

DeltaBase 550 - Multipurpose Drill Rig

DRILLING DEPTH GUIDELINES

The figures in these tables have been calculated, based on field experiences, and may be reasonably expected.

Actual drilling capacity will depend on in-hole tools and conditions, drilling techniques and equipment used.

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
STANDARD DRILLING SYSTEMS	Dry hole	Dry hole
Core Drilling		
HQ (63,5 mm core diameter)	1000 m	3281 ft
Rotary Drilling		
Rock Roller Bit 7 7/8" (mud circulation)	250 m	820 ft
Auger Drilling		
Maximum 6"	120 mm	394 ft
DTH Drilling		
4 3/4" to 5 1/4" (4 1/2" O.D. RC drill pipe with 2 3/4" I.D.)	120 m	394 ft

STANDARD UNIT

ROTARY HEAD HY77	TORQUE AND RPM RATINGS	
Low Gear	10000/0-50 Nm/rpm	7376/0-50 lb-ft/rpm
Medium Gear	5600/0-120 Nm/rpm	4130/0-120 lb-ft/rpm
High Gear	745/0-800 Nm/rpm	550/0-800 lb-ft/rpm
Bore - Inside Diameter	100 mm	4 in
Rotation Motors	Danfoss hydraulic motor	
Top Drive Flange	2 7/8" API Reg Box	
Gear Ratio	5.19:1	

Hydraulic motor at max/min displacement, diesel engine at 2200 rpm.

HYDRAULIC SYSTEM

Pump variable load-sensing		
Max Flow	342 lpm	90.3 gpm
Max Pressure	280 bar	4060 psi
Hydraulic Oil Volume	600 l	158.5 g

The hydraulic system is connected to the engine through the gear box and transfer case with a direct drive line to the PTO.

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	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
DRILL MAST AND FEED SYSTEM		
Feed Stroke	7400 mm	24.3 ft
Feed Speed Down/Up	0-36 m/min	0-118 ft/min
Pull Down Force	80 kN	18000 lbf
Pull Back Force	140 kN	31500 lbf
MAIN WINCH BH220		
Line Pull	35 kN	7875 lbf
Line Speed	65 m/min	213 ft/min
Cable Length 12 mm	130 m	426.5 ft
ROD CLAMPS		
Maximum Diameter	324 mm	12 ³ / ₄ in
Maximum Holding Force	300 kN	67420 lbf
Clamping Sizes	65 to 324 mm	2 ¹ / ₂ to 12 ³ / ₄ lbf
UNDERCARRIAGE		
	Truck mounted - Renault Kerax 6x6	
Maximum Driving Speed	90 km/h	56 mph
Climbing Capacity	(Grade ability 65 %) approximately 30°	
OPTIONAL EQUIPMENT		
NOTE: A standard rig includes all the options.		
Wireline Winch		
Line Pull	10 kN	2250 lbf
Line Speed	200 m/min	656 ft/min
Cable Length 5 mm	1400 mm	4593 ft
WATER/MUD PUMPS		
Type	Speck P55/160-100G	
Flow	160 l/min @ 750 rpm	42 gpm @ 750 rpm
Pressure	60 bar	870 psi
Type	Gardner Denver FG-FGX	
Flow	756 l/min @ 100 rpm	200 gpm @ 100 rpm
Pressure	22 bar	320 psi

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	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
High Pressure Water Pump		
Flow	2-23 lpm	0.5-6 gpm
Pressure	110 bar	1595 psi
Foam Injection Pump		
Flow	2,5-29 l/hr	36.6-459 gpm
DTH Lubricator		
Flow	0,8-12 l/hr	12.6-190 gpm
Pressure	40 bar	580 psi
Compressor		
Flow	27 m ³ /min	953 cfm
Pressure	25 bar	363 cfm
Diesel Engine	Mercedes-Benz OM 501LA-6V	

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DIMENSIONS AND WEIGHTS *

Dry Weight : approx. 22000 + 6800 kg (13670 + 15000 lb)

Operational Weight : approx. 26000 kg (57330 lb)

- Consists of:
- PTO Driven
 - Drill Mast with Built-In Hydraulic Cylinder
 - Main Winch c/w Cable
 - Hydraulic System
 - Wireline Winch
 - Rotary Head with Boart Longyear Break-O-Matic System
 - Variable Piston Pump with Load-Sensing
 - Mast Support with 324mm Rod Clamps
 - Electric Operator Controls
 - Hydraulically Operated Stabilizing Jacks

UNDERCARRIAGE

Width: 2560 mm (101 in)

Length: 10750 mm (424 in)

