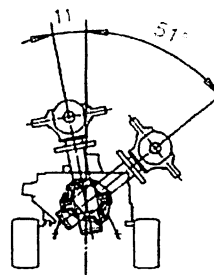
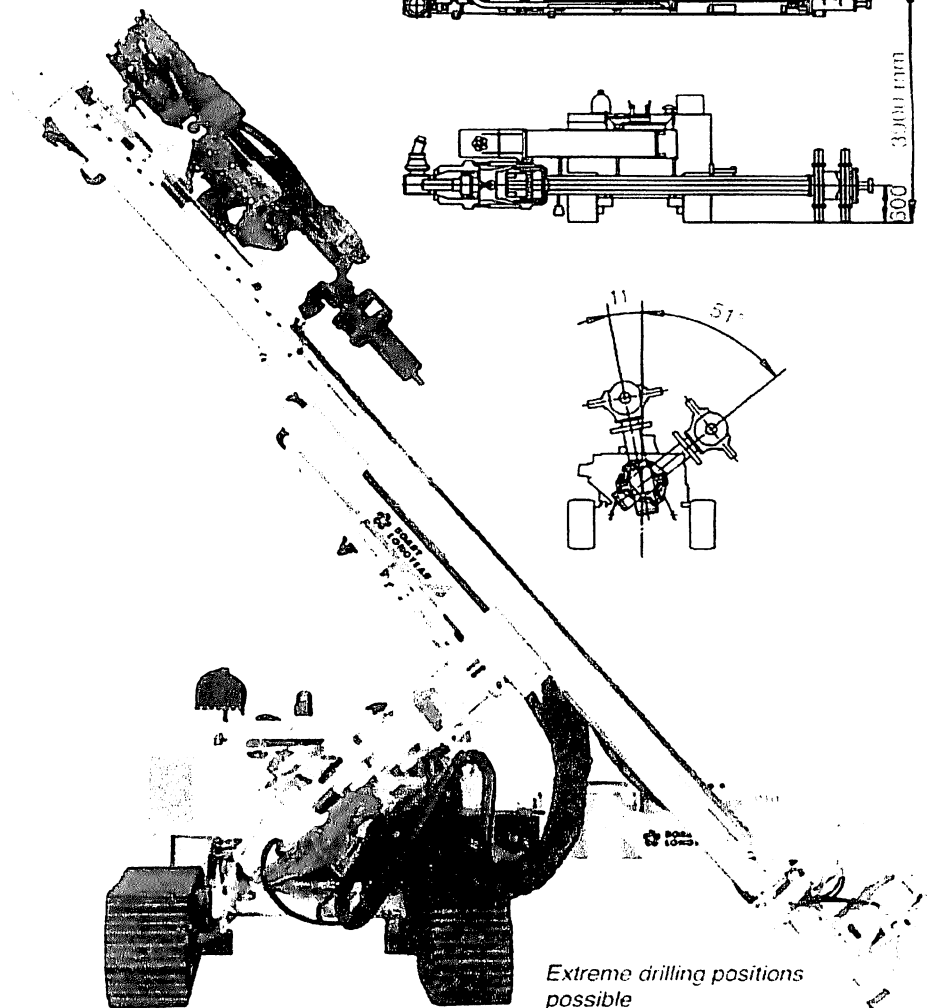
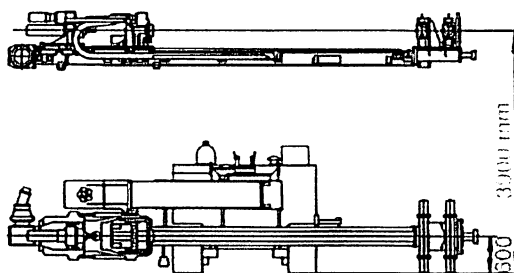
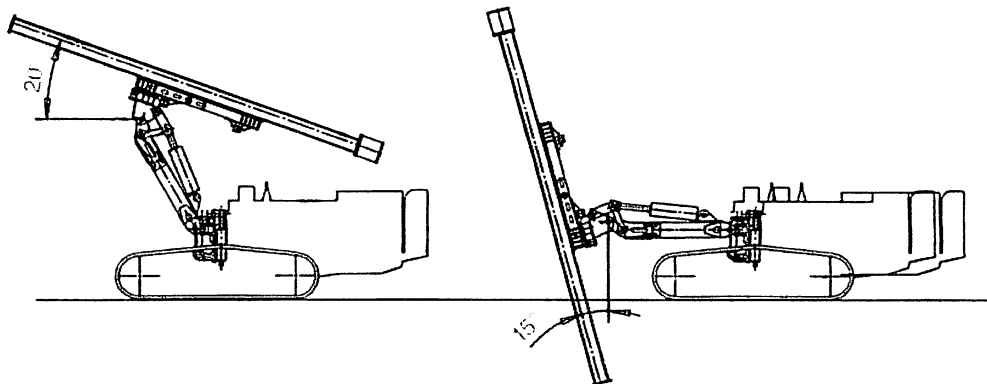




# Kinematics DeltaBase 102

## DeltaBase 102

Flexible in relation to drilling positions



## DeltaBase 102 - Anchor drill rig

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
<b>STANDARD BUILD</b>		
<b>PRIME MOVER</b>		
Standard unit	DEUTZ TCD 2012 L06 2V	
Fuel	Diesel	
Fuel consumption	202 g/kWh	
Max. Power	147 kW @ 2,300 rpm	206 hp @ 2,300 rpm
Electrical circuit	24 V	
Tank capacity	260 l	68 gal
<b>HYDRAULIC SYSTEM</b>		
<b>Pump variable load-sensing with torque control</b>		
Max flow, Q <sub>1</sub>	300 l/min	80 gpm
Max flow, Q <sub>2</sub>	95 l/min	25 gpm
Max pressure	250 bar	3,625 psi
<b>Gear pump</b>		
Flow	25 l/min	6.6 gpm
	(+40 l/min optional)	(+10.56 gpm optional)
Hydraulic oil volume	450 l	119 gal
Oil cooler capacity	25 kW	34 hp
<b>ROTARY UNITS</b>		
Max torque	24,000 Nm	17,650 lb-ft
<b>DRIFTERS</b>		
Max torque	24,000 Nm	17,650 lb-ft
<b>DOUBLE HEAD DRILLING UNITS</b>		
Max torque	24,000 Nm	17,650 lb-ft

## DeltaBase 102 - Anchor drill rig

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
<b>DRILL MAST AND FEED SYSTEM</b>		
Feed stroke length, double head	3,600 mm	12 ft
Feed speed - down	15 m/min	49 ft/min
Fast feed speed - up	50 m/min	164 ft/min
Fast feed speed - down	50 m/min	164 ft/min
Pull down force	100 kN	22,470 lbf
Pull back force	100 kN	22,470 lbf
<b>ROD CLAMPS</b>		
Max diameter (standard)	254 mm	10 in
Clamping sizes	from $\varnothing 45$ to $\varnothing 254$ mm	from 1 $\frac{3}{4}$ to 10 in
Max holding force	196 KN	44,045 lbf
Break-out-torque, max. torque	25 KNm	18,300 lbf-ft
<b>UNDERCARRIAGE</b>		
Type	B2	Crawler mounted oscillating tracks
Pad width	450 mm	18 in
Oscillating		+18°/-15°
Driving speed low gear	2.5 km/h	1.55 mph
Max grade ability low gear (without add. winch)		37 % (-20°)
Steel tracks		as standard

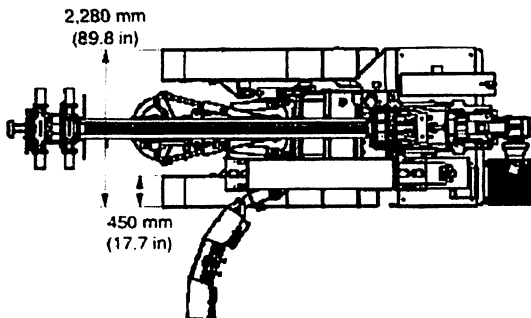
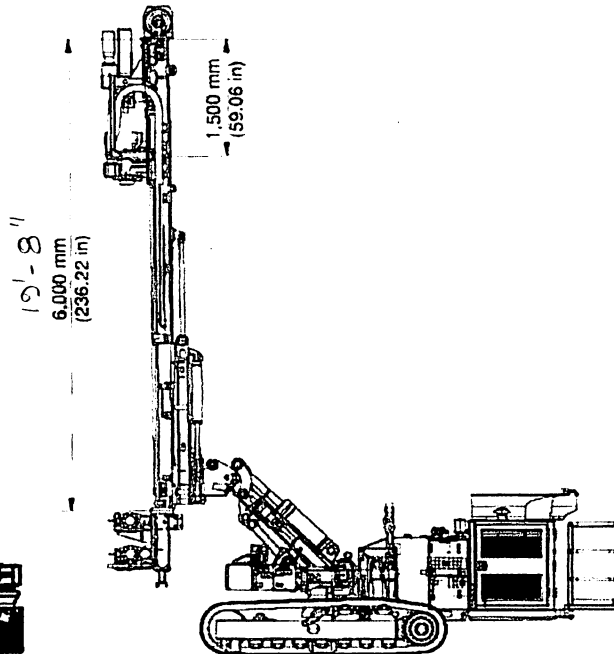
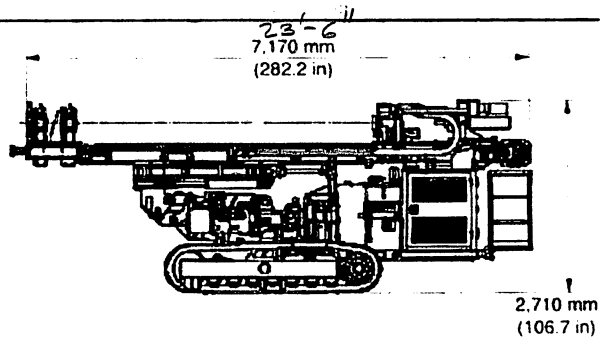
## DeltaBase 102 - Anchor drill rig

	METRIC SYSTEM	U.S. CUSTOMARY SYSTEM
<b>DIMENSIONS AND WEIGHTS*</b>		
Dry weight (approx.)	13,900 kg	30,640 lb
Operational weight (approx.)	15,400 kg	33,950 lb
Climbing capacity (without add. winch)	(Grade ability 37 %) approx. 20°	
Sound level below	76 dbA at 10 meters	

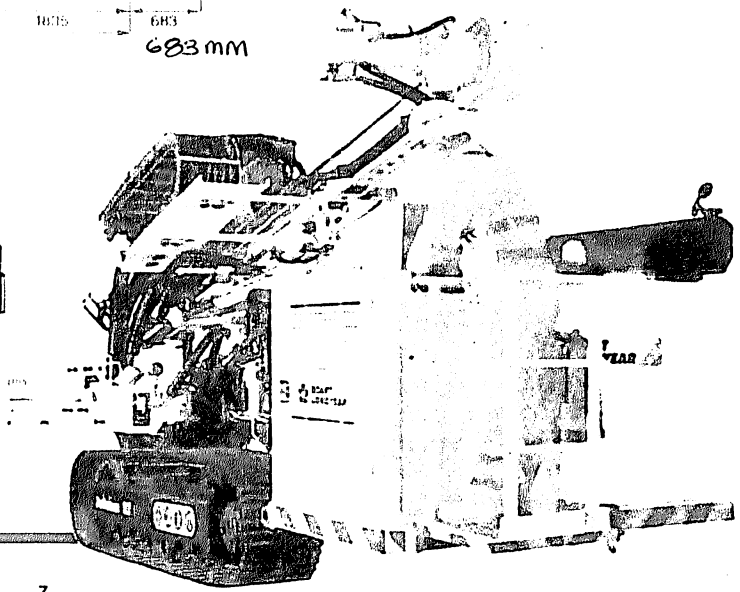
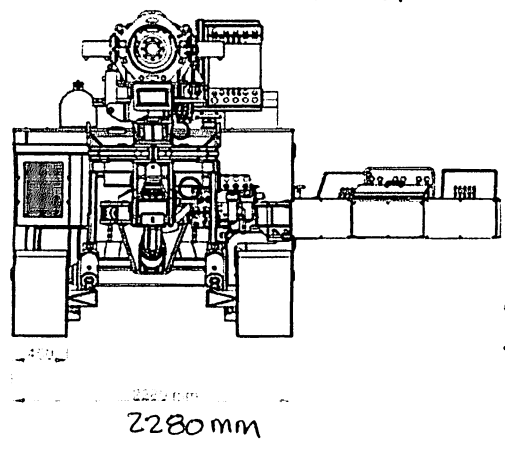
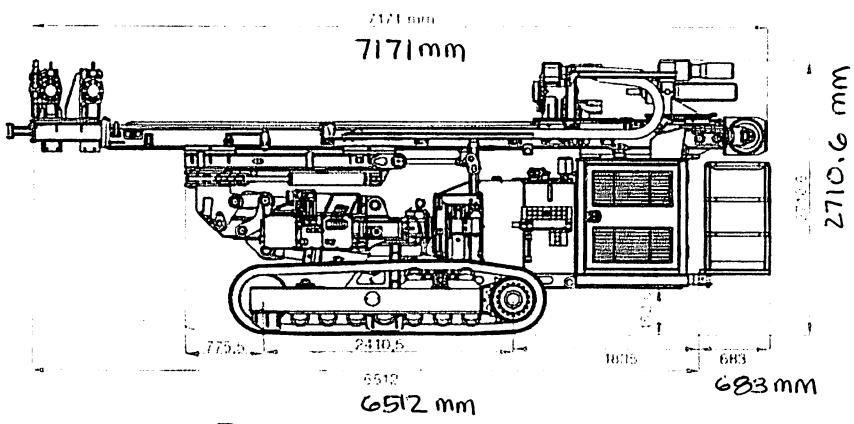
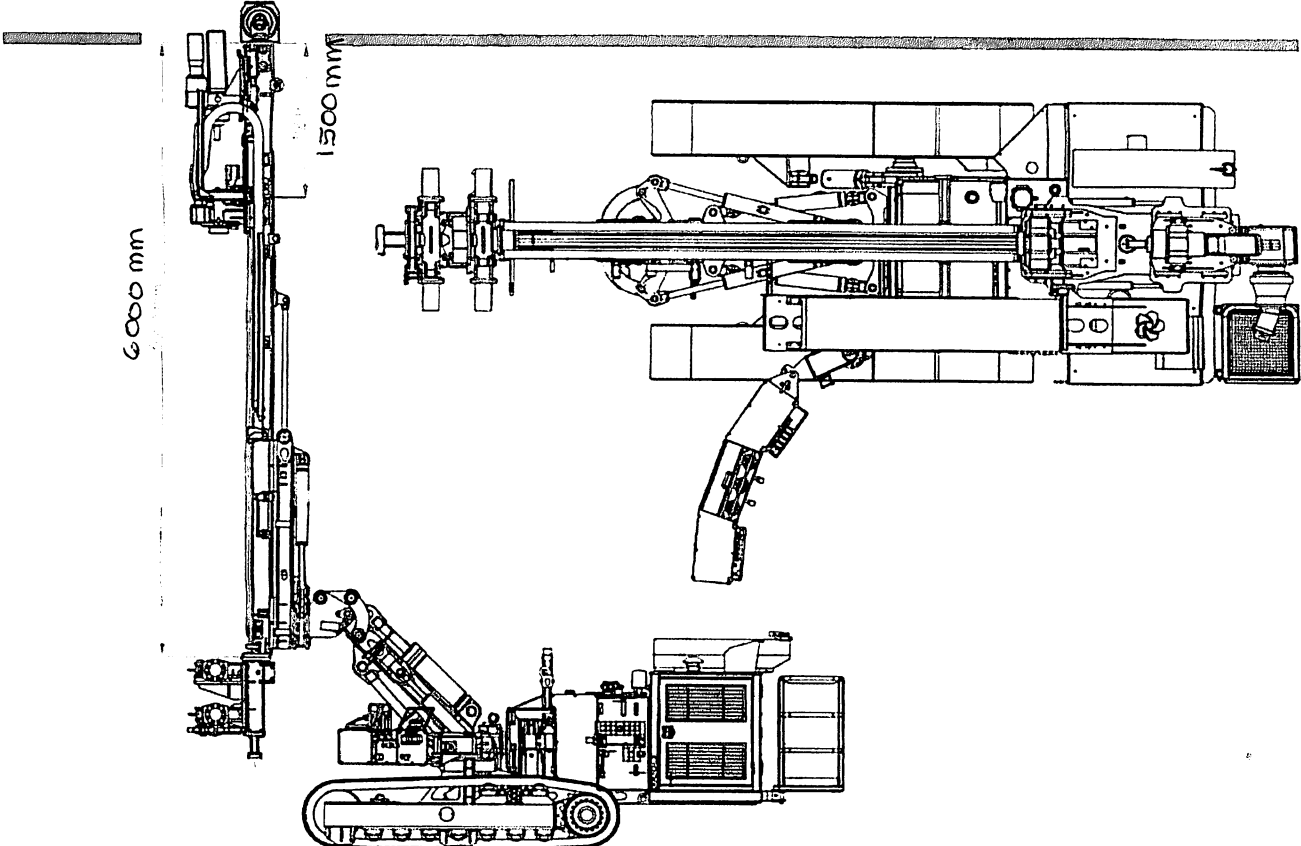
### CRAWLER MOUNTED DRILL RIG

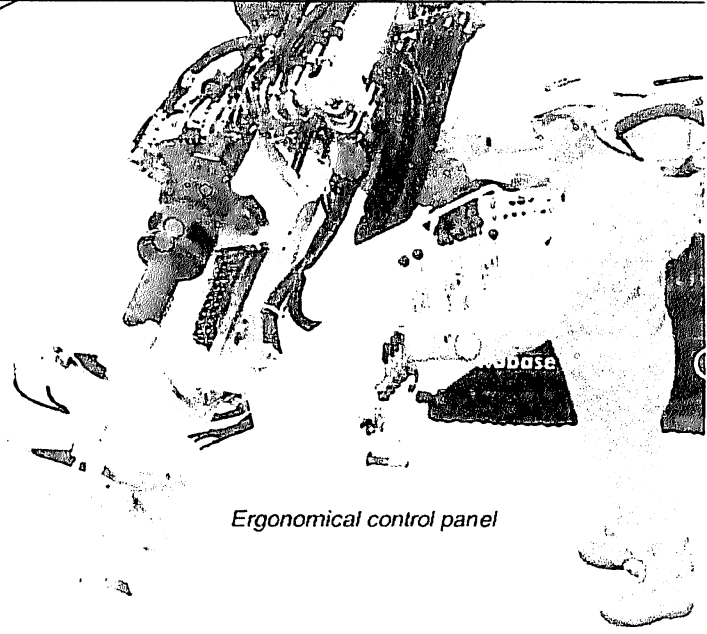
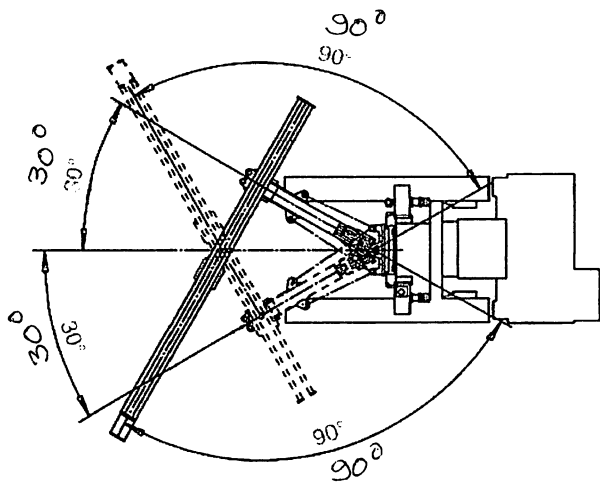
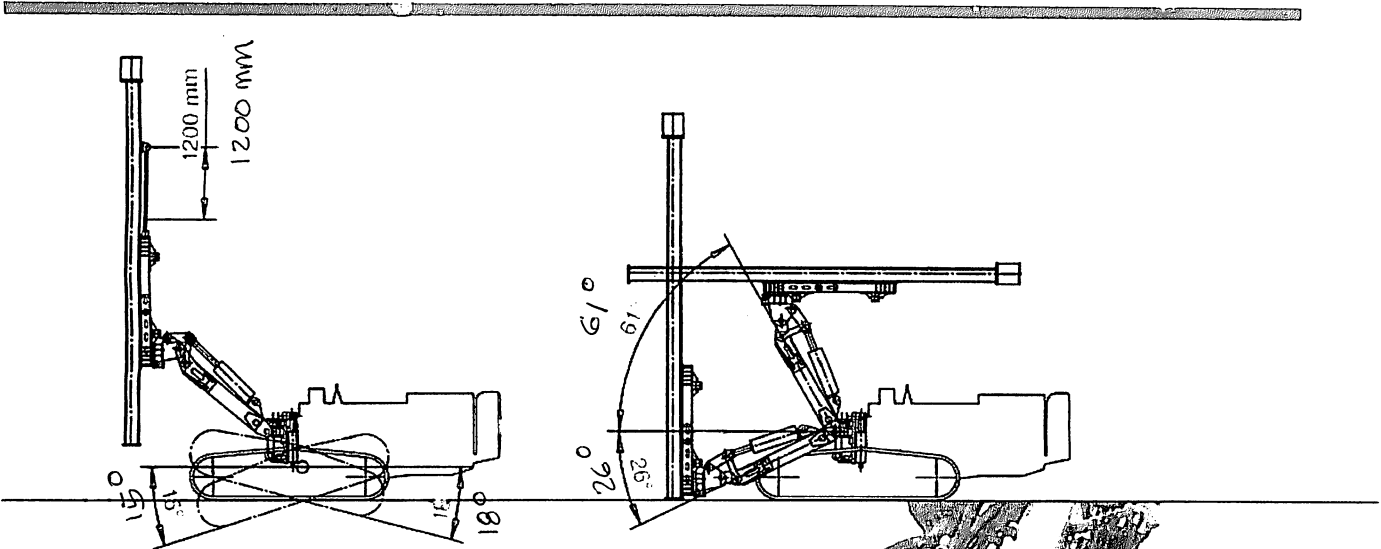
Consists of:

- DEUTZ TCD 2012 L06 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

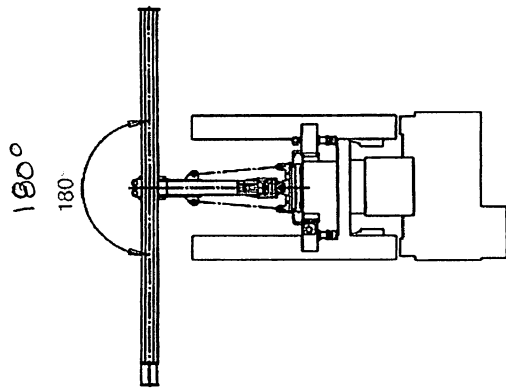


\* Dimensions and weights may vary depending on options and should be checked before carting or lifting.





Ergonomical control panel





# Technical Data Delta Base 102

<b>Prime mover</b>		
Standard unit	DEUTZ TCD2012 L06 2V	
Fuel	Diesel	
Fuel consumption	202 g/kWh	
Power max.	147kW @ 2300min <sup>-1</sup>	206 hp @ 2,300 rpm
Electrical circuit	24 V	
Tank capacity	260 l	68 gal

<b>Hydraulic system</b>		
Load sensing hydraulic system		
Main pump		
Flow rate max. Q1	300 l/min	80 gpm
Flow rate max. Q2	95 l/min	25 gpm
Gear pump		
Flow rate	25 l/min	6.6 gpm
	+40 l/min optional	+10.56 gpm optional
Pressure max.	250 bar	3,625 psi
Hydraulic oil volume	450 l	119 gal
Hydraulic cooling power	25 kW	34 hp

<b>Rotary heads</b>		
Torque max.	24 kNm	5,280 lbf-ft

<b>Hydraulic drifter</b>		
Torque max.	24 kNm	5,280 lbf-ft

<b>Double-head drilling system</b>		
Torque max.	24 kNm	5,280 lbf-ft

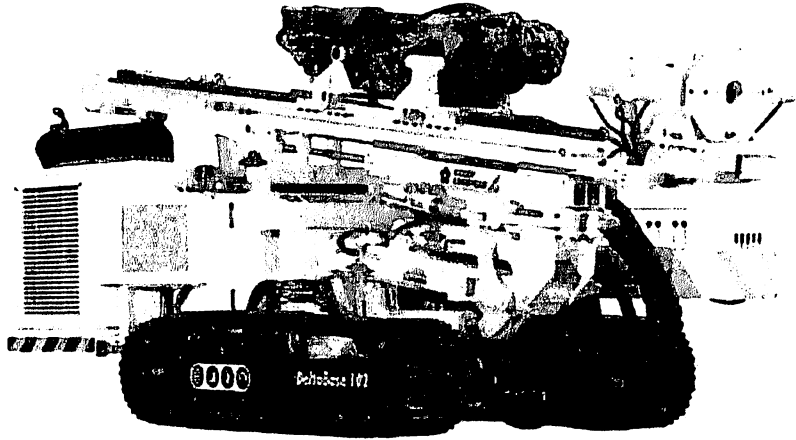
<b>Drill mast and feed system</b>		
Mast with gear feed		
Divided version		
Total length including extension	6.000 mm	236.22 in
Extension mast	1.500 mm	59.06 in
Feed stroke length, double-head	3.600 mm	12 ft
Feed speed-down	15 m/min	49 ft/min
Fast feed speed-up	50 m/min	164 ft/min
Fast feed speed-down	50 m/min	164 ft/min
Pull down force	100 kN	22,470 lbf
Pull back force	100 kN	22,470 lbf

<b>Clamping and breaking device</b>		
Max. diameter (standard)	254 mm	10 in
Clamping sizes	from Ø45 to Ø254 mm	from 1¾ to 10 in
Max. holding force	196 kN	44,045 lbf
Break-out torque, max. torque	25 kNm	18,300 lbf-ft

<b>Undercarriage</b>		
Type: B2	Pendulum crawler	
Pad width	450 mm	18 in
Oscillating	+18° / -15°	
Travelling speed	2.5 km/h	1.55 mph
Climbing capability max. (without additional winch)	37% (~20°)	
Track shoes	3 web steel track shoes	

### Advantages:

- Compact design
- Minimized center height
- Ergonomical control panel
- Control position with free view of the drilling
- Up-to-date load-sensing hydraulics
- Newly designed support for the articulation
- Compact double-head drilling unit
- Extendable drill mast



### Accessories (optional):

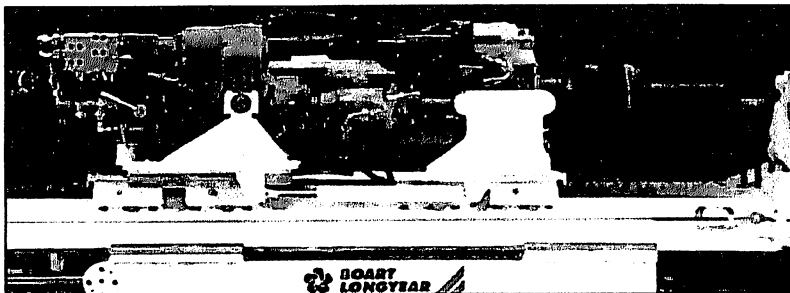
- Cable winch up to 35 kN pull
- Water pump delivering up to 200 l/min
- Compressed air lubricator for DTH hammer
- Rod handling system
- Loading crane
- Compressor
- Generator
- High pressure washing unit
- Jet grouting chuck up to 133 mm diameter
- Mast extensions up to 18 m total mast length (with geothermal articulation)

### Base unit:

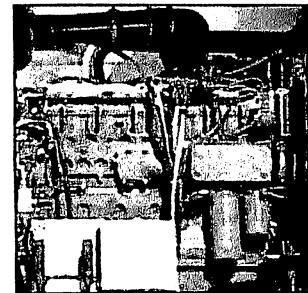
- DEUTZ BF6M2012C drive power unit group 6 cylinder
- Hydraulics module
- 24 V DC electrical system
- Power controlled piston pump with load sensing system
- Clamping and breaking devices for max. 254 mm casing (standard version)
- Rotary head / drifter / double-head drilling unit
- Pendulum undercarriage B2
- Towing coupling on the rig end

### At a glance:

- Length: 7170 mm
- Width: 2280 mm
- Height: 2710 mm
- Mast length (max): 6000 mm inclusive carrier extension
- Transport weight: 13,900 kg without drilling equipment
- Crawler carriage: Type B2



Newly designed double-head unit



DEUTZ Diesel with electronic-engine control (EMR)