

HR 180

“CP version”



The **HR 180** is one of our most sold models because of its versatility and adaptability to 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 Characteristics

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
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Works with CFA:

Max diameter	1.200 mm	4 ft
Depths	19 + 5 m	62 + 16 ft

Diaphragm Walling:

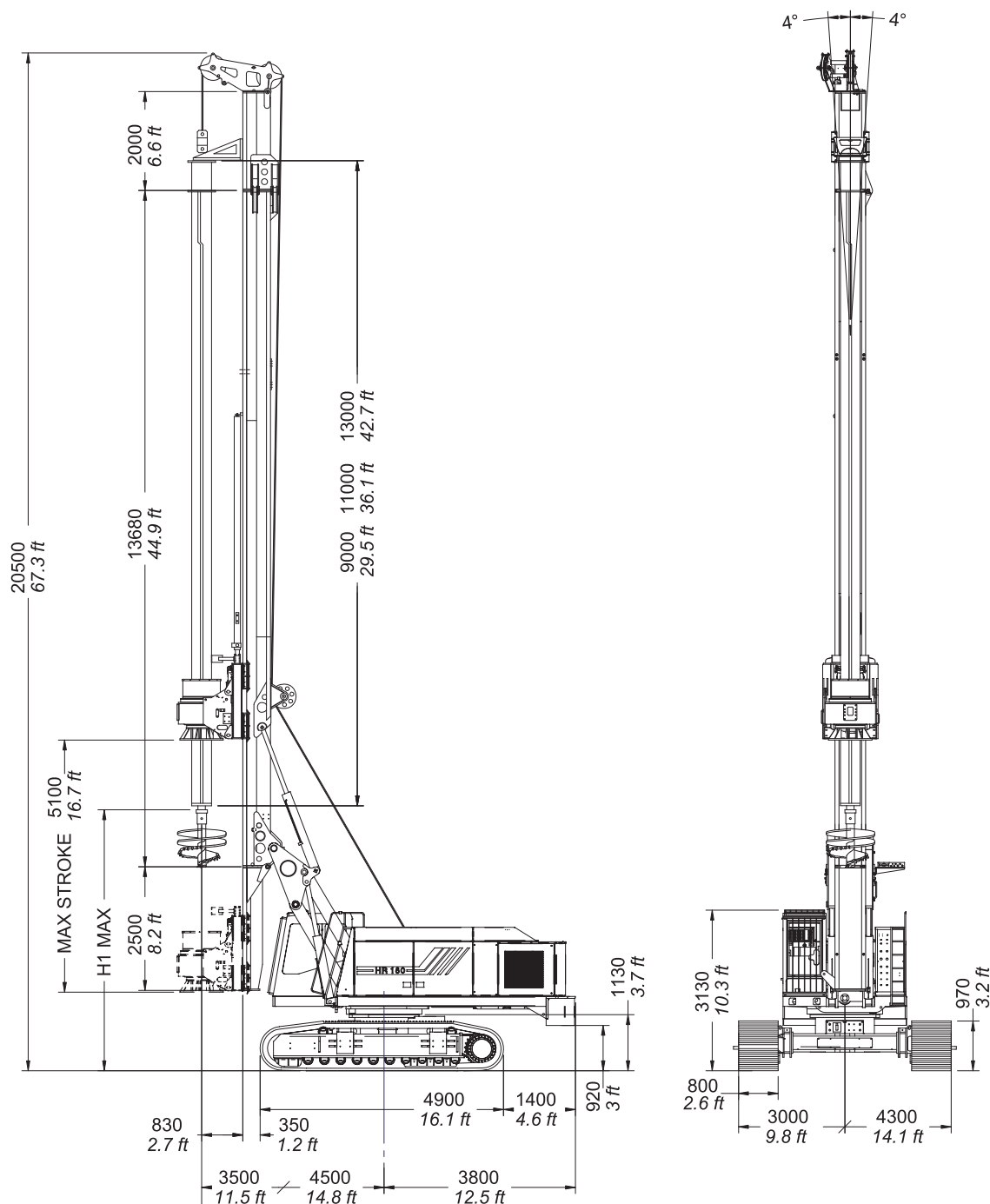
Max size	1.000 x 3.000 mm	3.3 x 9.5 ft
Depths	32 m	105 ft

Jet Grouting

Max depth	32 m	105 ft
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CP version



Technical Data

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
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:

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
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** on request

MAT S.p.A. DRILLING RIGS

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"THD version"



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Depths	19 + 5 m	62 + 16 ft

Diaphragm Walling:

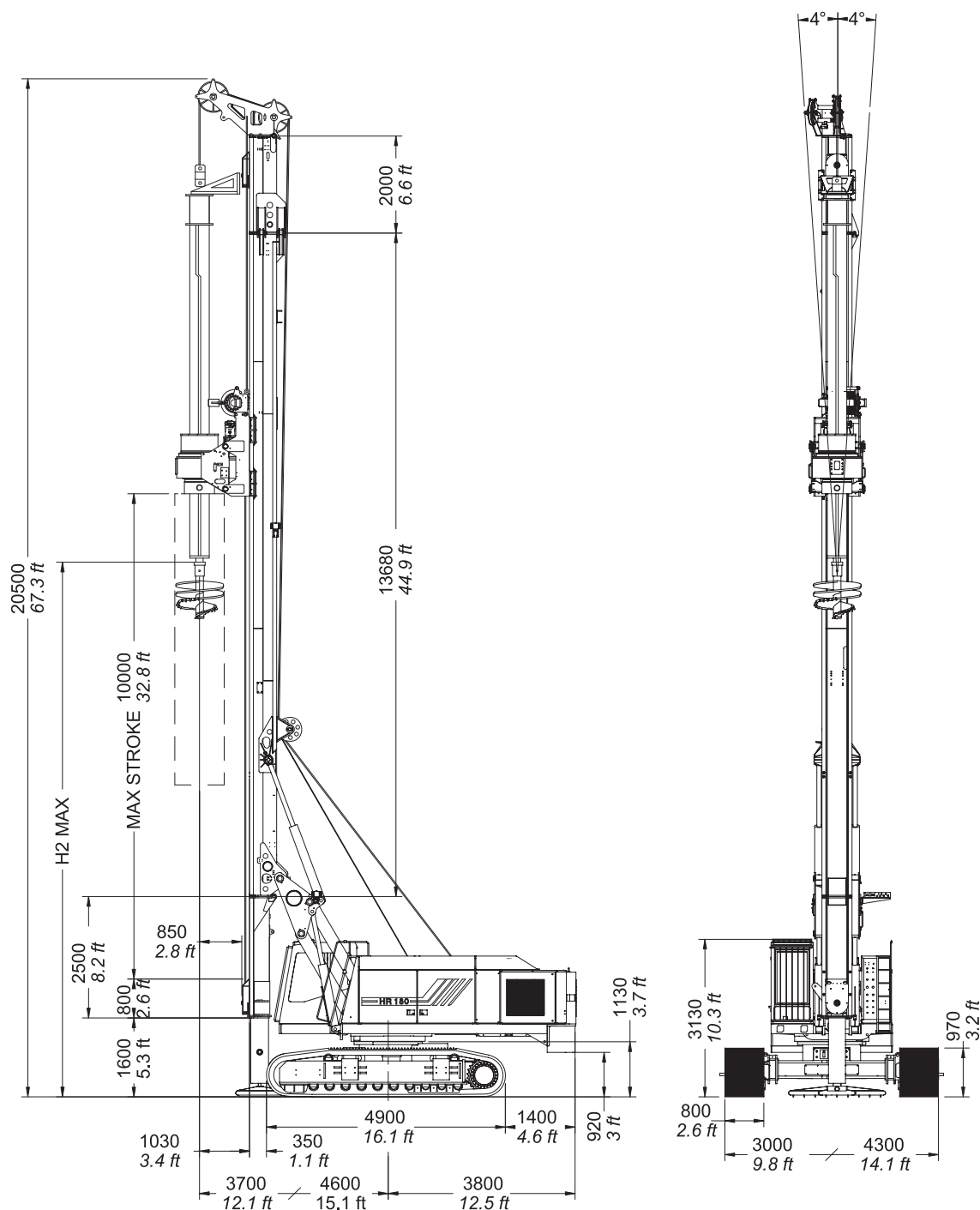
Max size	1.000 x 3.000 mm	3.3 x 9.5 ft
Depths	32 m	105 ft

Jet Grouting

Max depth	32 m	105 ft
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THD version



Technical Data

Rotary:

Nominal torque	233 KNm	171,900 lbsft
Rotary nominal pulldown	180 KN	40,500 lbs
Unloading speed	150 rpm	
Rotary stroke	10.000 mm	32.8 ft

Winches:

Main winch nominal pullback	180 /230** KN	40,500 / 51,750** lbs
Auxiliary winch nominal pullback	80 KN	18,000 lbs

Diesel Engine:

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Power	242 KW	325 HP
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