







Flexible and powerful at your service

- Swiveling boom articulation by slew ring on the base machine enables parallel drilling on the tracks up to +/- 90°, slew ring on mast for +/- 180° rotation, along with the sliding mast operated by cylinder makes the machine able to perform a wide variety of angles and positions.
- Powered by the most advanced Stage V Deutz Diesel engines (Stage III version are also available).
- Range of rotary heads with different torques and speeds to suit the various drilling needs.



Safety First, No Compromise

Complies with the latest international Safety standards.

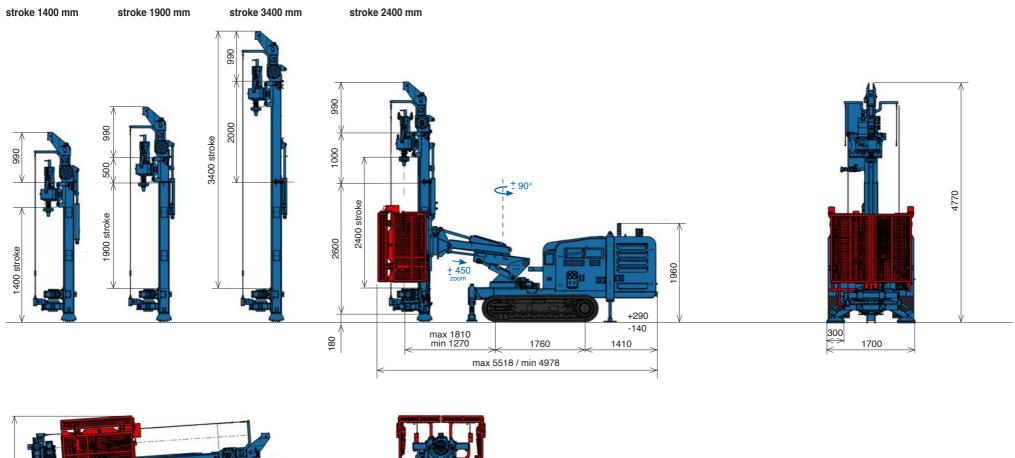
- Hydraulic openable cages
- Additional trip wires devices
- Emergency stop buttons
- ROM and SPM operation modes

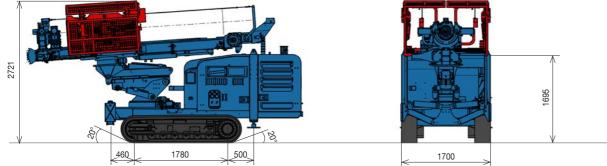


Excellent versatility and increased manoeuvrability

- Modular mast with motoreducer crowd system.
- Radio remote control for drilling, positioning and tramming or hydraulic/proportional panel mounted on pivotal support arm for drilling operations.
- The rig is fitted with proportional, hydraulic servo-assisted controls that make operations smooth.
- Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

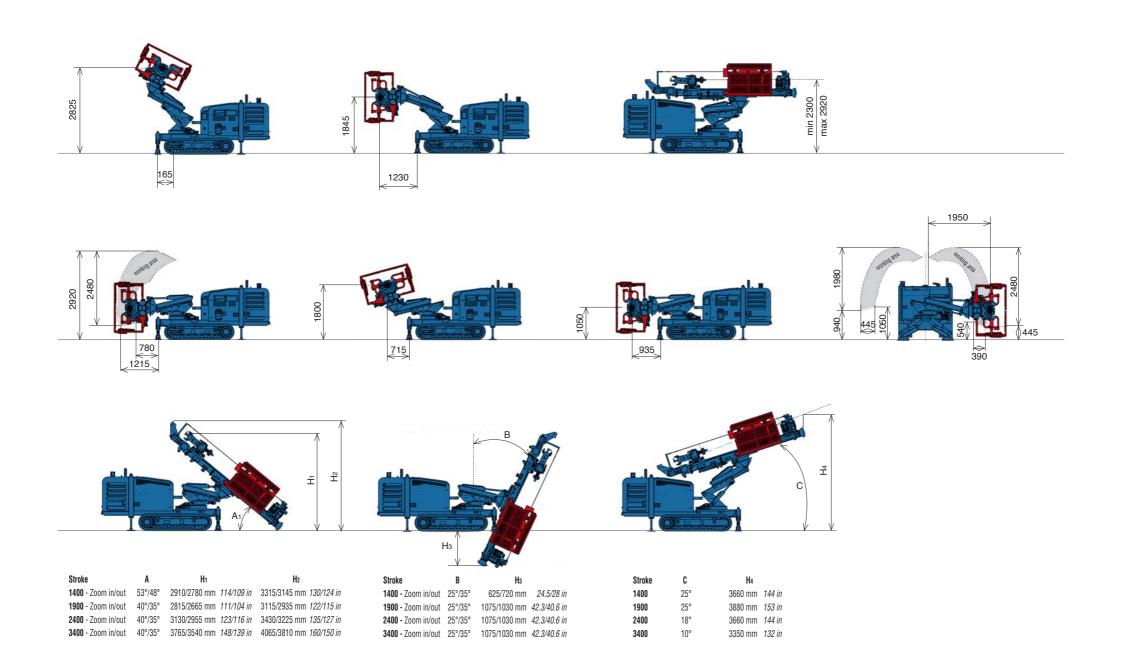
Working Configuration





Transport		
Transport width	1700 mm	66,9 in
Transport height (min-max) 1	2560 - 2700 mm	100,8 - 106,3 in
Transport length (min-max)	5260 - 5740 mm	207,1 - 226,0 in
Transport weight (min-max) ²	7000 - 7500 kg	15432 - 16535 lb

Movements



Technical data

Hydraulic System

Inner passage

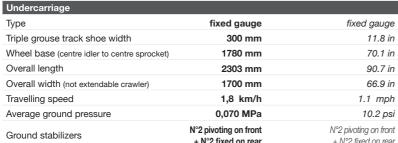
Main pumps: variable axial pumps

Auxiliary pumps: gear pumps

Hydraulic oil tank capacity

Undercarriage





Diesel





	+ N°2 fixed on rear	+ N°2 fixed on rear
Diesel Engine	Opti	on 1
Make and model	Deutz TCD3.6 L4	Deutz TCD3.6 L4
Emission certification ¹	EU stage V - US EPA Tier 4f	EU stage V - US EPA Tier 4f
Diesel engine power rating	100 kW @ 2000 rpm	134 HP @ 2000 rpm
Fuel tank capacity	160 I	42 US gal
AD Blue tank capacity	20 I	5 US gal
	Optio	n 2
Make and model	Deutz TCD3.6 L4	Deutz TCD3.6 L4
Emission certification	EU stage III - US EPA Tier 3	EU Stage III - US EPA Tier 3
Diesel engine power rating	100 kW @ 2000 rpm	134 HP @ 2000 rpm
Fuel tank capacity	160 I	42 US gal
¹ Tier 3 also available		

Hydraulic





Rotary	HR9F	HR9F	HT1700	HT1700
Gear box type	Double speed	Double speed	Double speed	Double speed
Maximum torque	785 daNm	5790 lbf*ft	1953 daNm	14405 lbf*ft
Maximum rotation	136 rpm	136 rpm	110 rpm	110 rpm
Inner passage	117 mm	4,6 in	134 mm	5,3 in
	HR16F	HR16F	HR16	HR16
Gear box type	Double speed	Double speed	Double speed	Double speed
Maximum torque	927 daNm	6837 lbf*ft	1570 daNm	11580 lbf*ft
Maximum rotation	230 rpm	230 rpm	136 rpm	136 rpm

117 mm

200 l/min

270 I

86 + 23 I/min

4,6 in

117 mm

	HR7G	HR7G	HR9F	HR9F
Gear box type	6 Speed	6 Speed	Double speed	Double speed
Maximum torque	696 daNm	5133 lbf*ft	785 daNm	5790 lbf*ft
Maximum rotation	862 rpm	862 rpm	136 rpm	136 rpm
Inner passage	56 mm	2,2 in	117 mm	4,6 in
	HR9F	HR9F	HR6G	HR6G
Gear box type	Double speed	Double speed	Double speed (+2 Man)	Double speed (+2 Man)
Maximum torque	785 daNm	5790 lbf*ft	664 daNm	4897 lbf*ft
Maximum rotation	136 rpm	136 rpm	305 rpm	305 rpm
Inner passage	117 mm	4,6 in	56 mm	2,2 in



Clamp & Hydraulic joint breaker	Option	n 1
Nominal size	50 - 220 mm	2,0 - 8,7 in
Maximum clamping force	141 kN	31698 lbf
Maximum breaking torque	3038 daNm	22407 lbf*ft
	Option	2-3
Nominal size (Option 2)	50 - 320 mm	2,0 - 12,6 in
Nominal size (Option 3)	50 - 360 mm	2,0 - 14,2 in
Maximum clamping force	141 kN	31698 lbf
Maximum breaking torque	4111 daNm	30321 lbf*ft



53 US gal/min

71 US gal

4,6 in

23 + 6 US gal/min

Hoist & Feed System	1 10101 011 0001

Service winch		
Туре	Controlled descent	Controlled descent
1°layer line pull	5 kN	1124 lbf
Rope diameter	6 mm	0,2 in
Rope speed	42 m/min	138 ft/min

Hoist & Feed System	Modular mast	
Туре	gear motor	gear motor
Feed Stroke (Option 1)	1400 mm	55,1 in
Feed Stroke (Option 2)	1900 mm	74.8 in
Feed Stroke (Option 3)	2400 mm	94.5 in
Feed Stroke (Option 4)	3400 mm	133.9 in
Max Hoist pull	52 kN	11690 lbf
Max Feed force	52 kN	11690 lbf

Technologies

TOP HAMMER		
Model	RH5X	RH5X
Weight	350 kg	772 lb
Maximum torque	435 daNm	3208 lbf*ft
Blow frequency @ Impact energy	2400/min @ 320 Nm	2500/min @ 369 lb*ft

DOUBLE ROTARY				
Model	RH200	RH200	RH4X	RH4X
Rotary type	Upper rotary for rods			
Maximum torque	210 daNm	1549 lbf*ft	500 daNm	3688 lbf*ft
Maximum rotation speed	150 rpm	150 rpm	128 rpm	128 rpm
Model	RH4X	RH4X	RH10X	RH10X
Rotary type	Lower rotary for casing			
Maximum torque	500 daNm	3688 lbf*ft	1100 daNm	8113 lbf*ft
Maximum rotation speed	128 rpm	128 rpm	58 rpm	128 rpm

JET GROUTING		
Max treatment depth in a single passage (min - max)	7 - 9 m	23 - 30 ft
Drillguide extensions	5,86 m	19 ft
Rod diameter	90 mm	3,5 in

Configurations

Base Machine	
Fixed undercarriage	
Upper frame complete with slew ring for 360° rotation	
Wired remote control for tramming only	
Full radio remote control	
7" LCD monitor for alarms & diesel engine control and DMS connectivity	
Hydraulic and proportional controls for all operations	
Mast extension kits	_
Auxiliary winch, 5 kN (1124 lbf)	
Clamp & breaker 50-220 mm (1.96 - 8.7 in)	0
Clamp & breaker 50-320 mm (1.96 - 12.6 in)	
Clamp & breaker 50-360 mm (1.96 - 14.26 in)	0
Fixed boom	0
Telescopic boom	
Kinematic mechanism - 90° joint	0
Kinematic mechanism - ± 180° motoreducer	•
Diesel engine EU Stage V - US EPA Tier 4f	_
Diesel engine EU S tage III - US EPA Tier 3	0
Load sensing hydraulic system	_
Hydraulic prearrangement for auxiliary pumps	_
Rotary cradle complete with pads and side shifting movements	_
Floating system for rotary head	0
Air/water system and line lubricator for DTH	0
Foam pump c/w gauge pressure and safety valve	0
Water & mud pumps	0
Centering device	0
Slow rotation kit and special protective mode	0
Hydraulic safety cage kit driven by cylinder	0
Lighting system on mast	0
Washing kit including with hose rewinder & washing lance	•
Fire extinguisher	•
Double rotary kit	0
Jet grouting kit, single fluid	0
Jet grouting kit, double fluid	0
Hydraulic chuck complete with gauge pressure and safety device	0
Extension for jet grouting	0
Fully hydraulic version prearrangement for Jet Grouting	0
Full radio version prearrangement for Jet Grouting	0
Hydraulic pump for foam 30 l/min @ 150 bar (7.9 gallon @ 2176 psi)	0
Triplex pump for water flushing 200 I/min @ 80 bar (52.8 gallon @ 1160 psi)	0
RH200 Top hammer Kit and prearrangement	0
RH4x Top Hammer Kit and prearrangement	0
RH10x Top Hammer Kit and prearrangement	0
Start & Slow engine control for radio remote version	•
Start & Slow engine control for hydraulic version	0





