

DYNATECH INDUSTRIES PVT LTD

UPD – SERIES

UNDERGROUND PRODUCTION ITH Drill

MODEL – UPD40-TH

TECHNICAL SPECIFICATIONS





Product Introduction

DynatechIndustries Underground **P**roduction **D**rill with Hydraulic Top Hammer - **UPD40-TH** is a versatile Track mounted Drill.

Designed to drill with High pressure Top hammer.

Features

- > Drill diameters from 1-3/4" (45mm) to $3 \frac{1}{2}$ "(89mm).
- Depth rated to 30m (98.4ft) .
- > Accepts different size drill rods.
- > Unique compact feed Cylinder -25% more efficient cable feed.
- High efficiency long stroke
- > Hydraulic feed frame raise and dump feature provides 360° drilling capability
- > Incorporates the stranded DYNATECH drill components for reliability and easy servicing



Drilling size and Depth Capacity

Method of drilling: TOP HammerDrill Diameter holes: 1 ¾"inch (45mm) to 3 ½"(89mm).Depth: 30 Mtrs (98.4 Ft)

MAST & FEED ASSEMBLY

- Mast is made of stiff and torsion steel profile construction. Feed boom is mounted on a frame with two hydraulic tilt cylinders and mechanical lockable supports. The positioner system is specially designed to handle various loads.
- The feed cylinder is situated between the drill slide members. It is of unique design which allows 1.4m of head travel with the use of wire ropes.
- > The design has the advantage with wire ropes and pulleys, resulting in higher efficiency and less maintenance .
- Drifter unit drive mounting plate has longer wearing replaceable sliders for positive control of rotation unit movement up and down.

Туре	: Hydraulic (cylinder over Ropes.
Head travel length	: 1, 4 m	(4.6 ft)
Rod Handling length	: 1, 20 m	(3.93 ft)
Retract force	: 20.5 KN	(4608 lb)
Pull down force	: 20.5 KN	(4608 lb)
Pull up speed	: 25 meters/	min
Pull down speed	: 25 meters/	min
Fine feed speed	: 4.5 metres/min	
Centralizer opening	: 4.5inch (115mm)	

Positioning

- > The feed is positioned horizontally for trimming .
- > The feed can be rotated 360 degree by rack and pinion mechanism.
- > The drill has a slide over mechanism for faster position of the drill hole.
- > Fixing of the feed is done two set of stringer cylinders.

Swing angle	: 360degree
Feed extension	: 750mm
Stinger extension top	: 1524mm (5.0 ft)
Stinger extension bottom	: 1000 mm (3.2 ft)



Hydraulic Rock Drill

> The High frequency Hydraulic rock drill specially designed for underground production drilling.

Percussion power	:16KW	
Rotation Torque	:900Nm (intermittent)	
Speed	:100-200RPM	
Shank Adaptor	: T38 , T45	
Shank Lubrication	: Oil Mist Lubricator	
Shank lubrication air flow	:200 – 300 liters/min.	
Shank lubrication Compressor: EN5- 0.6 m3/min (7bar)		
Air Consumption	:200-330 l/m	
Oil Consumption	:300-600 g/h	
Flushing air pressure	:5-7bar	
Flushing water flow	:150liters/min.	

Flushing system

Flushing	: Water
Water pump type	:DCIL-10-12
Water Capacity	:100Lpm (12bar)
Pressure	:12bar max
Drive	:electric

Powerpack

The power pack consists of a rugged skid frame on which is mounted the 56kw(75hp) electric motor,

Load sensing variable displacement piston pump. Oil cooled by shell and tube type oil /water cooler.

- The large 200L reservoir provides flooded suction for all pumps. Lockable full bore valves in the suction lines permit easy servicing. Hydraulic oil can only be added to the tank through a hand pump and filter preventing contamination of the hydraulic system. An external sight gauge allows easy monitoring hydraulic oil level and temperature.
- > A full flow 10 micron beta rated return filter with virtual indicator keeps the hydraulic oil clean a water cooled heat exchanger cools the hydraulic oil.

Electric Motor
Protection
Hydraulic Tank Capacity
Max Operating pressure
Hydraulic oil Cooling

: 56kW (75hp) TEFC electric motor. : IP55 ,(Flame proof Optional) : 200 L (52.8 gal US) : 207bar (3000 Psi) : oil/water cooler.

CONTROL CONSOLE

The control console is the valves which controls direction and speed (continuously variable) of rotation, fast travel and handling .

Hydraulic pilot controls . Panel : remote place able with 6 meter long pilot hoses.



Electricals Total input power :70KW Standard Voltage :400V Frequency :50HZ Starter :Delta-WYE starter Safety :circuit breaker, on/off reset buttons, :Phase loss/Phase reversal protection :Motor Over load Protection :Digital Earth leakage relay :Voltmeter / ammeter , indicator lamps :working 2x100w LED flood lights on drill Lighting :working x100w LED flood lights on tripod :Driving 2x20W LED lights **Undercarriage** Tracks :Sealed and lubricated Type :Triplex Grouser Width :350mm Brakes :SAHR (spring applied hydraulic released) Greadeability :40% **Ground Clearance** :178mm

Tramming kit

Туре	:Hydraulic powered
Power source	:Diesel engine
Engine	: Air cooled Diesel Engine
Power	:47Hp
Speed	:2300Rpm
Emission	: compliance as per CMVR STAGE III
Brakes	:SAHR (spring applied hydraulic released)
Greadeability	:40%
Ground Clearance	:178mm

Dimensions – Standard Configuration

Width Height	:standard 70.8inch(1800mm) :mast down tramming :94.5inch (2400mm) :Mast up drilling :116inch (2950mm)
Length	:mast down tramming :169.3 inch (4300mm)
Weight	:Mast up drilling :8000kg (17664 lbs)



Options

Fire extinguisher	Туре	: Dry Chemical fire extinguisher
Electrical Panel	Туре	: DGMS approved explosion proof
		NEMA4 standard,stainless steel.
Electrical motor	Туре	: DGMS approved Explosion proof .
Electrical Cables	Туре	: DGMS approved .
Hydraulic fluid	Туре	: Fire resistance hydraulic fluid .
Tramming	Туре	: Electric remote control .

Specifications are subjected to modify or change ,Which are made time to time by DynatechIndustries Pvt Ltd and their suppliers according to their polices for upgrade their products. All Dimensions and weights are approximate and are subjected to change without notice.



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