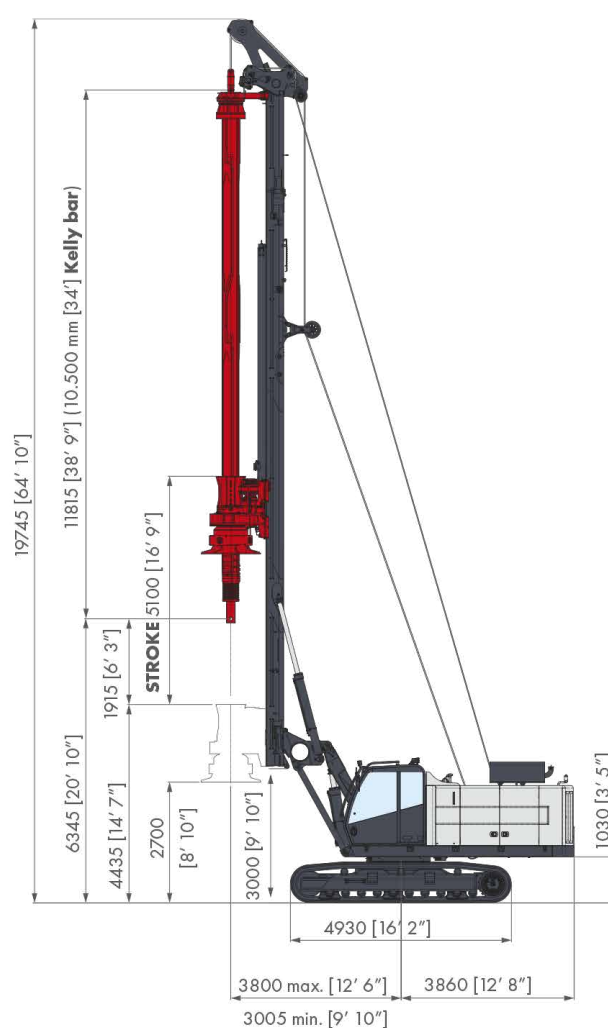
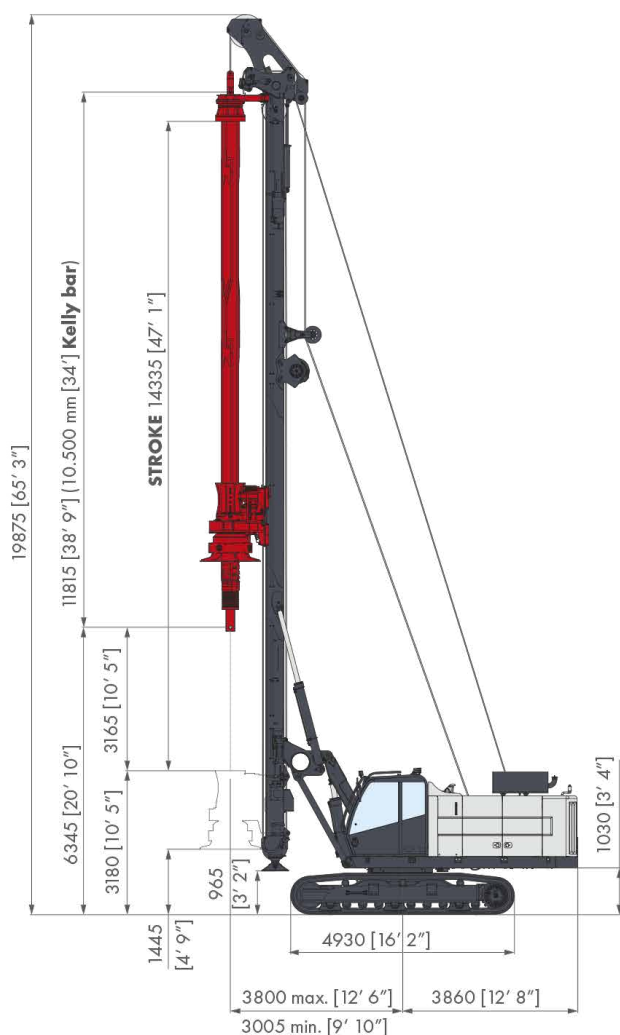


CH 18



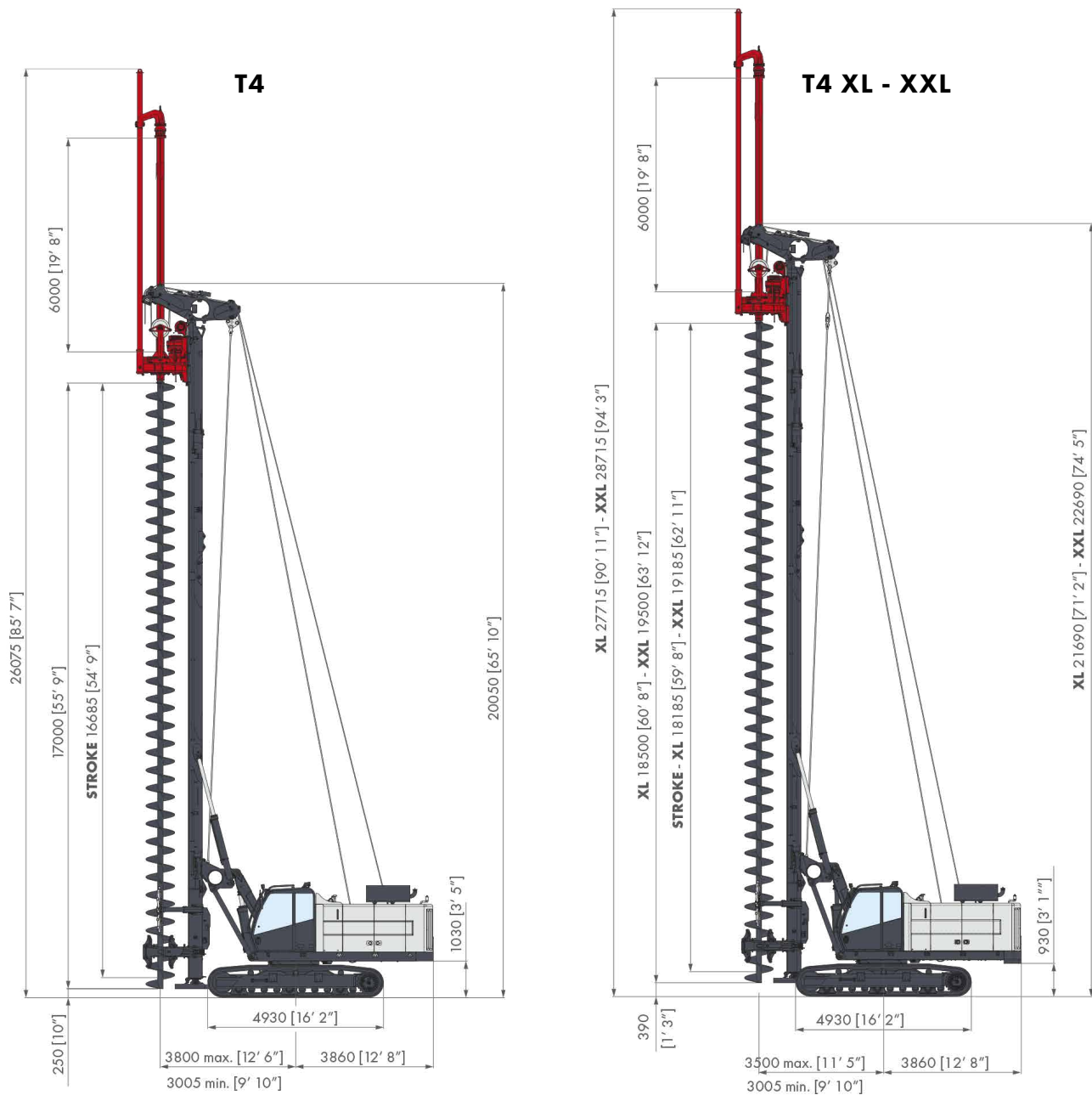
WS

CS



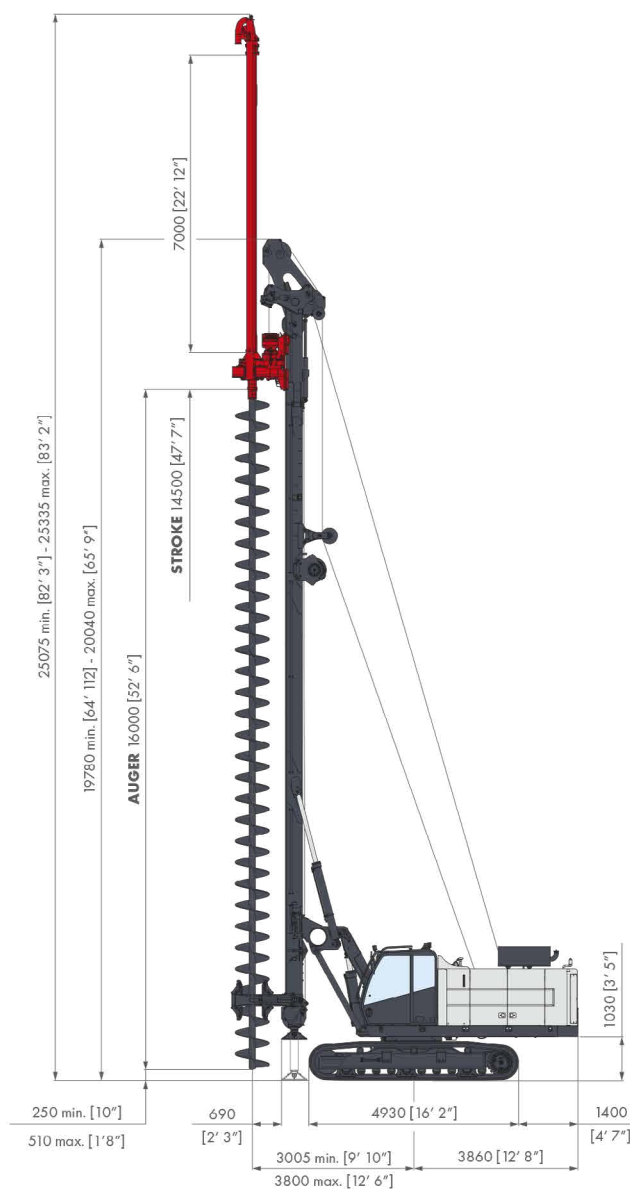
	m.s.	i.s.	WS (Winch System)		CS (Cylinder System)	
Nominal max. torque	kNm	lbf-ft	190 at 33 MPa		140.000 at 4.800 psi	
Max. torque	kNm	lbf-ft	165 at 28,5 MPa		121,700 at 4,130 psi	
Engine power rating	kW	hp	201 - 209 at 2000 rpm		274 - 284 at 2000 rpm	
Max. pile diameter	mm	ft-in	1.300 / 2.000 ¹	4' 3" - 6' 7" ¹	1.500 ⁴ / 2.000 ⁵	4' 11" ⁴ / 6' 7" ⁵
Max. pile depth	mm	ft-in	60.500 ²	198' 6" ²	54.500 ²	178' 10" ²
Operating weight w/o tool	ton		44,8 ³		43,1 ³	
NOTES	1 - With - without bottom mast element		3 - c/w 4 x 9.000 mm (4 x 29'6") long 368 mm (14" 1/2) dia. Kelly bar; rotary c/w bucket opening flange			
	2 - Using self mounting kelly bar		4 - Tool in front of mast		5 - Tool below mast	

CH 18



CFA (Continuous Flight Auger)		m.s.	i.s.		T4		T4 XL		T4 XXL	
Nominal max. torque		kNm	lbf-ft		190 at 33 MPa		140,000 at 4,800 psi			
Max. torque		kNm	lbf-ft		165 at 28,5 MPa		121,700 at 4,130 psi			
Engine power rating		kW	hp		201 - 209 at 2000 rpm		274 - 284 at 2000 rpm			
Max. pile diameter		mm	ft-in	1.000	3' 3"	1.000	3' 3"	1.000	3' 3"	
Max. length of augers		mm	ft-in	17.000	55' 9"	18.500	60' 8"	19.500	63' 11"	
Max. pile depth		mm	ft-in	16.500 + 6.000 = 22.500	54' 2" + 19' 8" = 73' 10"	18.000 + 6.000 = 24.000	59' 1" + 19' 8" = 78' 9"	19.000 + 6.000 = 25.000	62' 4" + 19' 8" = 81' 12"	
Extraction force		kN	lbs	480	107,900	480	107,900	480	107,900	
Crowd force on auger		kN	lbs	45 ¹	10,200 ¹	45 ¹	10,200 ¹	45 ¹	10,200 ¹	
Operating weight w/o tool		ton	42,5 ²		42,5 ²		42,5 ²		43,7 ²	
NOTE	1 - Optional 100 kN (22,480 lbs)					2 - c/w auger extension, auger cleaner; swivel and swan neck				

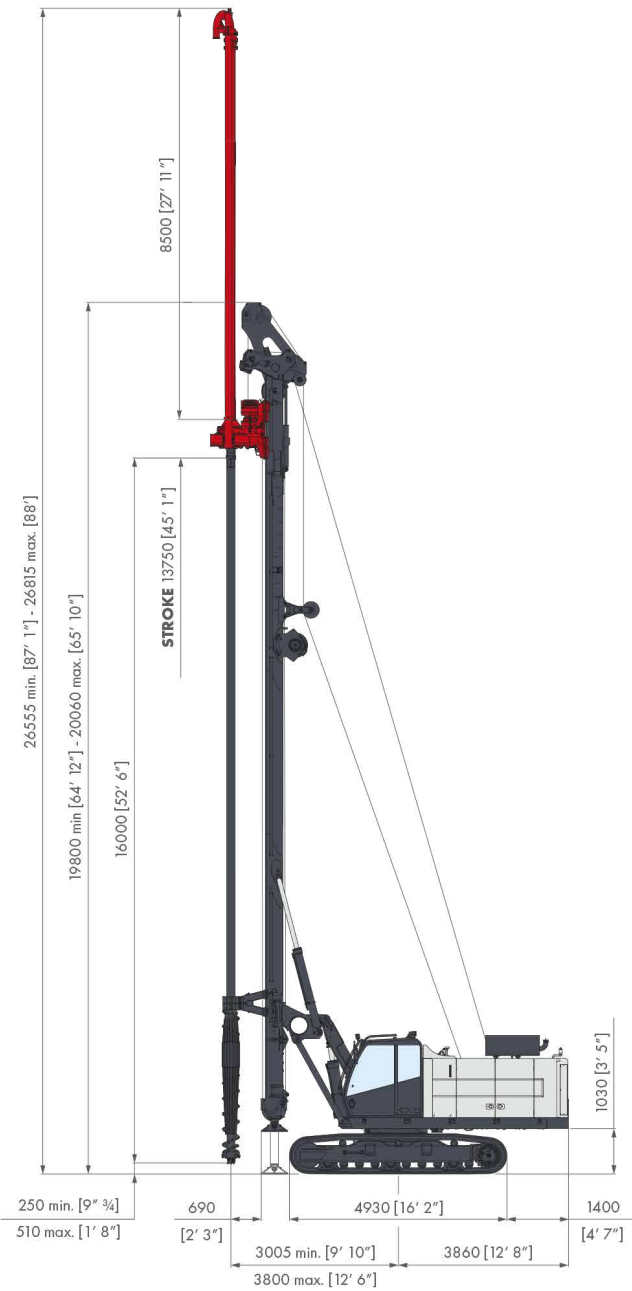
CH 18



CFA (Continuous Flight Auger)	m.s.	i.s.	CFA/WS (Quick Conversion CFA)	
Nominal max. torque	kNm	lbf-ft	190 at 33 MPa	140,000 at 4,800 psi
Max. torque	kNm	lbf-ft	165 at 28,5 MPa	121,700 at 4,130 psi
Engine power rating	kW	hp	201 - 209 at 2.000 rpm	274 - 284 at 2.000 rpm
Max. pile diameter	mm	ft-in	1.000	3' 3"
Max. length of augers	mm	ft-in	16.000	52' 6"
Max. pile depth	mm	ft-in	14.000 + 7.000 = 21.000	46' + 23' = 69'
Extraction force	kN	lbs	330	74,200
Crowd force on auger	kN	lbs	140	31,470
Operating weight w/o tool	ton		41,5 ¹	

NOTE 1 - c/w auger extension, auger cleaner; swivel and swan neck

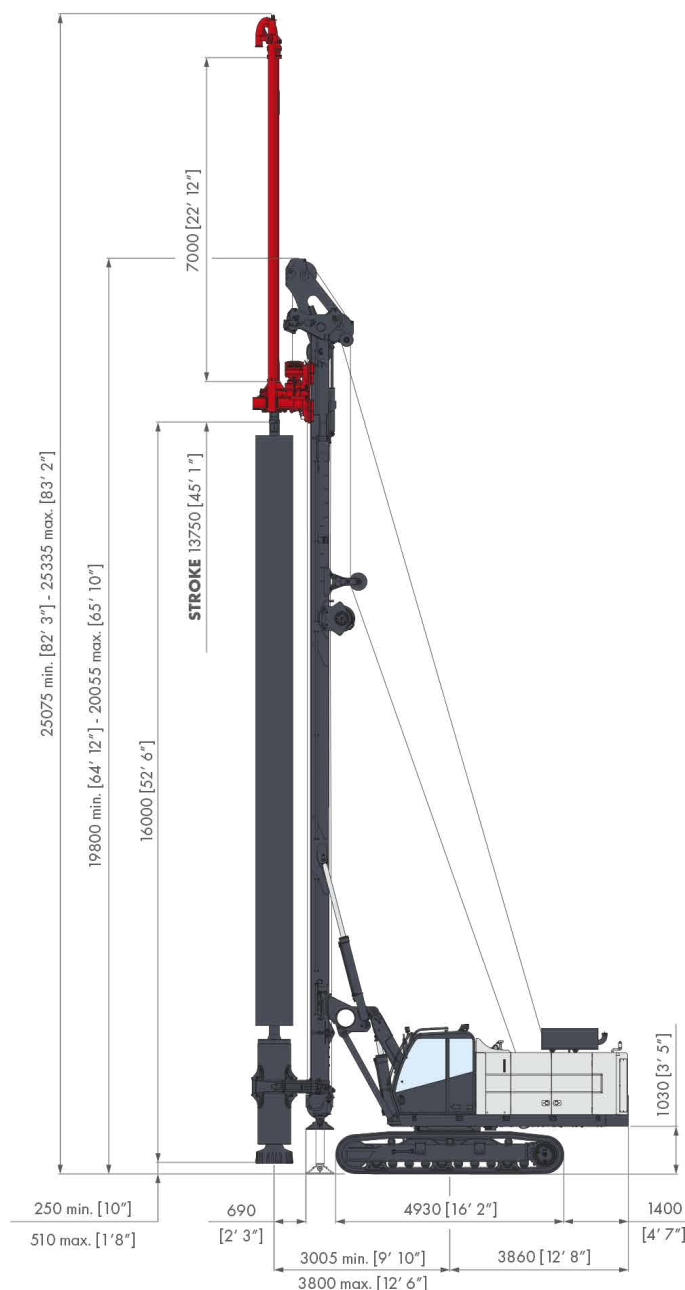
CH 18



DP (Displacement Piles) SM (Soil Mixing)	m.s.		i.s.	
Nominal max. torque	kNm	lbf-ft	190 at 33 MPa	140,000 at 4,800 psi
Max. torque	kNm	lbf-ft	165 at 28,5 MPa	121,700 at 4,130 psi
Engine power rating	kW	hp	201 - 209 at 2000 rpm	274 - 284 at 2000 rpm
Max. drill string length	mm	ft-in	16.000	52' 6"
Max. length of drill string extension	mm	ft-in	8.500	27' 11"
Max. pile depth	mm	ft-in	13.500 + 8.500 = 22.000	44' 3" + 27' 11" = 72' 2"
Extraction force	kN	lbs	330	74,200
Max. pull down force	kN	lbs	240	53,954
Operating weight w/o tool	ton		41,5 ¹	

NOTE 1 - c/w 8.500 mm (27' 11") drill string extension

CH 18



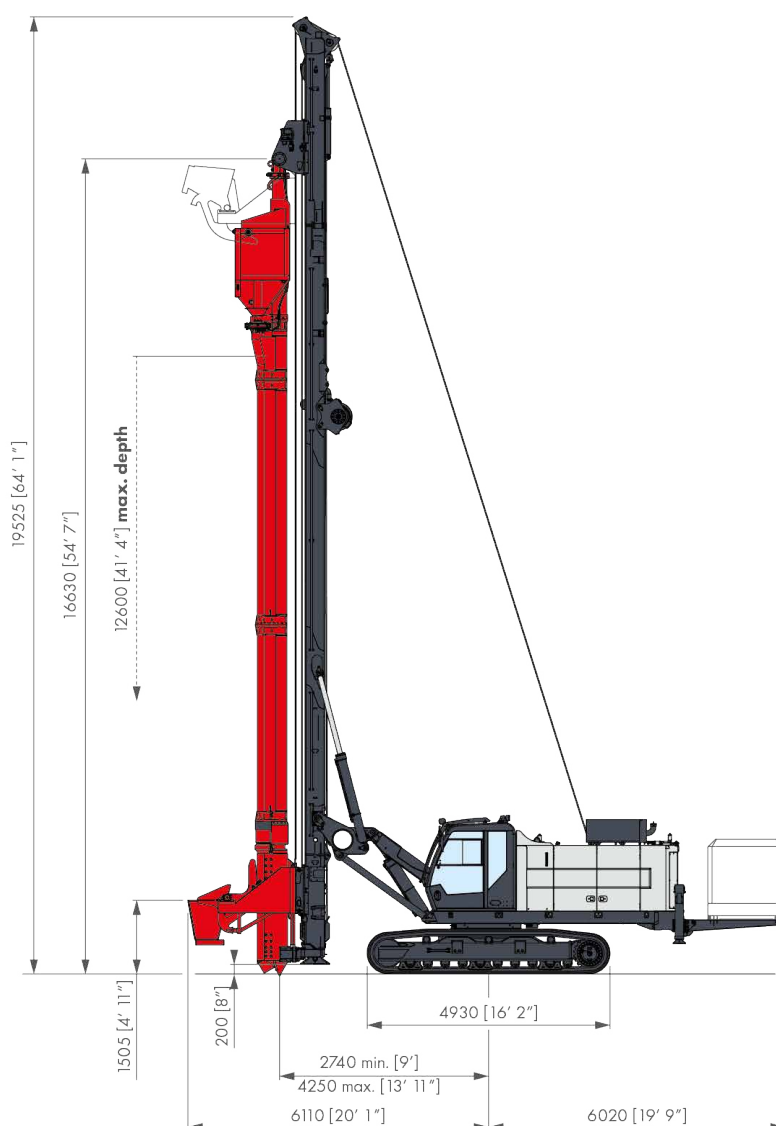
LDTH (Large DTH)	m.s.	i.s.	CH 12		CH 18		CH 23	
Max. pile diameter	mm	ft-in	800	2' 8"	1.000	3' 3"	1.000	3' 3"
Stroke c/w mast foot	mm	ft-in	11.200	36' 8"	14.500	47' 7"	16.000	52' 5"
Max. pile depth	mm	ft-in	Approx. 40.000 - 50.000 ¹	Approx. 131' 2" - 165" ¹	Approx. 50.000 - 60.000 ¹	Approx. 164' - 196' ¹	Approx. 60.000 - 70.000 ¹	Approx. 196' - 229' 7" ¹
Extraction force	kN	lbs	250	56,200	330	74,200	580	130,400
Operating weight w/o tool	ton		27 ²		41,5 ²		65,6 ²	

NOTE

1 - Max. depth is upon drill string weight and diameter

2 - c/w drill string extension

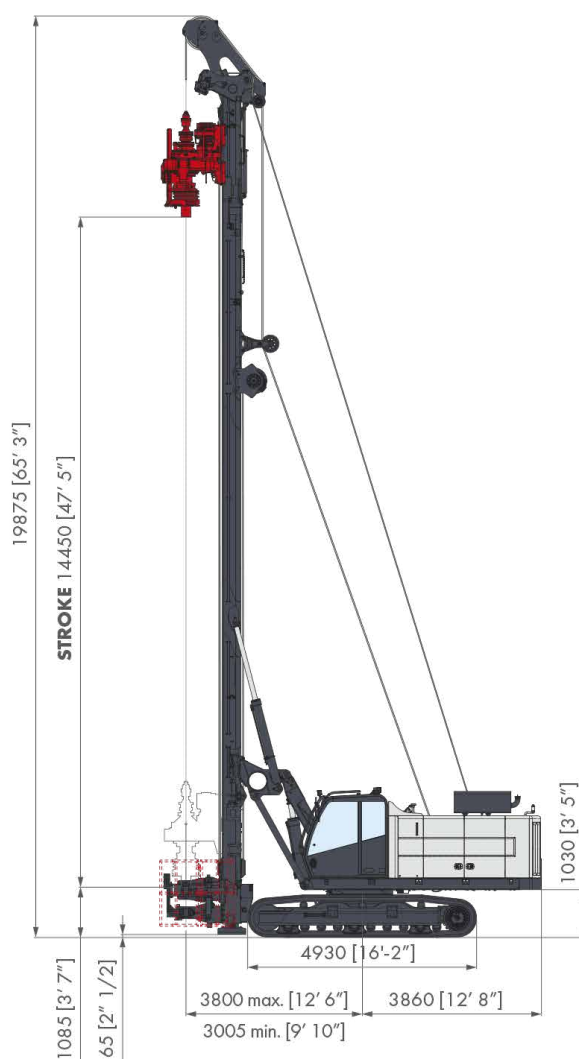
CH 18



WS (Winch System)	m.s.	i.s.	SC (Stone Columns)	
Vibroflotation unit length	mm	ft-in	16.630	54' 7"
Max. pile depth	mm	ft-in	12.600	41' 4"
Vibration frequency	Hz		50	
Extraction force	kN	lbs	240	54,000
Pull down force	kN	lbs	240	54,000
Operating weight w/o tool	ton		44,2 ¹	

NOTE 1 - c/w 2.2 ton compressor unit; w/o weight of gravel

CH 18



MP (Micropiles)	m.s.	i.s.	DOUBLE HEAD		SINGLE HEAD	
Max. feed force	kN	lbs	93	20,900	240	53,900
Max. retract force	kN	lbs	204	45,800	240	53,900
MAST						
Feed Stroke	mm	ft-in	14.500	47' 6"	14.500	47' 6"
DOUBLE CLAMP WITH CASING EXTRACTOR						
Clamping range	mm	in	120 - 620	4 3/4" - 24"	120 - 620	4 3/4" - 24"
ROTARY HEAD						
Gears	-	-	3	4	2	
Max. torque	kNm	lbs-ft	24.7	18,200	106.2	78,300
Max. speed	rpm	rpm	97	36	51.5	
OPERATING WEIGHT W/O TOOL						
	ton		43,7		43,4	

NOTE MP Configuration is also available for CH 12 (CS-SW) & CH 23 piling rig