

HR 180 "CP version"



The **HR 180** is one of our most sold models because of its versatility and adaptabilityto many different applications such as:

- Drilling with augers or buckets
- Execution of drilling casings directly with rotary and by casing oscillator
- Continuous Flight Auger (CFA)
- Diaphragm Walls
- Execution of Double Head drilling

The **HR 180** is available in two versions:

HR 180 CP – the standard version is equipped with a pull-down cylinder which applies its force on the rotary and allows a rotary stroke of 5.100 mm (17 ft) approx. It is mainly used for drilling large diameter bore holes. The HR 180 CP uses a parallelogram system of articulation.

HR 180 THD – available upon request, the THD system moves the rotary by utilizing the winch, allowing the rotary a longer stroke along the mast, 10.000 mm (33 ft) approx. The THD version is particularly useful for driving and extracting casing tubes directly by the rotary and, without a doubt, increasing your daily productivity.

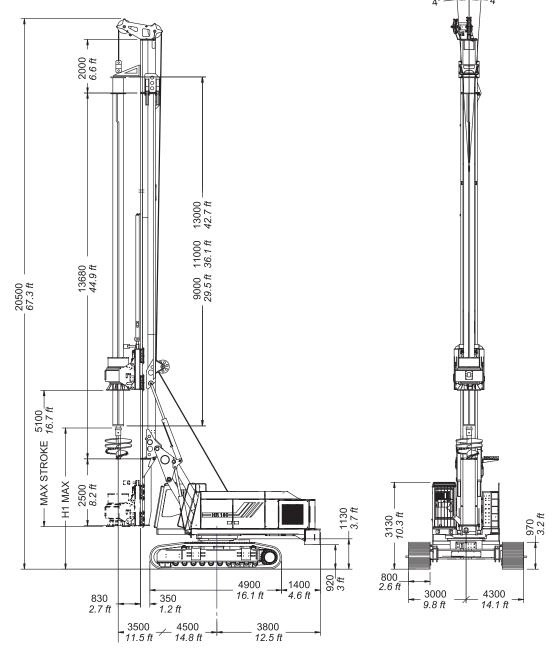
The HR 180 drilling rig base is already predisposed for all the various works listed above.

	Working Ondracteristics	
Works with Augers & Buckets:		
Max diameter with casing	1.600 mm	5.2 ft
Without lower mast extension	2.000 mm	6.5 ft
Depths	30 - 40 - 50 - 60 m	98.5 - 131 -164 - 197 ft
Casing Oscillator:		
Max. diameter	1.600 mm	5.2 ft
Works with CFA:		
Max diameter	1.200 mm	4 ft
Depths	19 + 5 m	62 + 16 ft
Diaphragm Walling:		
Max size	1.000 x 3.000 mm 3.3 x 9.5	
Depths	32 m 105 ft	
Jet Grouting		
Max depth	32 m	105 ft

Working Characteristics

CP version





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Rotary:			
Nominal torque	233 KNm	171,900 lbsft	
Rotary nominal pulldown	180 KN	40,500 lbs	
Unloading speed	150 rpm		
Rotary stroke	5.100 mm	16.7 ft	
Winches:			
Main winch nominal pullback	180 / 230** KN	40,500 / 51,750** lbs	

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Auxiliary winch nominal pullback	80 KN	18,000 lbs	
Diesel Engine:	CATERPILLAR C9 ACERT		
Power	242 KW	325 HP	
Hydraulic oil tank	800 liters	211 gal	
Fuel Tank	430 liters	114 gal	
Expandable Crawlers:			

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03/2013 All technical data are to be considered as approximate. MAIT reserves the right to modify them opportunely. All numbers shown in feet and inches have been rounded and are approximate for the simplification of conversion. The nominal values are referred to 100% total efficiency.

Length	4.900 mm	16.1 ft
Width	3.000 - 4.300 mm	9.8 ft - 14.1 ft
Shoes	800 mm	2.6 ft
Approx. Weight:	57 - 60 tons	128,600 - 132,500 lbs

** on request

