





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





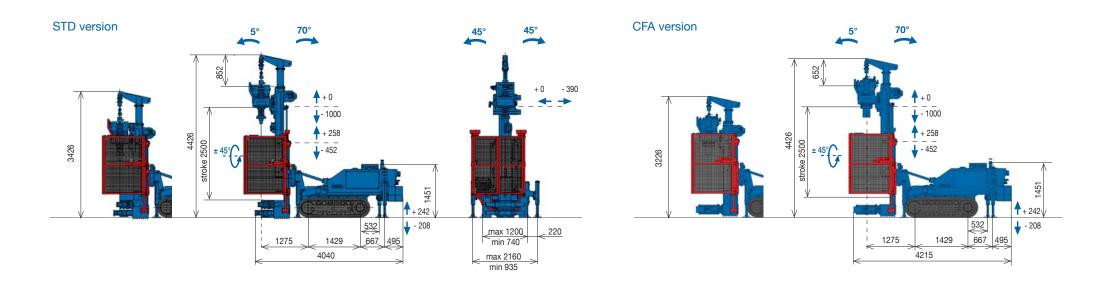
Flexible and powerful

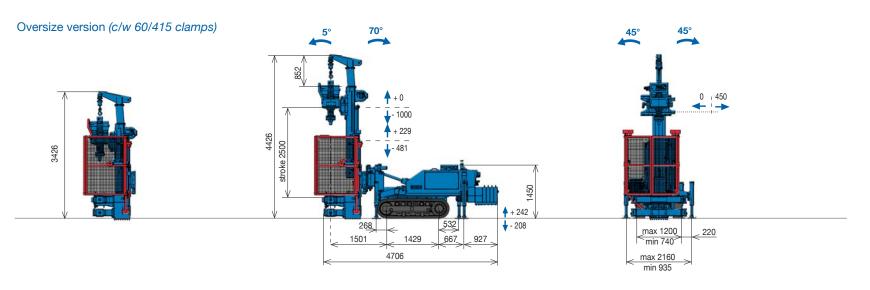
- CFA up to 610 mm (24 in) diameter, easily convertible in standard micropile version
- Powered by the most advanced Stage V Cummins Diesel engines that delivers 115 kW (154 HP).
- Range of rotary heads with different torques and speeds up to 3348 daNm

Excellent handling

- Separate power pack with 20-150 m (65-164 ft) hydraulic hoses connections
- Radio remote control for drilling, positioning and tramming
- Rig minimum width 740 mm (29 in), 935 mm (36.8 in) with cages installed
- Telescopic mast for a minimum height < 3500 mm (137.8 in)

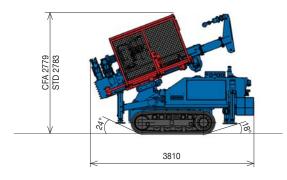
Working Configuration

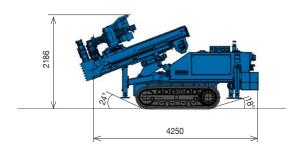




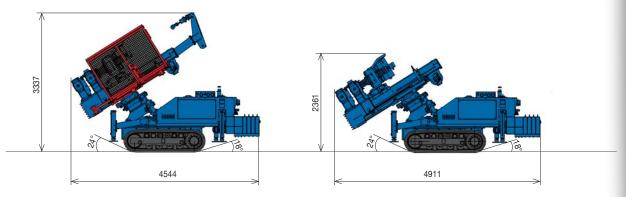
Transport

STD / CFA version





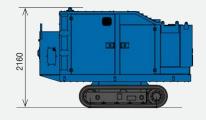
Oversize version (c/w 60-415 clamps)



Transport	standard ¹			oversize ²
Transport width ³	1572 mm	61. 9 in	1716 mm	67.5 in
Transport weight ⁴	6550 kg	14440 lb	8200 kg	18078 lb
Safety guards weight	230 kg	507 lb	230 kg	507 lb
Cathead weight	65 kg	143 lb	65 kg	143 lb

- 1 c/w winch & safety cage, same data for CFA version
- 2 c/w winch, safety cage & aux cwt 3 Compact version width is 740 mm (29 in)
- 4 Compact version weight should be reduced by cat head & safety cage

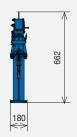
Power Pack



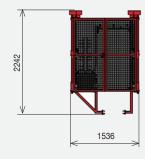


Cathead





Safety cage





Transport Power Pack ¹		
Transport width	1180 mm	46.5 in
Transport height	2160 mm	85 in
Transport length	3344 mm	131.7 in
Transport weight	4000 kg	8818 lb

¹ Stage V Cummins version

Technical data

Fuel tank capacity

AD Blue tank capacity

Undercarriage









POWER PACK			
Flexible hoses lenght & electrical v	vire 30 - 50 m	98 - 164 ft	
Undercarriage			
Туре	fixed gauge	fixed gauge	
Triple grouse track shoe width	250 mm	9.8 in	
Wheel base (centre idler to centre spro	ocket) 1460 mm	57.5 in	
Overall length	1940 mm	76.4 in	
Overall width (not extendable crawler)	1180 mm	46 in	
Travelling speed	2,0 km/h	1.2 mph	
Average ground pressure	0,050 MPa	7.3 psi	
Diesel Engine	Option 1		
Make and model	Cummins F3.8	Cummins F3.8	
Emission certification	EU stage V - US EPA Tier 4f	EU stage V - US EPA Tier 4f	
Diesel engine power rating	115 kW @ 2200 rpm	57.5 in	

Diesel Engine	Optio	on 2
Make and model	Deutz TCD2013 L04 2V	Deutz TCD2013 L04 2V
Emission certification	EU stage III - US EPA Tier 3	EU Stage III - US EPA Tier 3
Diesel engine power rating	116 kW @ 2000 rpm	155 HP @ 2200 rpm
Fuel tank capacity	200 I	53 US gal

200 I

38 I

BASE MACHINE		
Undercarriage		
Туре	variable gauge	variable gauge
Triple grouse track shoe width	220 mm	8.7 in
Wheel base (centre idler to centre sprocket)	1430 mm	56.3 in
Overall length	1952 mm	76.9 in
Overall width (retracted/extended)	740 - 1200 mm	29.1 - 47.2 in
Travelling speed	2,0 km/h	1.2 mph
Average ground pressure	0,110 MPa	16.0 psi
Ground stabilizers	N°2 rotable on front + N°2 ext. on rear	N°2 rotable on front + N°2 ext. on rear





46 in

1.2 mph

Hydraulic System		
Main pumps: variable axial pumps	200 I/min	53 US gal/min
Auxiliary pumps: gear pumps	86 + 32 I/min	23 + 8 US gal/min
Hydraulic oil tank capacity	403 I	106 US gal

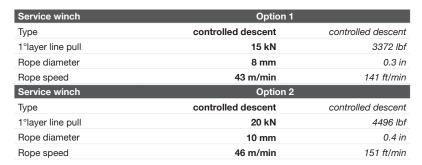
HT3400	HT3400
3 gears/variable	3 gears/variable
3348 daNm	24694 lbf*ft
58 rpm	58 rpm
134 mm	5.3 in
HT1700	HT1700
3 gears/variable	3 gears/variable
1675 daNm	12354 lbf*ft
116 rpm	116 rpm
134 mm	5.3 in
HR9F	HR9F
2 gears/variable	2 gears/variable
700 daNm	5163 lbf*ft
136 rpm	136 rpm
117 mm	4.6 in
	3 gears/variable 3348 daNm 58 rpm 134 mm HT1700 3 gears/variable 1675 daNm 116 rpm 134 mm HR9F 2 gears/variable 700 daNm 136 rpm





Clamp & Hydraulic joint breaker	Optio	on 1
Nominal size	50 - 320 mm	2.0 - 12.6 in
Maximum clamping force	141 kN	31698 lbf
Maximum breaking torque	4111 daNm	30321 lbf*ft
Clamp & Hydraulic joint breaker	Optio	on 2
Nominal size	50 - 320 mm	2.0 - 12.6 in
Maximum clamping force	196 kN	44062 lbf
Maximum breaking torque	4680 daNm	34518 lbf*ft
Clamp & Hydraulic joint breaker	Optio	on 3
Nominal size	60 - 415 mm	2.4 - 16.3 in
Maximum clamping force	237 kN	53279 lbf
Maximum breaking torque	4660 daNm	34370 lbf*ft







Hoist & Feed System	Option 1	
Туре	cylinder	cylinder
Feed Stroke ¹	1500 mm	59 in
Maximum Hoist pull	70 kN	15736 lbf
Maximum Feed force	47 kN	10566 lbf
Side shifting movement ²	390 mm	15.4 in

¹ rotary stroke: 2500 mm (98.4 in), using 1500 mm (59 in) Hooist and Feed cylinder + 1000 mm (39.4 in) mast stroke 2 450 mm (17.7 in) option for oversize version

Technologies

TOP HAMMER		
Model	RH4X	RH4X
Weight	200 kg	441 lb
Maximum torque	500 daNm	3688 lbf*ft
Blow frequency @ Impact energy	2500/min @ 320 Nm	2500/min @ 236 lb*ft

Configurations

Power Pack	
Diesel engine EU Stage V - US EPA Tier 4f	•
Diesel engine EU S tage III - US EPA Tier 3	0
Fixed undercarriage	•
2 grouse track shoes	•
Rubber track shoes	0
Wired remote control for tramming only	•
Hydraulic hoses and electrical cable 30 m (98.4 ft)	•
Hydraulic hoses and electrical cable 50 m (164 ft)	0
Hydraulic bio-oil	0
RH4X top hammer - percussion kit	0
Fire extinguisher	•
Washing kit including with hose rewinder & washing lance	0
Base Machine	
Variable gauge undercarriage	•
3 grouse track shoes	•
Rubber track shoes	•
Ground stabilizers: 2 rotable on front + 2 manually extendable on rear	•
Ground stabilizers foot oversized	0
Full radio remote control	0
Hydraulic controls on machine sides for emergency mode	•
Upper frame complete with slew ring for 360° rotation	
Auxiliary winch 15 kN (3372 lbf)	
Rotating jib kit	0
Auxiliary winch 20 kN (4496 lbf)	0
Clamp & breaker 50-320 mm (1.96 - 12.6 in)	0
Clamp & breaker 50-320 mm (1.96 - 12.6 in) heavy version	•
Clamp & breaker 60-415 mm (2.4 - 16.3 in)	0
Centering reductions ranging from D76 to D274 (3 in to 10.8 in)	0
Kinematic mechanism - Fixed swiveling boom	0
Kinematic mechanism - ± 50° joint swiveling boom	0
Kinematic mechanism - Counter slide with slew ring for ± 45° mast rotate in CFA	
	0
Rollers kit for concrete pipe	
Load sensing hydraulic system	
Hydraulic prearrangement for auxiliary pumps	
Rotary cradle, complete with pads, wich can be shifted by an hydraulic cylinder, 390 mm (15.3 in) stroke	
Rotary cradle 450 mm (17.7 in) stroke	0
Floating system for rotary head	0
Air/water system and line lubricator for DTH	0
Prearrangement for "Lutz dialog"	0
Inclinometer kit	0
Foam pump c/w gauge pressure and safety valve	•
Washing kit c/w hose rewinder & washing lance	0
Water & mud pumps	0
Centering device	0
Slow rotation kit and special protective mode	•
Machine lifting kit	0
Hydraulic safety cage kit driven by cylinder	•
Lighting system on mast	•
Start & Slow engine control for radio remote version	•
Rod connection types ranging from 2" 3/8 A.R. to 4" 1/2 A.R.	0





