



# DPI 1000 IN-SEAM DIRECTIONAL DRILL RIG

The DPI 1000 Drill rig is specifically designed to operate in explosive underground environments in directional in-seam drilling applications.

When combined with DPI's DDMS (Directional Drilling Management System), the system has the ability to track, guide and complete the most challenging requirements.

The DPI 1000 is ATEX certified and 100+ units are used around the world, including Australia, China, Russia, Ukraine, Poland, US, Mexico and South Africa.

The drill has a compact footprint mounted on tracks, a 1-piece integrated drilling unit and power pack. It is also available in optional modular format.

The DPI 1000 is designed to drill in-seam in excess of 1500m (CHD series RCS rods).

**NOTE** The DPI 1000 is designed to and has achieved drilling depths in excess of 1500m in geologically stable ground. Changes in geology and hole design will impact depth capacity.



DDMS, Directional Drilling Management System

Atex-Certified Flameproof Electrics



Tracks Tram Up To 3.4k/hr For Easy And Independent Rig Moves And Setup



Stingers That Enable Operation In 2-5m Seams



Chain Over Dual Cylinder Feed Frame For High Push / Pull And Fast Feed



# Specifications

Feed Frame	(metric)	(US imperial)
Type	Twin cylinder, chain drive	
Feed stroke	1800 mm	70.87 in
Push Force	227 kN	51,032 lbf
Pull Force	227 kN	51,032 lbf
Carriage speed	0-20 m/min	0 - 65.6 ft/min

Chuck & Rod Clamp	(metric)	(US imperial)
Type	Hydraulic open, spring close	
Max opening (with jaws)	114 mm	4.488 in
Max opening (without jaws)	132 mm	5.197 in
Number of jaws	9	
Axial Holding capacity	160 kN	35,969 lbf

Rotation Unit	(metric)	(US imperial)
Speed (Low)	200-744 rpm	
Speed (High)	250 - 1013 rpm	
Max Torque @ 300 bar (Low)	4042 Nm	2,981 lbf ft
Max Torque @ 300 bar (High)	3118 kN	2,300 lbf ft

Hydraulic System	(metric)	(US imperial)
Type	Axial piston	
Manufacturer	Rexroth	
Main pump	188 L/min @ 300 bar	41 gal/min @ 4,350 psi
Transmission pump	91 L/min @ 250 bar	20 gal/min @ 3,626 psi
Auxiliary pump	40 L/min @ 250 bar	8.8 gal/min @ 3,626 psi
Hydraulic tank	200 L minimum	8.8 gal



# Specifications

Electric Motor	(metric)	(US imperial)
Manufacturer	Toshiba	
Size & Type	90 kW (120.6 hp), certified flame proof	
Power requirements	1000V / 50 Hz	
* Can be designed to match underground power available		

Water pump	(metric)	(US imperial)
Manufacturer	FMC	
Model #	L1122SC	
Flow rate	318 l/min	70 gal/min
Discharge pressure	69 bar	1000 psi

Stingers	(metric)	(US imperial)
Horizontal load	175 kN	39,342 lbf
Vertical load	700 kN	157,366 lbf
Stroke	700 mm	27.56 in
* When utilizing extensions can operate in 2 - 5 m (6.5 - 16.4 ft) seams		





# Dimensions

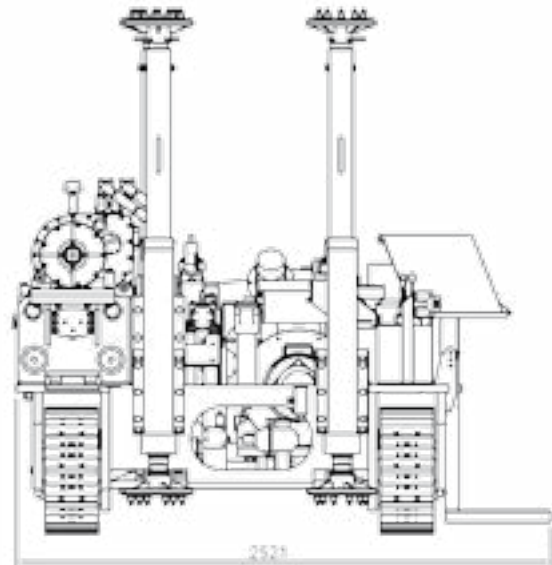
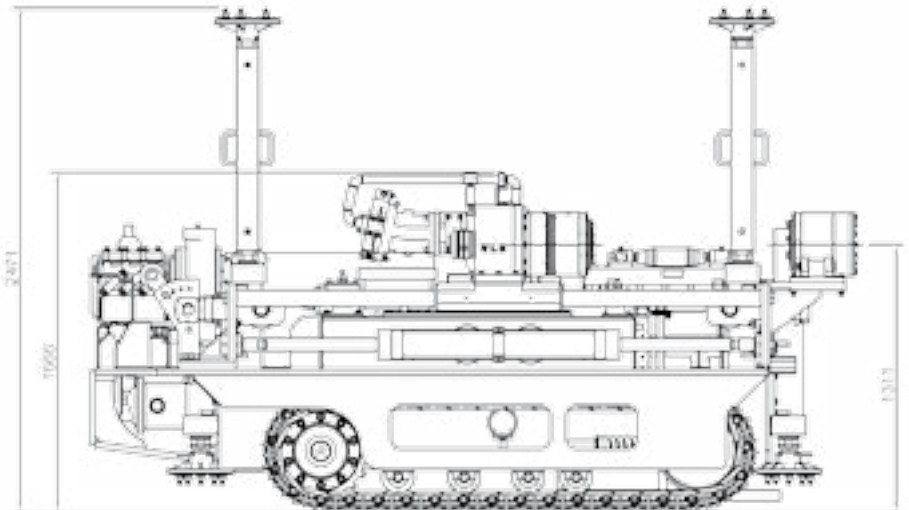
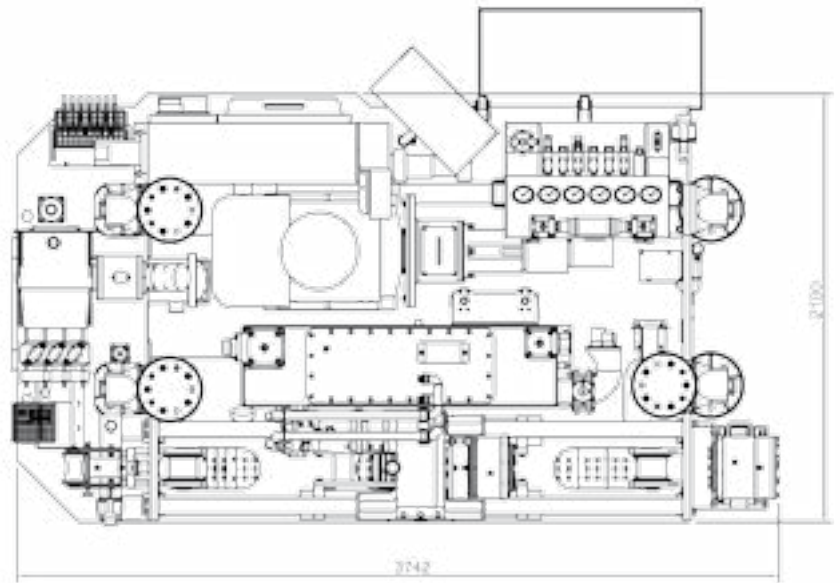
OVERALL WIDTH  
2053mm (80.8 in)

OVERALL LENGTH  
4000mm (157.5 in)

TOTAL HEIGHT  
1165mm (45.9 in)

WEIGHT  
12,500kg (27,558 lb)

WORKING HEIGHT IN SEAM  
2-5m (6.5 – 16.4 ft)





DPI is a global manufacturer of field-proven directional drilling equipment, including:

- + DDMS  
(Directional Drilling Management System)
- + Down Hole Motors
- + Bits and Hole Openers
- + RCS Rods
- + Drill Rigs
- + All Ancillary Equipment

We bring real-world experience and the means to deliver equipment on-demand to anywhere in the world.





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