

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 1 of 6

PRODUCT OVERVIEW

The DeltaBase 95 Anchor drill rig for double-head drilling systems, rotary / rotary or rotary / percussive drilling systems is specially designed for the following key capabilities:

- Rock drills up to $We = 500$ (Nm)
- Rotary heads up to $M = 15,000$ (Nm)
- Hydraulic clamping and breaking system up to max. 254 mm

The main advantages of the DeltaBase 95 are:

- Compact light weight design
- Modern load-sensing hydraulic
- Highest coordination between equipment technology and drill technology



TECHNICAL SPECIFICATIONS

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
PRIME MOVER		
Standard	DEUTZ TCD 2013 L04 2V, Tier III	
Fuel	Diesel	
Fuel Consumption	ca. 23 l/h	ca. 6.1 gal/h
Maximum Power	105 kW @ 2.300 rpm	141 hp @ 2,300 rpm
Electrical Circuit	24V	
Fuel Tank Capacity	230 l	52 gal
HYDRAULIC SYSTEM		
Primary Pump	Axial piston pump with power regulator, load sensing and pressure regulated	
Maximum Flow, Q1	300 l/min	80 gpm
Maximum Pressure	400 bar	5,800 psi
Auxiliary Pumps	2x Gear Pump	
Flow, Q2	40 l/min	9 gpm
Flow, Q3	25 l/min	5.7 gpm
Hydraulic Oil Tank Capacity	320 l	72 gal
Oil Cooler Capacity	25 kW	33 hp

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 2 of 6

TECHNICAL SPECIFICATIONS

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
SINGLE ROTARY HEAD		
Maximum Torque (varies by head selection)	15 kNm	11,000 lb-ft
Optional Side Shift Sled	Hydraulic shift to left	
SINGLE HYDRAULIC DRIFTER		
Maximum Torque (varies by head selection)	15 kNm	11,000 lb-ft
Maximum Percussion Impact	500 Nm	369 lbf-ft
Optional Side Shift Sled	Hydraulic shift to left	
DOUBLE ROTARY HEAD		
Maximum Torque (varies by head selection)	15 kNm	11,000 lb-ft
UNDERCARRIAGE		
Type	B1	
Crawler Width	400 mm	15.7 in
Crawler Track Type	Steel, 3 rib grouser plate	
Oscillating	+/-15°	
Driving Speed Low Gear	2,5 km/h	1.55 mph
Max. Grade Ability + B15 (without added winch)	20°	
MACHINE CONTROLS		
Drilling Controls	Direct hydraulic, adjustable driller panel	
Drilling Controls - Optional	Radio remote control	
Drilling Controls Panel	2 point positioning adjustment	
Driving Controls	Radio remote control - standard	
Mast Hydraulic Hose Bundle	Mounted on left side of mast	

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 3 of 6

TECHNICAL SPECIFICATIONS

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
DRILL MAST AND FEED SYSTEM		
Drill Mast Feed Method	Hydraulic feed cylinder	
Drill Mast Total Length	5,2 m	17.1 ft
Feed Stroke Length, Single Head	3,6 m	11.8 ft
Feed Stroke Length, Double Head	2,5 m	8.2 ft
Feed Speed - Down	15 m/min	49 ft/min
Fast Feed Speed - Down	50 m/min	164 ft/min
Feed Speed - Up	12 m/min	39 ft/min
Fast Feed Speed - Up	40 m/min	131 ft/min
Pull Force Down (Crowd)	3.000 kg	6,600 lbs
Pull Force Back	7.000 kg	15,430 lbs
Mast Dump	1,2 m	3.9 ft
Max. Rod Length - Single Head	3 m	10 ft
Max. Rod Length - Double Head	2 m	6.5 ft
Break-out-torque, maximum torque	28 kNm	20,900 lb-ft
Centralizer Insert Size (Standard)	76, 89, 102, 108, 114, 133, (152), 178, 220, 254 mm 3, 3.5, 4, 4.25, 4.5, 5.25, (6), 7, 8.67, 10 in	
ROD CLAMPING / BREAKING SYSTEMS		
220 mm Fixed Jaw System		
Max. Clamp Diameter	220 mm	8.6 in
Clamping Range	50 mm - 220 mm	1.9 in - 8.6 in
Max. Holding Force	120 kN	27,000 lbf
Max. Break Out Torque	21 kNm	15,100 lbf-ft
Clamp Jaw Style	Fixed	
Optional 254 mm Pivoting Jaw System		
Max. Clamp Diameter	254 mm	10 in
Clamping Range	60 mm - 254 mm	2.4 in - 10 in
Max. Holding Force	196 kN	44,000 lbf
Max. Break Out Torque	32 kNm	23,600 lbf-ft
Clamp Jaw Style	Pivoting Jaws	

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 4 of 6

TECHNICAL SPECIFICATIONS

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
ROD CLAMPING / BREAKING SYSTEMS		
265 mm Fixed Jaw System		
Max. Clamp Diameter	265 mm	10.4 in
Clamping Range	60 mm - 265 mm	2.4 in - 10.4 in
Max. Holding Force	120 kN	27,000 lbf
Max. Break Out Torque	24 kNm	17,700 lbf-ft
Clamp Jaw Style	Fixed	
Centralizer Insert Size (Standard)	76, 89, 102, 108, 114, 133, (152), 178, 220, 254, 265 mm 3, 3.5, 4, 4.25, 4.5, 5.25, (6), 7, 8.67, 10, 10.4 in	
WATER PUMP		
Pump type	Gamma Pump 202 TS	
Flow	200 l/min	52 gpm
Pressure	50 bar	725 psi
Suction hose connection on rig	1½" G female	
Pump type	HPW 200/30 Mist pump	
Flow	30 l/min	8 gpm
Pressure	200 bar	2,900 psi
WINCH AND CAT HEAD		
Winch type	PL2	
Maximum pull on inner layer	9 kN	2,000 lbf
Line speed	50 m/min	164 ft/min
Cable diameter	8 mm	0.31 in
Cable length	40 m	131 ft
Winch Cat Head Pully System	Fixed position	
Optional Winch Cat Head Pully System	Manually Rotation +/- 45°	

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 5 of 6

TECHNICAL SPECIFICATIONS

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
OIL LINE LUBRICATOR FOR DTH DRILLING		
Tank Capacity	20 l	5.3 gal
Max. Pressure	25 bar	363 psi
HIGH PRESSURE WASHER		
High Pressure Washer Type	Dynaset HPW 200 / 30	
Tank Capacity	30 l/min	7.9 gpm
Max. Pressure	200 bar	2,900 psi
LOADING CRANE		
Loading Force	2,7 mto	19,500 lb-ft
Loading Reach	5.700 mm	18.7 ft
COLD WHEATER PACKAGE		
Engine and Hydraulics Pre-Heating	For operating conditions below -15° C (5° F)	
OPTIONAL ACCESSORIES		
Night Lights	3 pcs x 55 Watts	
Rubber Crawler Pads	Full set of 44 pcs	
Tool Box	Includes all necessary tools for basic maintenance and lubrication	

DeltaBase 95

Technical Data Sheet



Release Date: Sept 16th 2008

Page 6 of 6

DIMENSIONS AND WEIGHTS*

WEIGHT

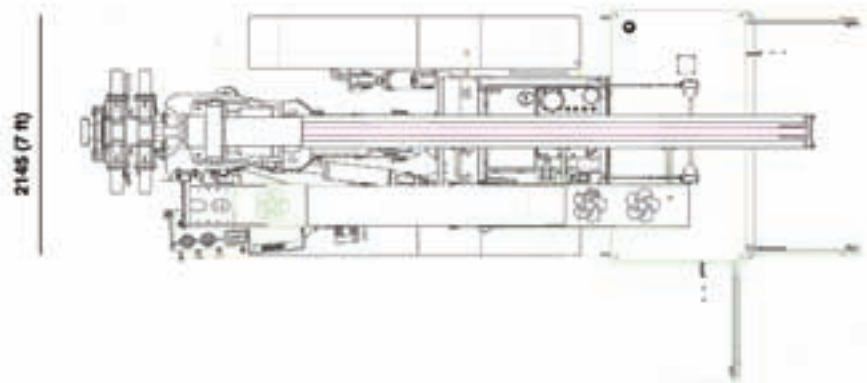
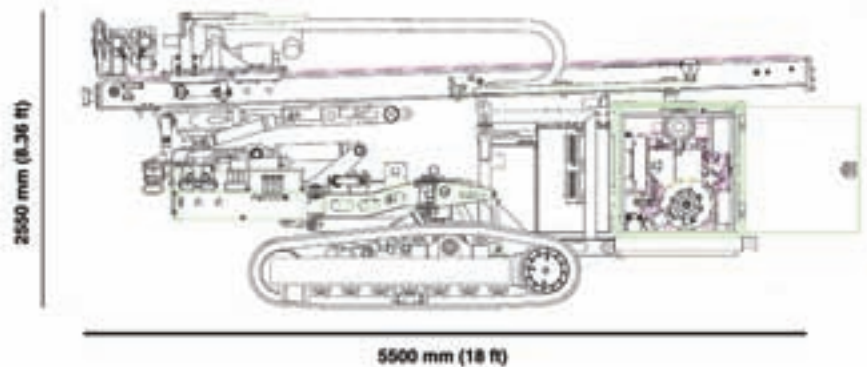
Dry Weight =
10.000 kg (22,000 lb)

Climbing capacity, without add. winch
Grade ability 37%, approx. 20°

Consisting of:
DEUTZ TCD 2013 L04 2V power unit group 6 cylinder
Hydraulic module
24 V DC electrical system
Variable piston pump with load sensing and torque control
Clamping and breaking device for max. \varnothing 254 mm casing
Rotary head / hydraulic drifter / double head drilling unit
Crawler
Electric operator controls
Towing coupling on rig end

MEASUREMENTS

Length = 5500 mm (18 ft)
Height (mast down) = 2550 mm (8.36 ft)
Width = 2145 mm (7 ft)



* Dimensions and weights may vary depending on options and should be checked before starting an operation.

Boart Longyear is constantly striving to improve its products and must therefore, reserve the right to change designs, materials, specifications and price without notice.

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