



FACT SHEET

Boart Longyear DELTABASE 525

GEOTECHNICAL AND EXPLORATION DRILLING RIG



GEOMECH AFRICA LEVEL 1 - B-BBEE

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About The DeltaBase 525 Multipurpose Drill

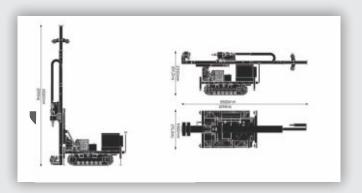
This compact and lightweight drill rig is capable of multiple drilling methods. It offers drill speeds of up to 740 rpm and pullback of 38kN. With versatility and strength at the forefront, it also offers a large drill head providing increased torque and speed. Meeting many site challenges head-on.

Dimensions and Weights

Crawler Mounted Drill Rig Weight: Standard 6 500 kg (RC option 7500 kg) Consists of:

- 4DEUTZ BF4L914 Power Unit Grp. -4.3 litre 4 cylinder (D914L04 as option)
- · Hydraulic Module
- Main Hoist c/w Cable
- Hydraulic Mast Raising (independant)
- · Lower Mast Assembly
- · Rotation Unit Group
- Crawler Frame
- Battery
- Levelling Jacks (hydraulic) 4
- Operator Controls
- · Holding Clamp and Breaking Clamp





Crawler Chassis Steel Tracks

Axis distance: 1715 mm Length: 1900 mm

Width of track shoes: 300 mm Max. ground pressure: 0.053 MPa

Weight: 1035 kg

Max. Driving speed: 1.5 km/h Max. Climbing ability: 60% (30°)

* Dimensions and weights may vary depending on options and should be checked before crating or lifting.

Technical Specifications				
PRIME MOVER				
STANDARD	DEUTZ BF4L914 air cooled Diesel			
SWEPT VOLUME	4,31 litre			
POWER MAXIMUM	72,4 kW			
RATER RPM	2300 rpm			
SPECIFIC FUEL ONSUMPTION	225 g/kWh			

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Technical Specifications						
ROTARY HEAD DD52 2 GEAR WITH VARIABLE DISPLACEMENT MOTOR		DRILL MAST AND FEED SYSTEM WITH FEED CYLINDER				
RPM Torque (Nm)		TOTAL LENGTH	6,30 m			
1ST GEAR	48 - 250	4890 - 977	FEED STROKE	4 m		
2ND GEAR	140 - 740	1859 - 371	FEED SPEED: UP DOWN	12,5 m/min 18 m/min		
ROTATION MOTOR	Danfoss hydraulic motor (variable/reversable - remote pilot)		FAST FEED SPEED: UP DOWN	31 m/min 51 m/min		
MECHANICAL TRANSMISSION 1ST GEAR RATIO	7,68:1		PULL DOWN FORCE	34 kN		
1ST GEAR RATIO			PULL BACK FORCE	55 kN		
MECHANICAL TRANSMISSION 2ND GEAR RATIO	2,92:1		DRILLING INCLINATION	45 degrees below horizontal to 90 degrees vertically down		
BORE INSIDE DIAMETER	62 mm		WINCH MAIN HOIST TYPE BRADEN BG 6			
FLOATING SPINDLE INSIDE DIAMTER	30) mm	LINE PULL - BARE DRUM - FULL DRUM	31,1 kN 23,1 kN		
FLOATING SPINDLE STROKE	60 mm		ROPE SPEED @ 60L/MIN	20,1 1114		
DRIVE FLANGE	60,32 mm A.P.I.		- BARE DRUM - FULL DRUM	29 m/min 36 m/min		
SIDE SHIFT	500 mm Stroke hydraulic		FOR CABLE DIAMETER14MM	35 m		
NOTE: The hydraulic motor ratings are at max. and min. displacement, prime mover at 2200 rpm.		WINCH OPTION MAIN HOIST TYPE SH220				
	REVERSE CIRCULATION FLUSHING ATTACHMENTS		LINE PULL	20 000 N		
(OPTIONAL) HYDRAULIC SYSTEM		ROPE SPEED @ 50 L/MIN FOR CABLE O 12 MM	44 m/min			
PRIMARY PUMP PARKER BENT AXIS - FIXED DISPLACEMENT		MAST EXTENSION FITTED ONTO STANDARD MAST TO PULL 6 M ROD LENGTHS				
MAX FLOW	66 lpm @	2200 rpm	LENGTH OF RODS	2 x 3 m		
MAX PRESSURE	25	MPa	TOTAL WEIGHT	140 kg		
SECONDARY PUMP - CASAPPA GEAR PUMP		WIRELINE HOIST				
MAX FLOW (1ST)	59 lpm @	2200 rpm	LINE PULL	6500 N		
MAX FLOW (2ND)	48 lpm @	2200 rpm	ROPE SPEED @ 59 L/MIN	100 m/min		
MAX PRESSURE (1ST)	17,	5 MPa	FOR CABLE DIAMETER 6 MM	250 m		
MAX PRESSURE (2ND)	17,	5 MPa	OPTIONAL CABLE DIAMETER 5 MM	350 m		





Accessories

Drilling Systems

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

- · Crawler with steel tracks
- Rob and break-out clamps 220 mm
- Centraliser for 220 mm rod clamps
- Drill pipe storage
- · Night lights
- Connecting flange 2 7/8 API thread
- Connecting flange HQ thread
- · Connecting flange NQ thread
- · Connecting flange NWY thread
- Jaws plates for BW casing
- Jaw plates for NW casing
- Jaw plates for HWT casing
- Tool box

Technical Specifications					
STANDARD DRILLING SYSTEMS					
CORE DRILLING	CORE BARREL	HOLE DEPTH			
	NQ/NQ2" /NV/NV/2"	310 m			
	HQ/HV	220 m			
	PQ/PV	145 m			
	SQ	90 m			
REVERSE CIRCULATION DRILLING	140 m	101,6 mm RC Pipe			
	160 m	88,9 mm RC Pipe			
ROTARY DRILLING (TRICONE) HOLE DIAMETER216 MM	175 m				
AUGER DRILLING HOLE DIAMETER - 150 MM	15-20 m				
OPTIONAL DRILLING PACKAGE SPT (STANDARD PENETRATION TEST) AUTO HAMMER					
IMPACT RATE	1-30 bpm				
LENGTH OF TRAVEL	762 mm				
HAMMER WEIGHT	63 kg				
TOTAL WEIGHT	180 kg				





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The GeoGroup

GeoGroup comprises of a group of companies, each a leader in its own field, providing a range of services to the geotechnical, civil, mining and energy industries.

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About Geomech Africa

Geomech Africa (Pty) Ltd is an industry leader in the geotechnical investigations in Southern Africa. Certified as a **Level 1 B-BBEE** contributor. Providing drilling and testing services to the minerals exploration market, as well as geotechnical and civil industries in and around Southern Africa and Africa.

Geomechanics has long-term policies of developing operational/maintenance staff and upgrading equipment, to ensure that geotechnical investigations conducted for our clients are accurate, timely, cost effective and easily interpreted.



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