

CH 450 LHR

Low Head Room



High Tech Line



COMACCHIO
DRILLING HI-TECH

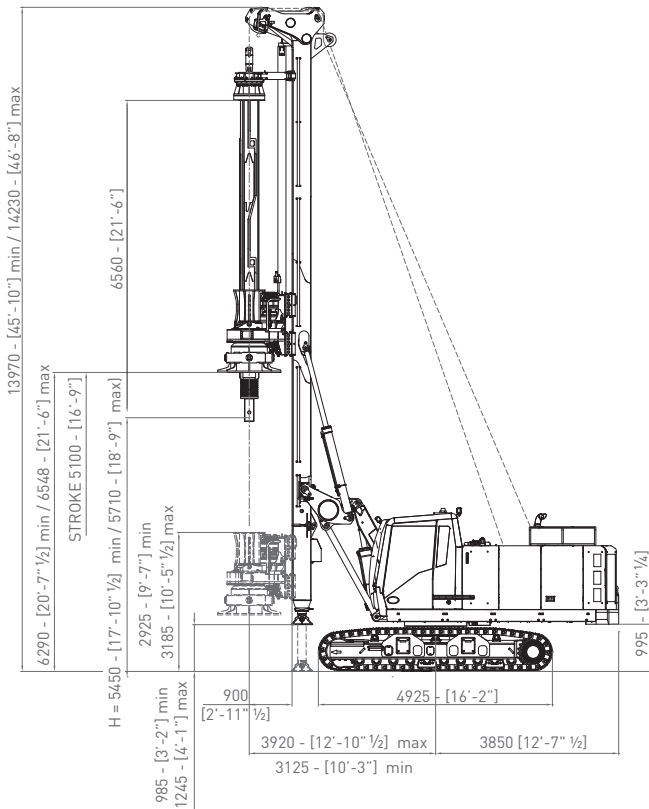
Self-Erecting Hydraulic Piling Rig

CH 450 LHR

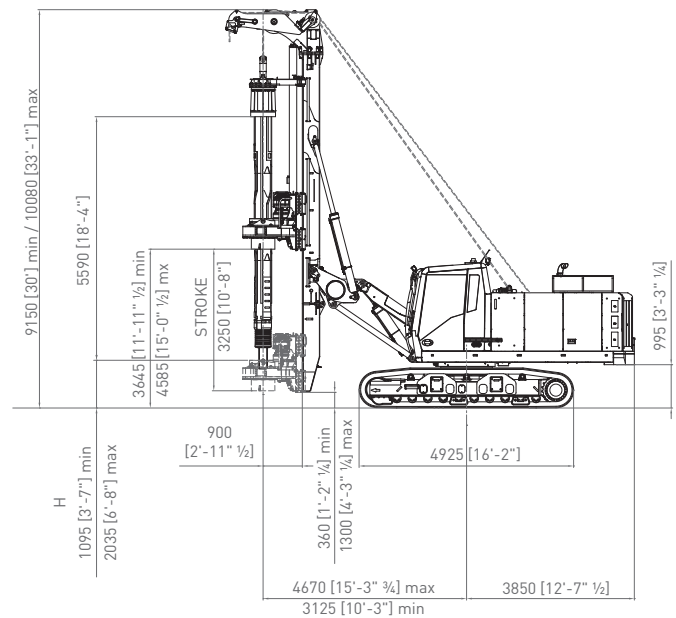
Technical Data

Undercarriage		
Type	Variable gauge, telescoping side frames	
Track shoe width	600 mm / 23" ½	800 mm / 31" ½
Track shoe type	Triple grouser	
Overall width (retracted side frames)	2.550 mm / 8' 4" ½	2.950 mm / 9' 8" ¼
Overall width (extended side frames)	4.000 mm / 13' 1" ½	4.200 mm / 13' 9" ¼
Overall length	4.925 mm / 16' 2"	
Centre idler to centre sprocket	4.100 mm / 13' 5" ½	
Upperframe		
Width	2.550 mm / 8' 4" ½	
Operators' cabin	TOPS & FOPS-1 certified, 980 mm (3' 3") wide	
Control system type	CAN-BUS	
User interface	12" Touch Screen	
Tail swing radius	3.865 mm / 12' 8"	
Diesel engine		
	<i>High Tech Line</i>	
Make and model	Cummins QSB6.7	
Emission certification	EU stage IV / US EPA Tier 4f	EU stage IIIA / US EPA Tier 3
Power rating	201 kW (270 HP) / 2000 rpm	
Fuel consumption rate (100% power, rated speed)	202 g/kWh - 0.332 lb/hp-hr	222 g/kWh - 0.365 lb/hp-hr
Average fuel consumption approx.	31,5 l/hr / 8.3 gal/hr	34,5 l/hr / 9.1 gal/hr
Fuel tank	500 l / 135 gal	
Sound pressure level in cabin (EN 16228-1, Annex B)	L _{P,A} 82 dB (A)	
Sound power level (2000/14/EC - EN 16228-1, Annex B)	L _{W,A} 108 dB (A)	
Hydraulic system		
Main pumps flow	2 x 214 l/min / 2 x 56.5 gal/min	
Third pump flow	160 l/min / 42.3 gal/min	
Main winch		
1 st layer line pull	160 kN / 35,970 lbs	
1 st layer rope speed	75 m/min / 246 ft/min	
Rope diameter	24 mm / 15/16"	
Rope layers	2	
Rotary head		
Max torque	190 kNm / 140,000 lb-ft at 33 MPa / 4,800 psi	
Max drilling speed	51 rpm	
Hydraulic power	155 kW / 208 hp	
Spin-off speed	125 rpm	
Service winch		
	Controlled descent	Free fall
1 st layer line pull	72 kN / 16,200 lbs	
Rope diameter	18 mm / 11/16"	
Useful rope length with 1 / 2 / 3 / 4 full layers	17 - 39 - 62 m 56' - 128' - 203'	13 - 31 - 51 - 73 m 42' 8" - 101' 8" - 167' 4" - 239' 6"
FEM classification	M5 - L2 - T5	M6 - L3 - T5

14 m / 46'



9 m / 30'



CH 450 LHR (Low Head Room)	9 m / 30'	14 m / 46'
Minimum overall height (at max working radius)	9150 mm / 30'	13.970 mm / 45' 10"
Max kelly bar length	5,5 m / 18'	8,0 m / 26' 3"
Pull down cylinder stroke	3,25 m / 10' 8"	5,10 m / 16' 9"
Max pile diameter	1.800 mm / 5' 11"	
Max pile depth c/w 4-element kelly bar	18,80 m / 61' 8" ⁽¹⁾	28,80 m / 94' 6" ⁽²⁾
Max pile depth c/w 5-element kelly bar	23,15 m / 75' 11" ⁽¹⁾	35,80 m / 117' 5" ⁽²⁾

Note

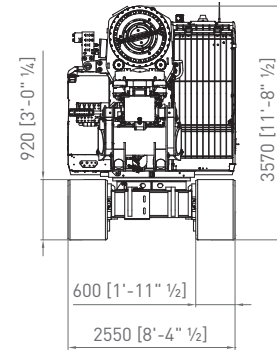
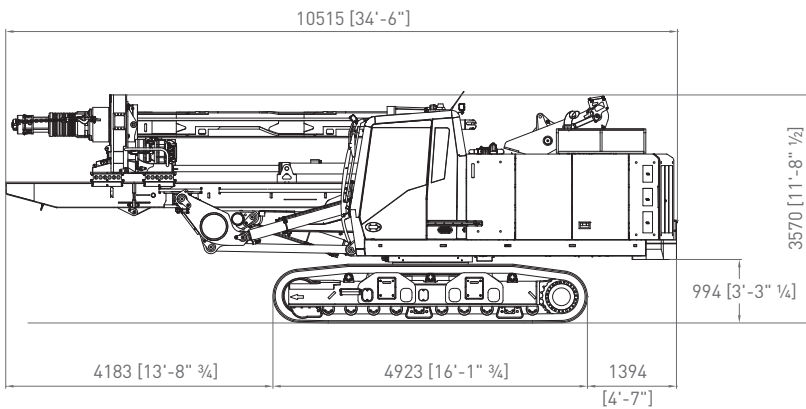
(1) Tools height 1 m (3' 3")

(2) Tools height 1,85 m (6' 11")

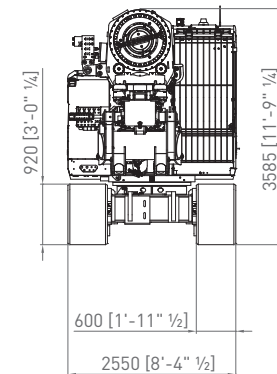
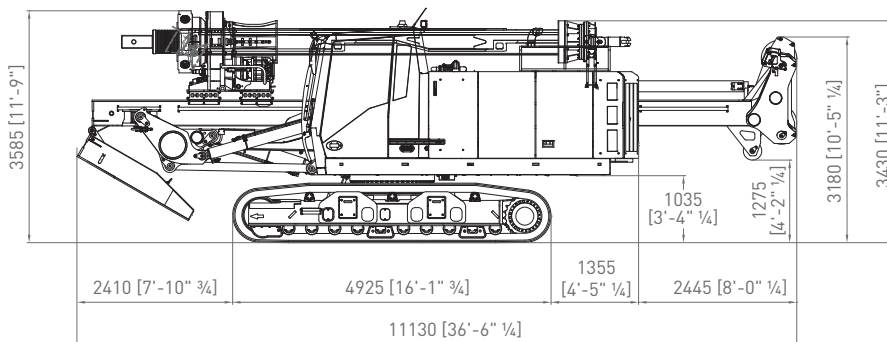
CH 450 LHR

Overall dimensions

9 m / 30'



14 m / 46'



Weights and dimensions	9 m / 30'	14 m / 46'
Transport width	2.550 mm / 8' 4" 1/2	
Transport height	3.570 mm / 11' 18" 1/2	3.585 mm / 11' 9"
Transport length	10.515 mm / 34' 6"	11.130 mm / 36' 6"
Transport weight	40.100 kg / 88,400 lbs	41.300 kg / 91,050 lbs ⁽¹⁾

Note

(1) c/w 4 x 5,5 m [4 x 18'] kelly bar



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