



KP-300

MOUNTED DTH DRILLING MAST



**TOUGHEST
DTH DRILLING
TOOLS**

MOUNTED DTH DRILLING MAST KP-300



MODULAR DRILLING POWER — BUILT FOR REAL WORKING CONDITIONS

The Tri-Mach Excavator Mounted DTH Drilling Mast converts a standard excavator into a powerful and highly versatile drilling unit. Designed and manufactured in Finland, the system reflects Nordic engineering principles: simplicity, durability, and dependable performance in demanding ground conditions.

At the heart of the concept is a fully modular drill mast system, allowing contractors to configure the equipment exactly according to project requirements — from short urban installations to long casing or foundation drilling operations.

Built with top-tier materials and robust mechanical solutions, the Tri-Mach mast is engineered for long service life, minimal maintenance, and reliable daily operation on challenging worksites.

DESIGNED AROUND MODULARITY

The entire system is based on a modular philosophy. The mast length can be adjusted from **2 to 15 meters** using bolted extension sections, allowing fast configuration changes without complex modifications. This enables one drilling unit to serve multiple applications and jobsite conditions.

The modular approach also allows future upgrades and configuration changes, protecting your investment as project requirements evolve.

BUILT FOR EXCAVATOR INTEGRATION

The system is designed for straightforward installation on common excavator platforms using a quick connector interface such as S70 or S80.

Radio control operation allows safe and efficient drilling control from an optimal operator position, improving both productivity and jobsite safety.

POWERFUL AND RELIABLE ROTARY HEAD — TRIMACH PK-1200

The mast is equipped with the **Tri-Mach PK-1200 DTH Rotary Head**, engineered specifically for demanding DTH drilling operations.

The PK-1200 combines high torque capacity with mechanical simplicity, ensuring consistent performance and reduced downtime.

KEY ADVANTAGES

- > Strong and simple mechanical structure
- > Designed for heavy-duty DTH drilling
- > Integrated air swivel for clean hose routing
- > Reliable performance with low maintenance requirements

AVAILABLE OPTIONS

THE SYSTEM CAN BE CONFIGURED WITH SEVERAL OPTIONAL FEATURES:

- > Auxiliary winch
- > Tilting rotary head
- > Mast tilt range +86° to -14.5° (customizable up to 90 degrees)
- > 90 degrees sideways angle piece (to make drilling system visible from excavator cabin)
- > Hydraulic clamping system
- > Pile driving hammer attachment
- > Top hammer drilling attachment

ONE MAST — MULTIPLE APPLICATIONS

THE TRI-MACH MODULAR DRILLING MAST IS DESIGNED AS A LONG-TERM PLATFORM RATHER THAN A SINGLE-PURPOSE ATTACHMENT.

By combining modular mast sections, interchangeable drilling systems, and robust Finnish engineering, contractors gain a flexible tool capable of adapting to changing jobsite demands.

TRI-MACH — BUILT TO DRILL. BUILT TO LAST.

TECHNICAL SPECIFICATIONS MAST SYSTEM

Mast length: 2–15 m

(adjustable with bolted sections)

Maximum extraction force: 100 kN (10 tonnes)

Attachment: Quick connector (e.g., S70 / S80)

Total weight (with PK-1200): approx. 1600 kg

Hydraulic requirement (max):

- Pressure: 200 bar

- Flow: 310 l/min

Control system: Radio controlled operation

TECHNICAL SPECIFICATIONS TRIMACH PK-1200 ROTARY HEAD

Maximum rotation torque: 12 kNm

Maximum rotation speed: 60 RPM

Total weight: 190 kg

Outlet: API REG 4-1/2" BOX

Integrated inlet air swivel

Air inlet connection: configurable

(standard G2 BOX thread)



ROBUST CONSTRUCTION — FINNISH MANUFACTURING

Every Tri-Mach mast is manufactured in Finland, using carefully selected high-strength materials and proven fabrication methods. The focus is not on unnecessary complexity, but on durable engineering solutions that withstand real drilling environments. The result is a drilling mast built for long operational life, even under heavy loads and continuous use.

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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