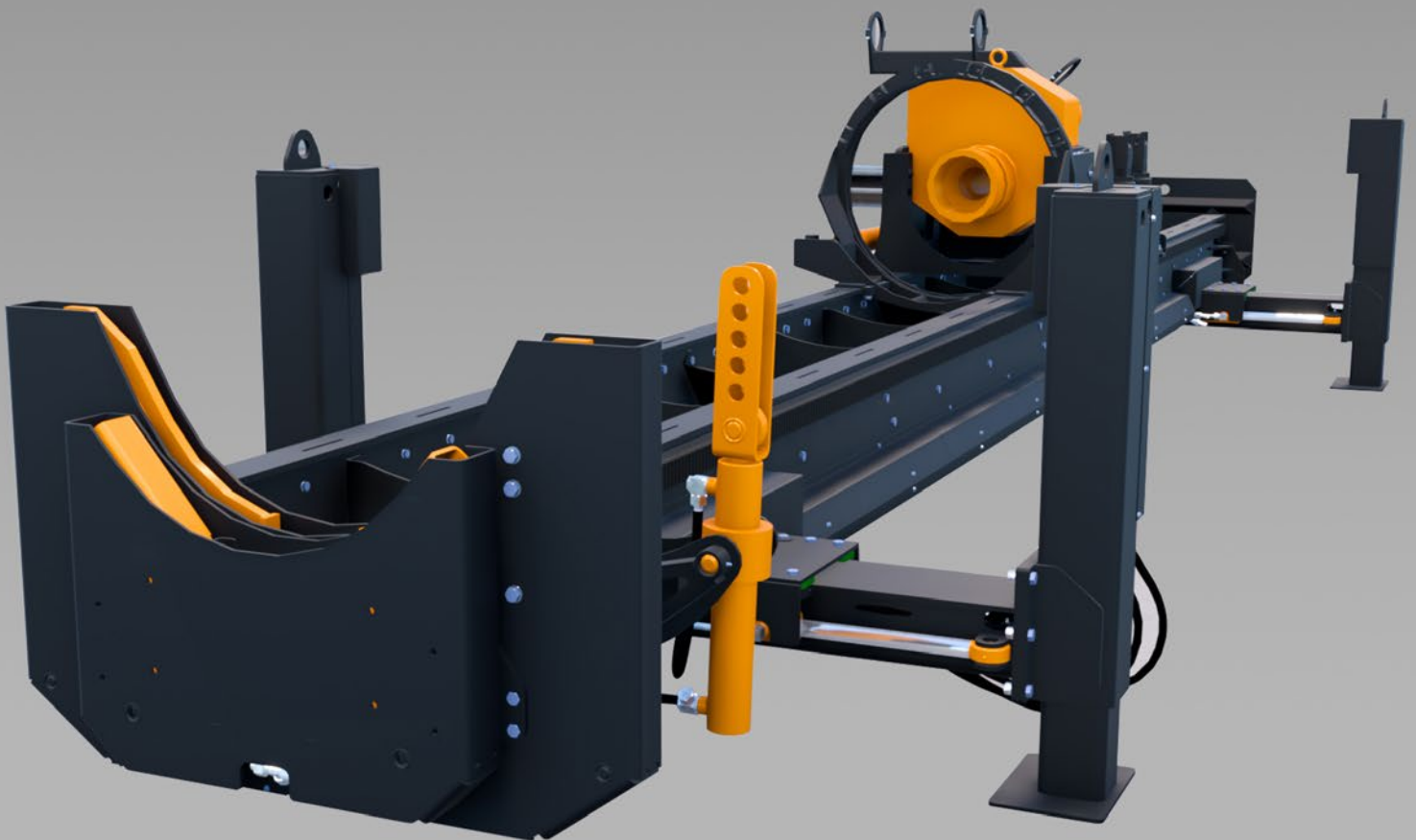




VP-800

HORIZONTAL DTH DRILLING RIG



**TOUGHEST
DTH DRILLING
TOOLS**

HORIZONTAL DTH DRILLING RIG VP-800

TRI-MACH'S HZ DTH DRILLING RIG IS A HEAVY-DUTY HORIZONTAL DRILLING SYSTEM ENGINEERED FOR DEMANDING GROUND CONDITIONS. DESIGNED AND MANUFACTURED IN FINLAND, IT DELIVERS HIGH TORQUE, LONG BORE CAPABILITY, AND RELIABLE PIPE INSTALLATION IN ROCK, MIXED FORMATIONS, AND CHALLENGING INFRASTRUCTURE CROSSINGS WITHOUT SURFACE DISRUPTION.



- › **Faster rock drilling progress**
- › **Lower total project costs**
- › **Reliable performance in rock**

BENEFITS OF THE TRI-MACH VP-800 HORIZONTAL DTH DRILLING RIG

Ground versatility: Designed to operate in all soil types, maintaining performance across varying subsurface conditions.

Rock and heterogeneous ground performance: Particularly effective in hard, rocky and heterogeneous ground formations, ensuring strong and consistent drilling capability.

Reliable advancement in difficult formations: Provides assured progress through boulder fields and rock piles, maintaining dependable forward advancement.

Long horizontal bore capacity: Enables horizontal crossings up to approximately 150 meters, allowing extended trenchless installations.

Large diameter capability: Suitable for large-diameter crossings, supporting substantial casing sizes while maintaining installation reliability.

Simultaneous casing installation: Advances and pulls the protective casing together with drilling, ensuring a stable and reliable crossing even for larger diameters.

Stable and secure crossing execution: The combined drilling and casing method ensures a firm and dependable installation result.

Fast installation method: Offers a rapid drilling process with efficient progression through demanding ground conditions.

Cost savings in excavation: Provides significant savings in excavation costs compared to traditional open-cut methods.

Easy site setup: Allows straightforward and practical on-site installation and preparation.

Critical infrastructure suitability: Suitable for pipe and cable crossings under roads and railways without traffic disruption.

Finnish engineering expertise: Designed and manufactured in Finland by Tri-Mach Nordic Oy, backed by nearly 30 years of experience in rotary gearbox design and manufacturing.

Demanding ground DTH capability: Developed to deliver reliable DTH horizontal drilling performance in challenging ground conditions.

APPLICATIONS OF HZ DTH DRILLING RIG

- › **Horizontal drilling in rock and heterogeneous ground**
- › **Pipe and utility crossings under roads and railways**
- › **Installations requiring large diameter bores**
- › **Trenchless installations where surface disruption must be minimized**
- › **Installations in boulder and fractured ground conditions**

HZ DTH DRILLING RIG VP-800 TECHNICAL SPECIFICATIONS

Weight:

4800 kg (without 6m extension)

Length:

8500 mm

Width:

2000 mm (legs closed)

3000 mm (extreme position)

Height:

1700 mm

Support Leg Stroke:

800 mm

Maximum Pipe Diameter: 813 mm

Rotary Head model Tri-Mach PK6500

Feed System

Feed Force: 650 kN

Feed Speed: 16 m/min

Adjustment: Via planetary gear ratio

Equipment

Rear Support / Guide: Hydraulic, interchangeable

Control System: Radio remote control

Scissors: Interchangeable pipe diameter

Options

Control Center: Separated from rig

Full Radio Control: Available

Detachable Rear Support: Available

Extension: 6 m

VP-800 POWERPACK TECHNICAL SPECIFICATIONS

Engine

Iveco NEF67 TE2A diesel engine

Displacement

6.7 L

Power Output

195 (215) kW

Fuel Consumption

Specific Consumption (50% load): 25.6 l/h

Specific Consumption (80% load): 35.3 l/h

Specific Consumption (100% load): 44.0 l/h

Hydraulics

Pump 1: 130 cc (variable displacement / LS)

Pump 2: 25 cc

Output 1: 234 l/min

Output 2: 40 l/min

System Pressure: 280 bar

Options

Generator (Integrated): Dynaset HG26G-E400SS23-100-K (output 26 kVa)

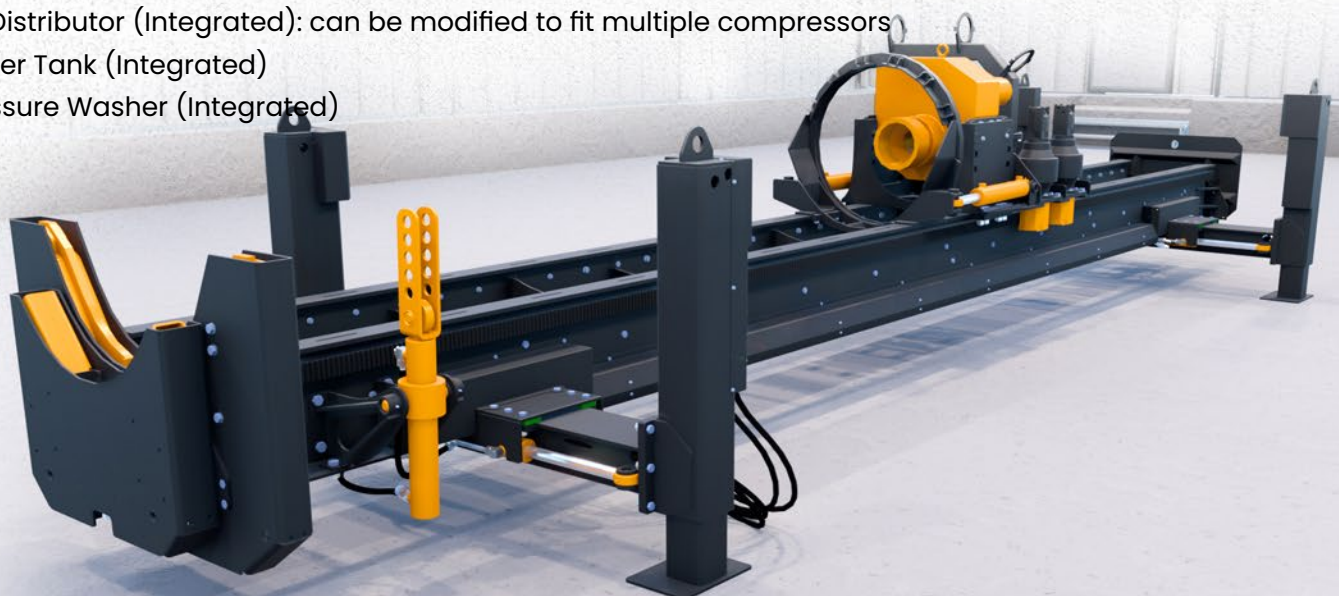
Hammer Oiler (Integrated)

Hammer Oil Tank (Integrated): size on request

Air Distributor (Integrated): can be modified to fit multiple compressors

Water Tank (Integrated)

Pressure Washer (Integrated)



ROTARY HEAD PK6500 TECHNICAL SPECIFICATIONS

Performance

Maximum Torque 65 kNm
Maximum Rotational Speed 35 r/min

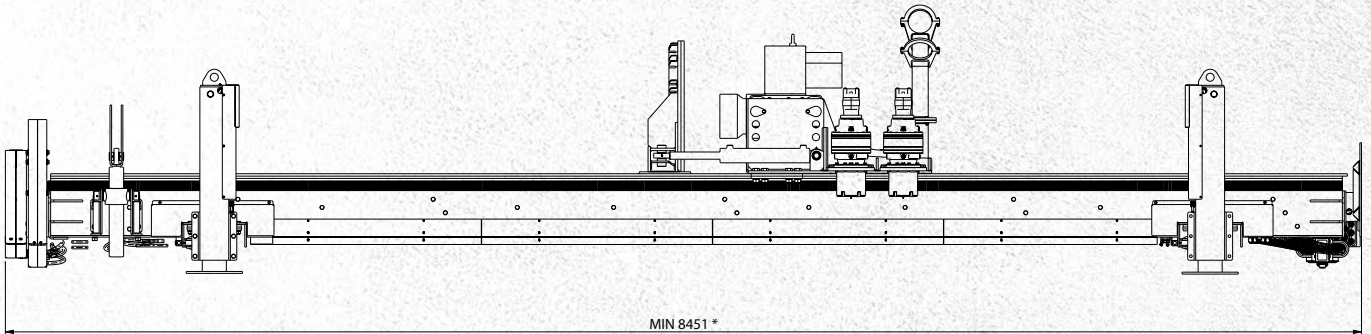
Total Weight

790 kg

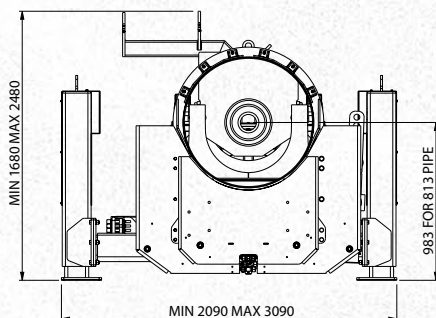
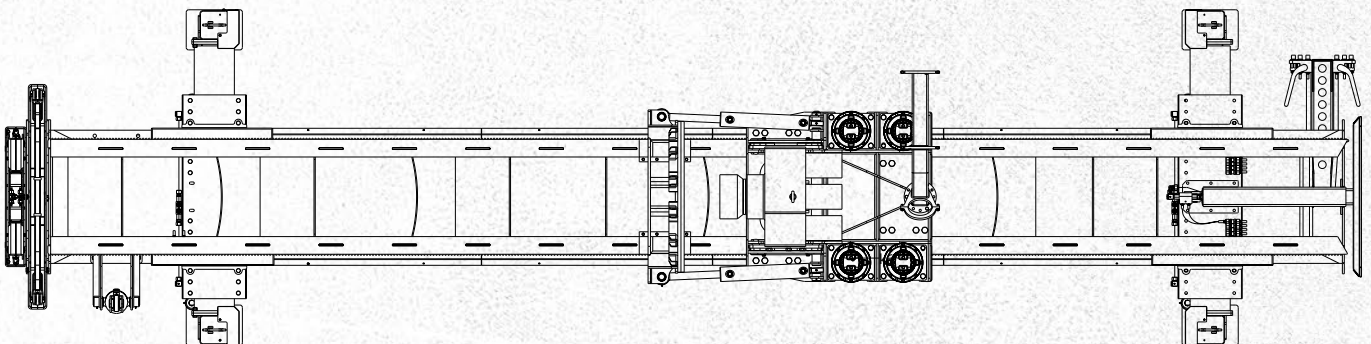
Connection

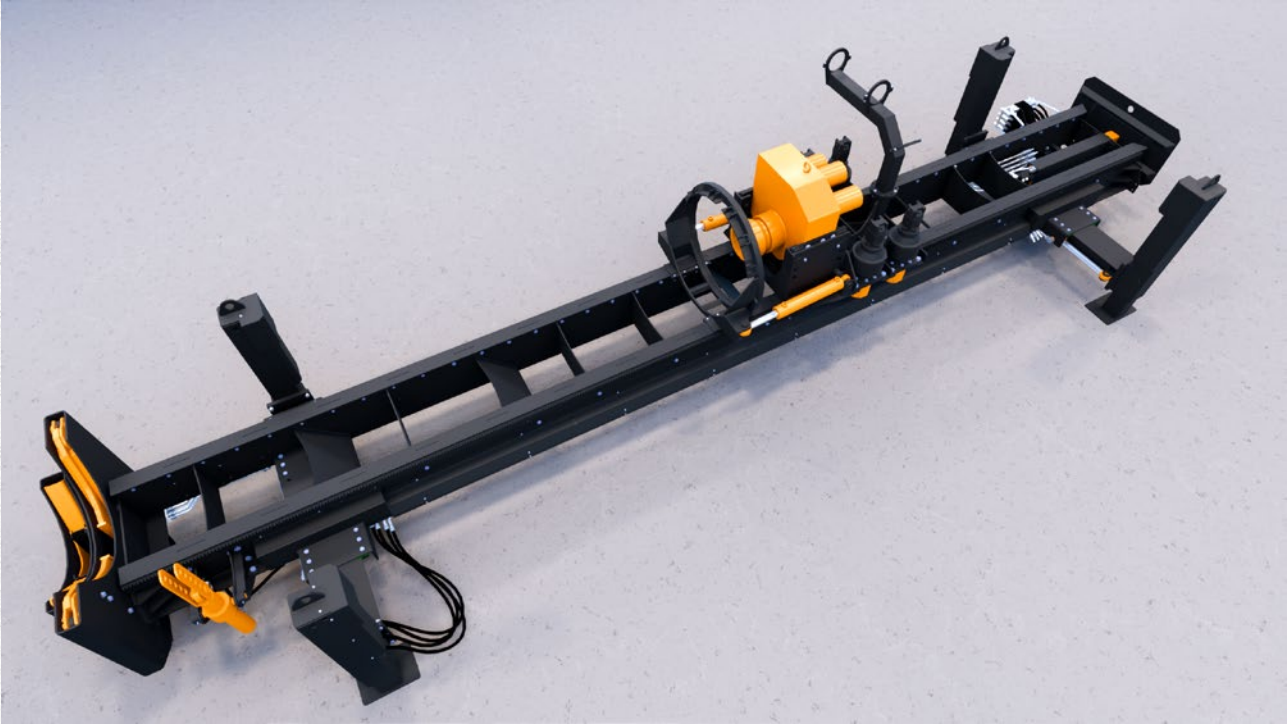
Outlet: API REG 8-5/8" BOX
Internal Air Swivel: Included
Air Inlet Connector: As per request (Default: G2 BOX THREAD)

DIMENSION DRAWING



*DEPENDS ON OPTIONAL EQUIPMENT





MORE THAN 30 YEARS OF EXPERIENCE IN MANUFACTURING THE TOUGHEST DTH DRILLING TOOLS

- › **DTH CASING RING BITS & PILOT BITS**
- › **DTH BUTTON BITS AND HOLE OPENERS**
 - › **DTH HAMMERS**
 - › **DTH SHOCK ABSORBERS**
 - › **DTH DRILL PIPES (API + BECO + HEX)**
 - › **HORIZONTAL CASING RING BITS**
 - › **HORIZONTAL AUGER RODS**
 - › **DTH HAMMER OILS**
 - › **DTH ROTARY HEADS**
- › **DTH HAMMER BREAKOUT BENCHES**
- › **DTH CONSULTATION & EXPERTISE**



TRI-MACH NORDIC OY

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