



COMACCHIO

CH

PILING EQUIPMENT

DEEP FOUNDATIONS
& GROUND IMPROVEMENT



THE MULTIPURPOSE RIGS

CH

The **Comacchio CH** range of piling rigs currently includes **6 models of multipurpose machines** (in a weight range from **15 to 98 tons**), that can be configured to cover a wide range of applications, such as **KELLY PILES, CFA, DP and Soil Mixing**.

The range also includes **models of dedicated CFA rigs**, in the weight class of **50 and 86 tons**.

The **CH rigs** can be also offered in different **LHR** (low head room) configurations, designed for the construction of bored piles in challenging access sites



CH RANGE/TECHNOLOGIES		CH 150	CH 300	CH 320	CH 450
	BP (Bored Piles)	• 1	• 1	•	•
	CFA (Continuous Flight Auger)	• 1	• 1	•	•
	T4 Quick Conversion	-	-	•	•
	DP (Displacement Piles)	-	-	•	•
	SM (Soil Mixing)	-	-	•	•
	LDTH (Large DTH)	-	-	•	•
	MP (Micropiles)	-	-	•	•
CLASS WEIGHT With kelly, rotary & w/o tool		15 TON	30 TON	32 TON	45 TON

NOTES

1 - Only in CC (Crown Cylinder) configuration



CHF 500	CH 650	CH 850	CHF 900	MULTIPURPOSE PILING RIGS CH
-	•	•	-	BP (Bored Piles) 
•	-	•	•	T4 CFA (Continuous Flight Auger) 
-	•	•	-	Quick Conversion 
-	•	•	•	DP (Displacement Piles) 
-	•	•	•	SM (Soil Mixing) 
-	•	•	-	LDT (Large DTH) 
-	•	-	-	MP (Micropiles) 
50 TON	65 TON	98 TON	86 TON	CLASS WEIGHT With kelly, rotary & w/o tool

EFFICIENCY. HIGH PERFORMANCE. SUSTAINABILITY.

CH



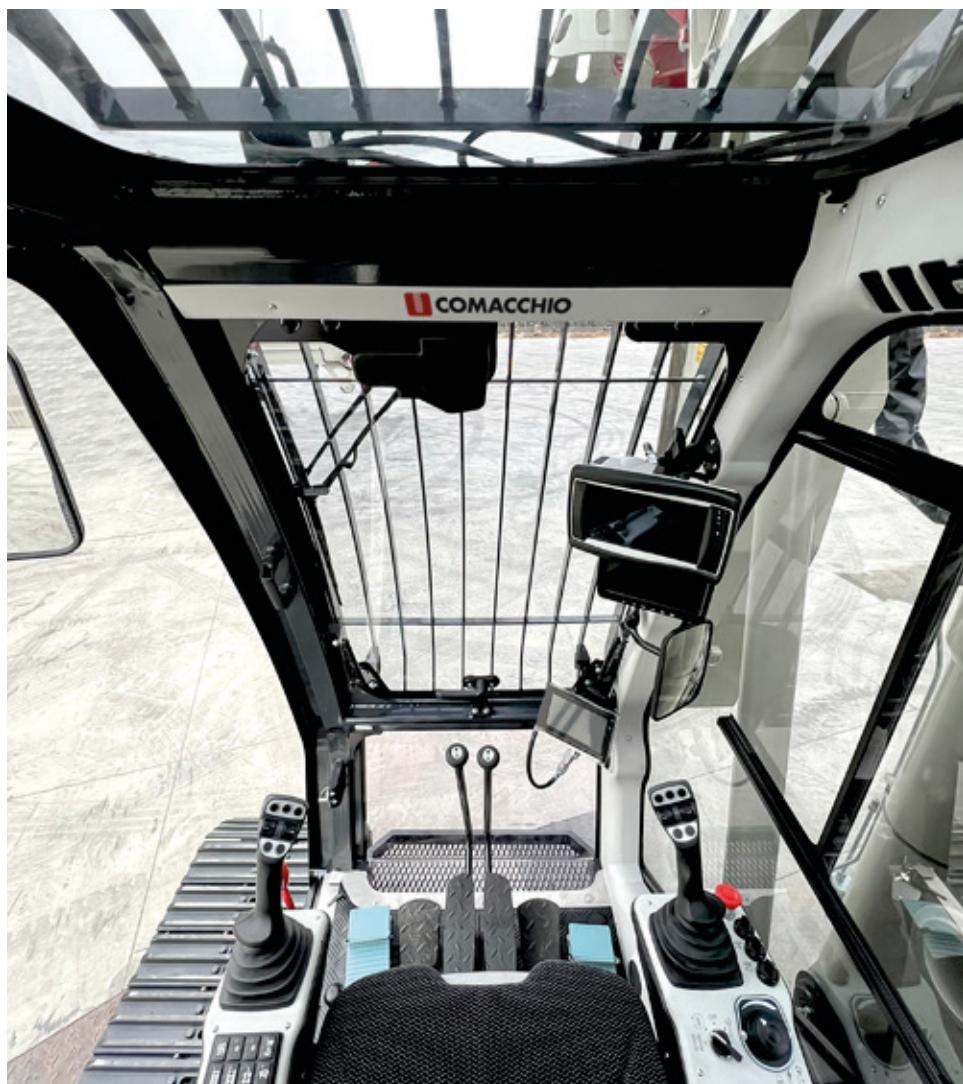
  	ENERGY EFFICIENCY & SUSTAINABILITY	<ul style="list-style-type: none"> Stage V technology (EPA Tier 4 Final) for exhaust aftertreatment and engine control HPE (High Power Efficiency) system reducing energy dissipation Optimized engine and hydraulic oil cooling system Low-noise rotary head Reduced fuel consumption and lower noise levels
	FLEXIBILITY & HIGH PRODUCTIVITY	<ul style="list-style-type: none"> Two types of crowd system (cylinder / winch) Easy-to-install conversion kits & counterweights Modular mast design Multipurpose design of rotary head Operational flexibility in all piling and soil consolidation techniques
	EASY TRANSPORT & RIG-UP	<ul style="list-style-type: none"> Compact design Reduced mobilization costs Short rig-up/rig-down times Assisted and automated rig-up functions Radio control for track functions
	EASY OPERATION & FLEET MANAGEMENT ComNect	<ul style="list-style-type: none"> Comacchio Controlling System (CCS) Highly ergonomic cabin design User-friendly interface ensuring complete interactive control Assisted and automated drilling functions ComNect fleet management software
	SAFETY & MAINTENANCE	<ul style="list-style-type: none"> Designed and manufactured entirely in Italy Optimal material selection and state of the art high-quality components Clean uncluttered layout of all components Tops and Fops-1 certified cabin Scalable design of the base carriers Safety features in line with the strictest EU regulations
	LIVE THE EXPERIENCE	

SAFETY. COMFORT. TECHNOLOGY.

CH

The concept of the CH range starts from the idea of a consistent development of all models, given by the **modular design of the base carriers**, the **common concept of the hydraulic and electrical systems**, electronically controlled through the **CCS software**, and the **cab project**, developed in-house by Comacchio.

Inspired by the automotive-style fit and finish, the new **Comacchio cab stands out for its ergonomic design and safety features**, offering **high level of comfort** for the operator and ensuring **smooth and easy operation**.





ENHANCED SAFETY

- Tops & Fops-1 Certified
- Front & top cab **protective grate**



HIGH VISIBILITY

- Fully glazed with **automatic sliding door**
- Set of 4 cameras with in-cab monitor for all-around view
- LED work lights



WORKPLACE COMFORT

- Heating and air conditioning
- Radio / Bluetooth system, phone charger, refrigerated bottle-holder
- Storage compartments



USER-FRIENDLY INTERACTIVE CONTROL

- 12" color touch screen display for the monitoring and control of the operating parameters via CCS software



CCS - COMACCHIO CONTROLLING SYSTEM

- Managing and controlling of all the electrically actuated functions
- Diagnosis check control and errors display
- Pump pressures display
- Mast verticality control by means of an electronic inclinometer
- Drilling depth display
- Rotary speed and pressure display
- Crowd pressure display
- Automatic rotary speed management (ASM) setting allowing the drilling in constant power mode
- Interactive rotary multiple gear system (IMGS), allowing the operator to manually adjust the gear speed
- Automatic winches control on rigging and derigging phases
- Slewing back to centre hole with automatic stop
- Diesel engine interface on a separate display



SOUND INSULATION

- In-cab soundproofing



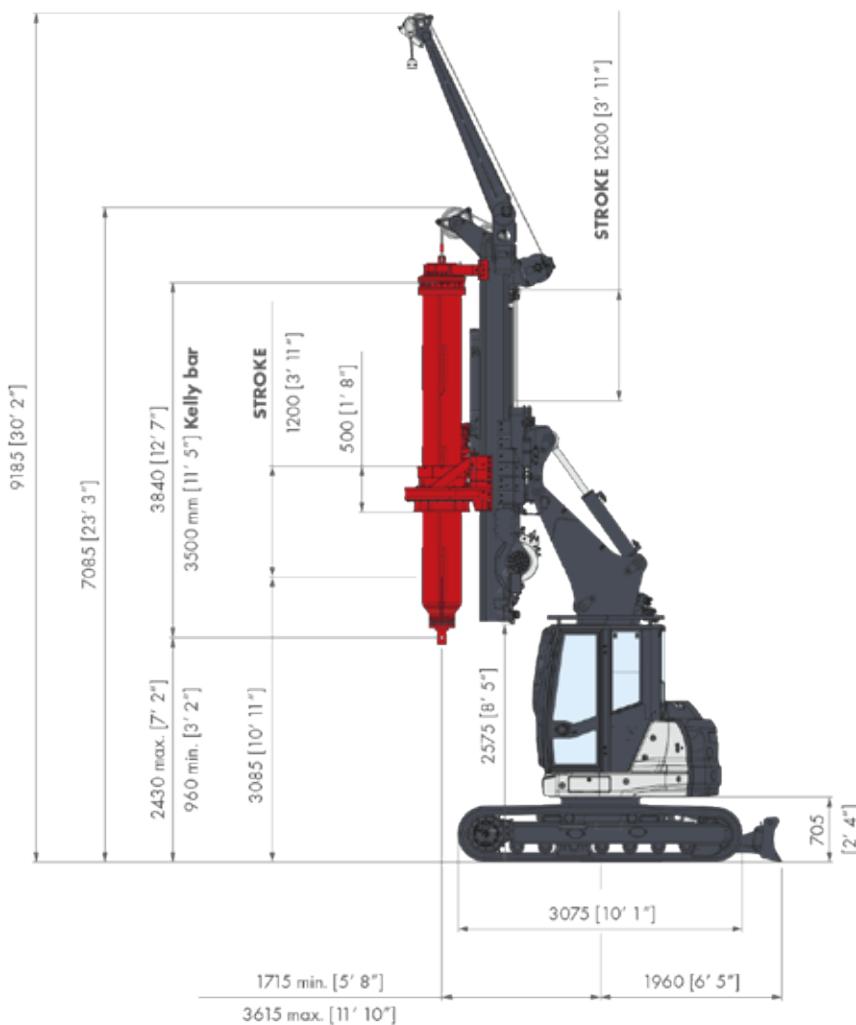
IMPROVED ERGONOMICS

- Roomy inner space
- Fully adjustable working seat with dynamic suspension system
- Ergonomic arrangement and design of multifunction controls

BORED PILES

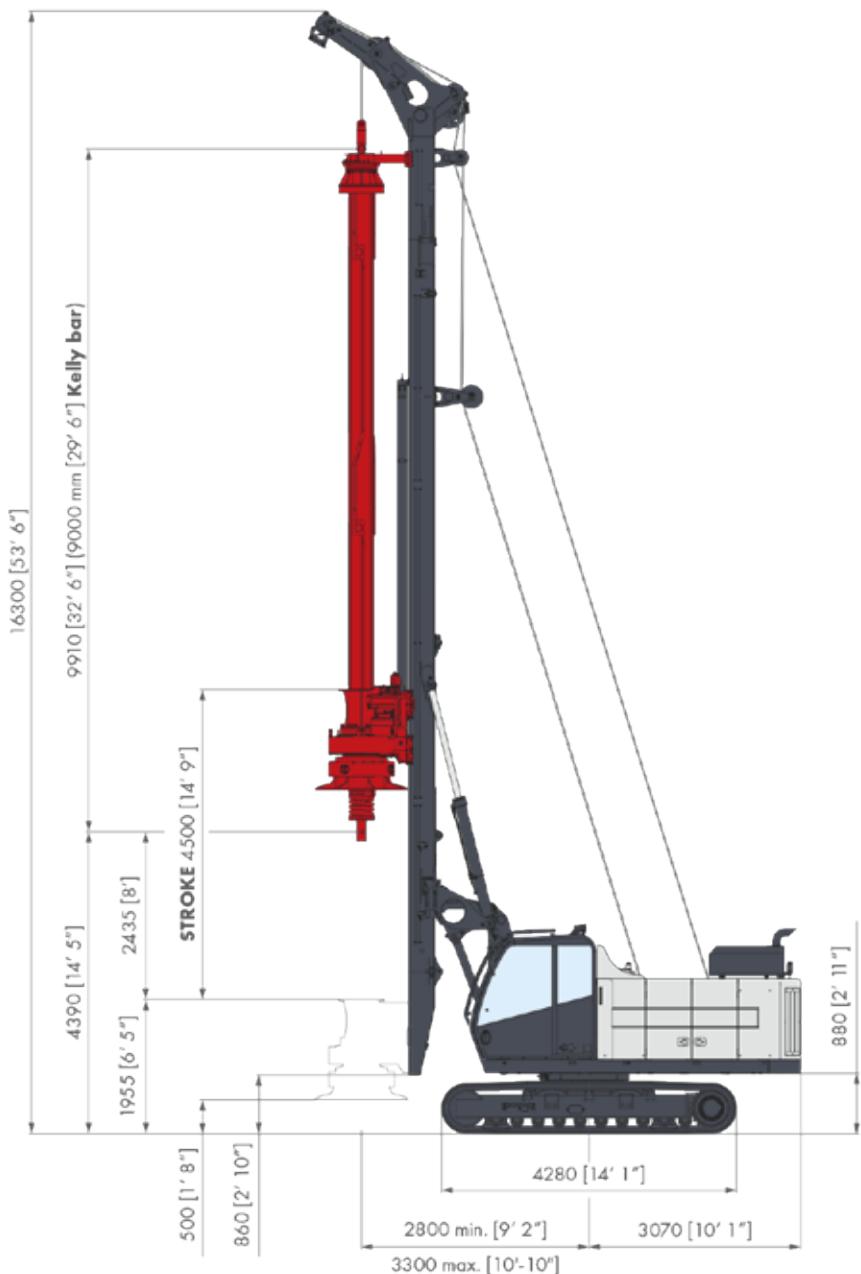


CH 150



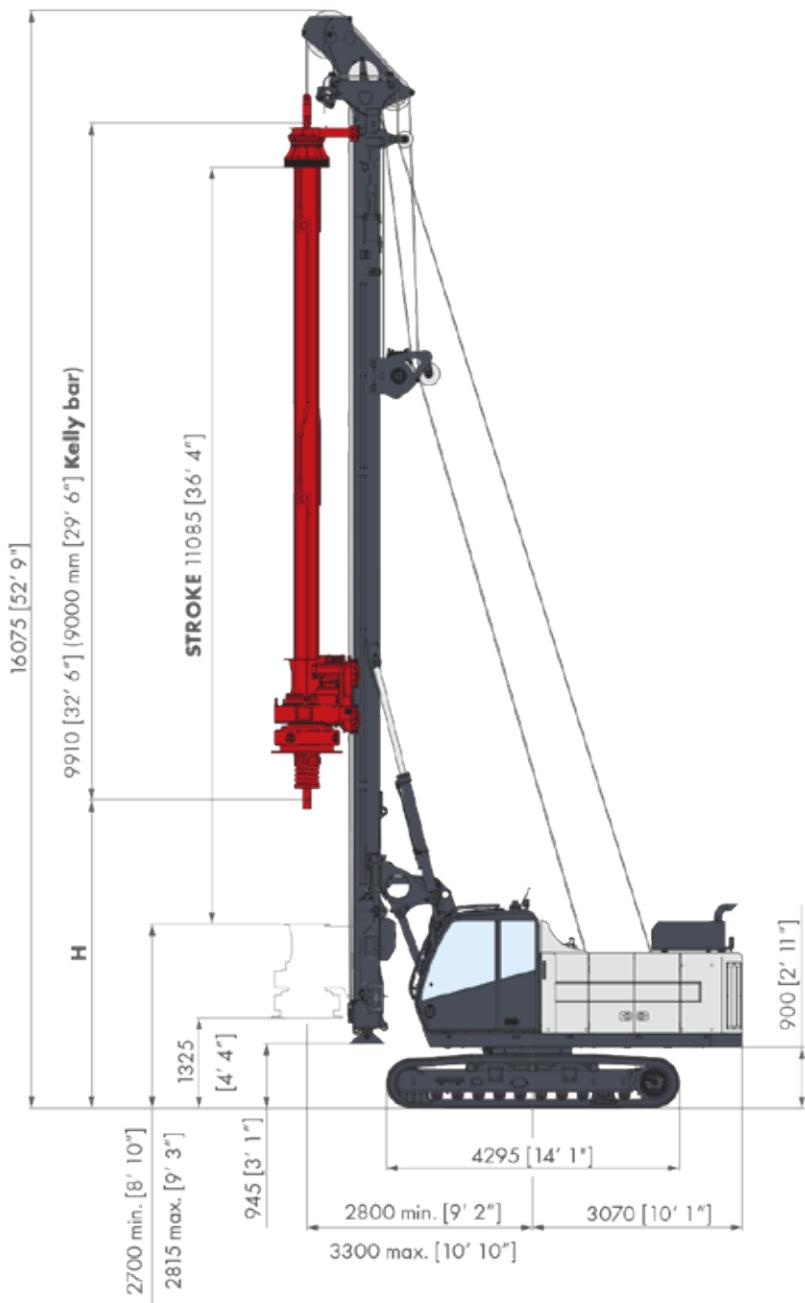
CC (Crowd Cylinder)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	44 at 35 MPa	32,450 at 5,076 psi
Max. torque	kNm	lbf-ft	35 at 28 MPa	25,800 at 4,060 psi
Engine power rating	kW	hp	54 at 2100 rpm	73 at 2100 rpm
Max. pile diameter	mm	ft-in	750 - 1.000 ¹	2' 6" - 3' 3" ¹
Max. pile depth	mm	ft-in	27.800 ²	91' 2" ²
Operating weight w/o tool	ton		15 ³	
NOTES	1 - Tool under mast 3 - c/w 7 x 2.700 mm (7 x 8'10") long Kelly bar			
	2 - Using 9 elements locking kelly bar			

CH 300



CC (Crowd Cylinder)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	132 at 35 MPa	97,300 at 5,076 psi
Max. torque	kNm	lbf-ft	113 at 30 MPa	83,300 at 4,350 psi
Engine power rating	kW	hp	123 - 142 at 2000 rpm	165 - 190 at 2000 rpm
Max. pile diameter	mm	ft-in	1.300¹ / 1.500²	4' 3" ¹ / 4' 11" ²
Max. pile depth	mm	ft-in	47.000³	154' 2" ³
Operating weight w/o tool	ton		29,85⁴	
NOTES	1 - Tool in front of mast 3 - Using 5 elements kelly bar 2 - Tool below mast 4 - c/w 4 x 9.000 mm (4 x 29'6") long 355 mm (14") dia. Kelly bar; rotary c/w bucket opening flange			

CH 320



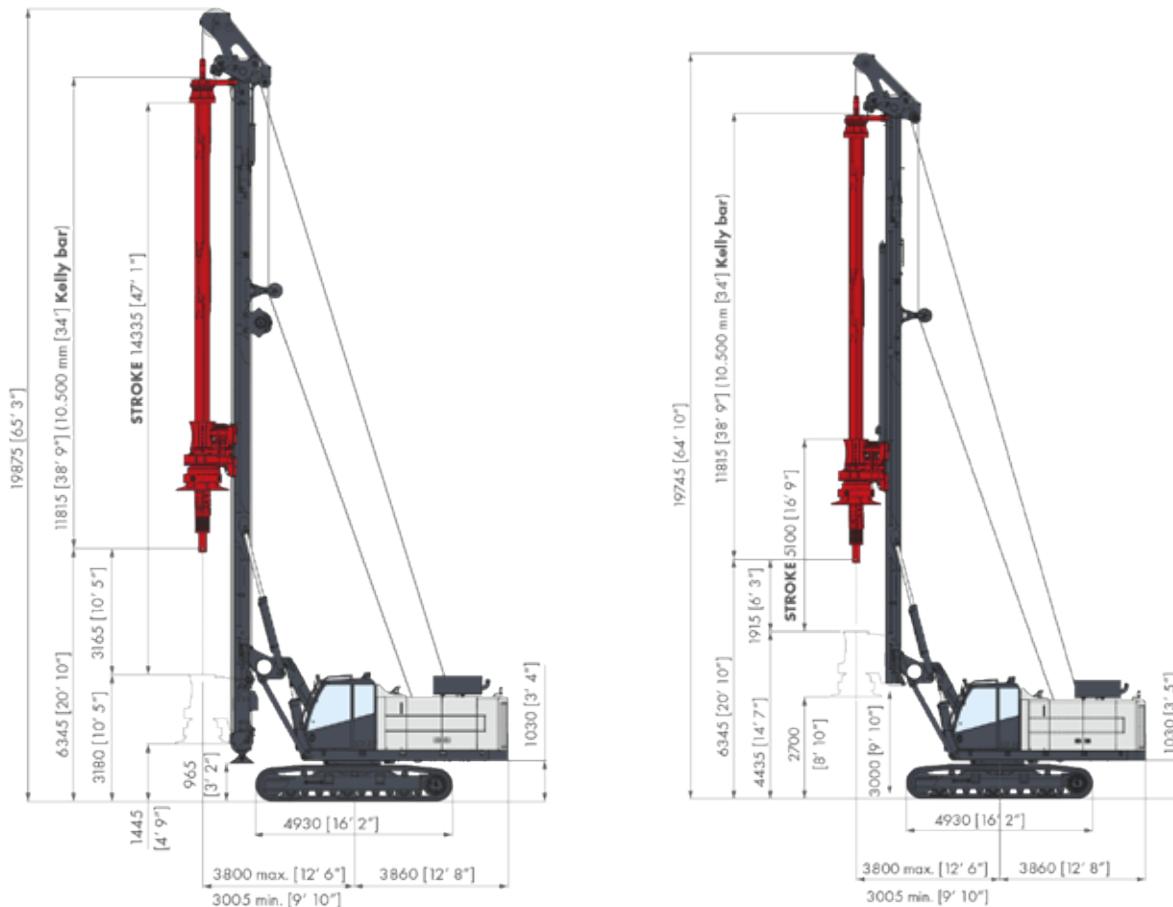
CW (Crowd Winch)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	132 at 35 MPa	97,300 at 5,076 psi
Max. torque	kNm	lbf-ft	113 at 30 MPa	83,300 at 4,350 psi
Engine power rating	kW	hp	123 - 142 at 2000 rpm	165 - 190 at 2000 rpm
Max. pile diameter	mm	ft-in	1.180¹ / 1.500²	3' 10" ¹ / 4' 11" ²
Max. pile depth	mm	ft-in	47.000³	154' 2" ³
Operating weight w/o tool	ton		31,6⁴	
NOTES	1 - Tool in front of mast 3 - Using self mounting 5 elements kelly bar 2 - Tool below mast 4 - c/w 4 x 9.000 mm (4 x 29'6") long 355 mm (14") dia. Kelly bar; rotary c/w bucket opening flange			

CH 450



CW

CC

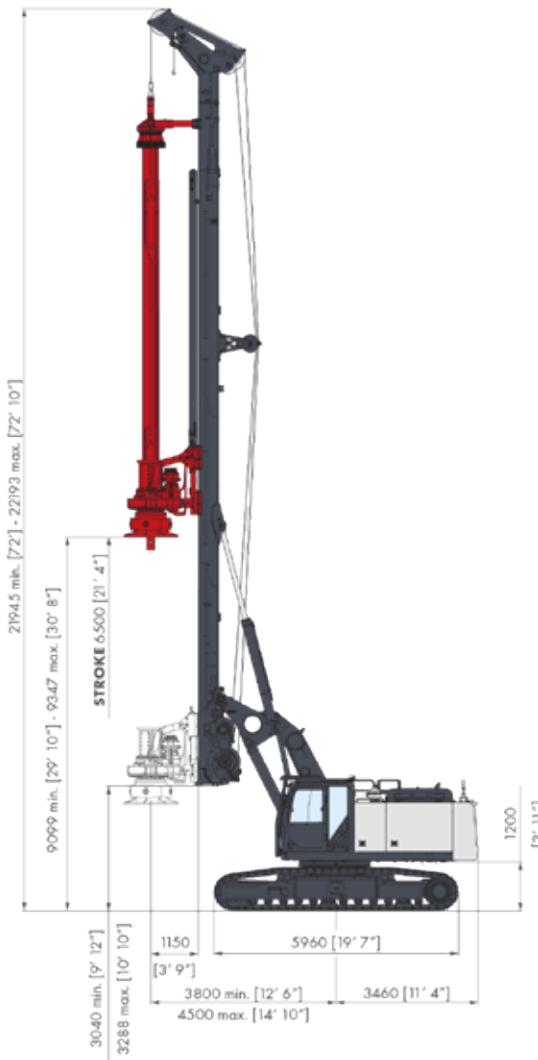
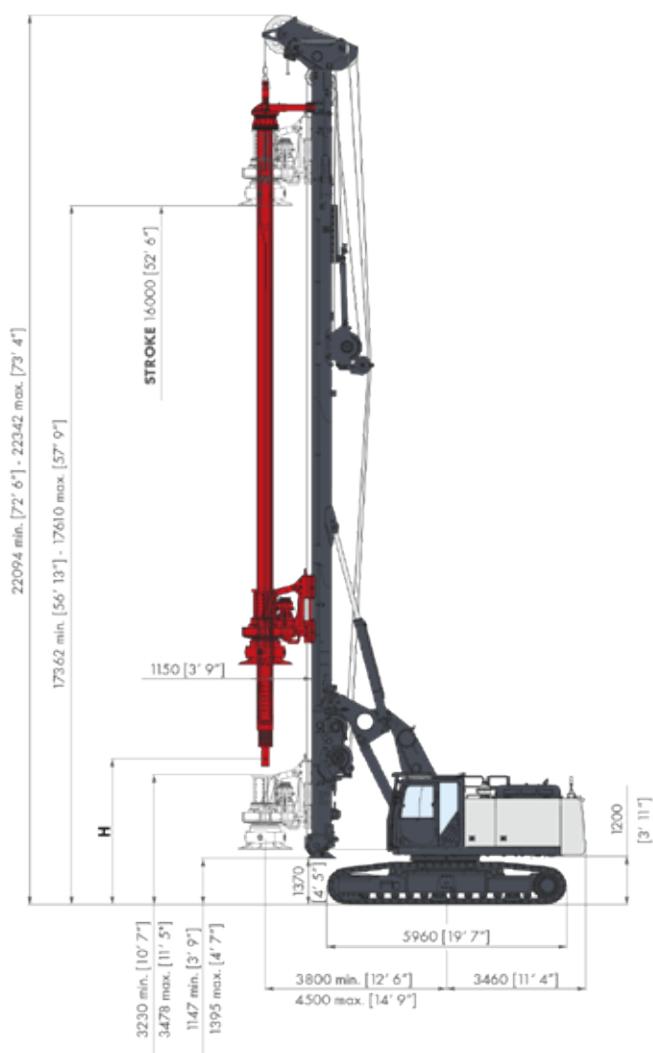


	m.s.	i.s.	CW (Crowd Winch)		CC (Crowd Cylinder)	
Nominal max. torque	kNm	lbf-ft		190 at 33 MPa	140.000 at 4.800 psi	
Max. torque	kNm	lbf-ft		165 at 28,5 MPa	121,700 at 4,130 psi	
Engine power rating	kW	hp	201 - 209 at 2000 rpm		274 - 284 at 2000 rpm	
Max. pile diameter	mm	ft-in	1.300 / 2.000¹	4' 3" - 6' 7"¹	1.500⁴ / 2.000⁵	4' 11" 4 / 6' 7" 5
Max. pile depth	mm	ft-in	60.500²	198' 6"²	54.500²	178' 10"²
Operating weight w/o tool	ton		44,8³		43,1³	
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		5 - Tool below mast	
	2 - Using self mounting kelly bar		4 - Tool in front of mast			

CH 650

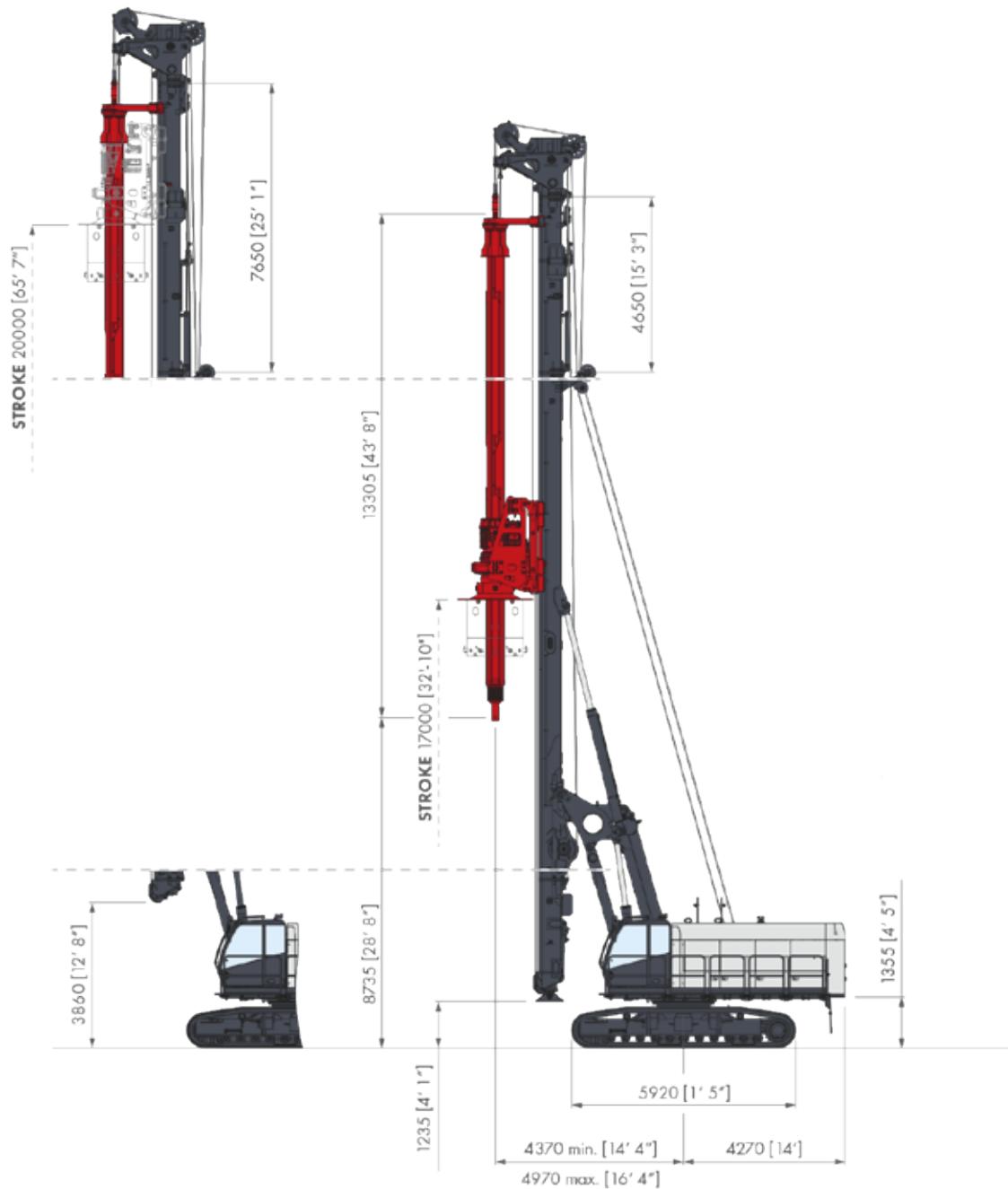


CW



	m.s.	i.s.	CW (Crowd Winch)	CC (Crowd Cylinder)
Nominal max. torque	kNm	lbf-ft	262 at 35 MPa	193,200 at 5,080 psi
Max. torque	kNm	lbf-ft	225 at 30 MPa	166,000 at 4,350 psi
Engine power rating	kW	hp	234 - 261 at 1800 rpm	314 - 350 at 1800 rpm
Max. pile diameter	mm	ft-in	2.000 / 2.500¹ 6' 7" - 8' 2" ¹	2.000⁴ / 2.500⁵ 6' 7" ⁴ / 8' 2" ⁵
Max. pile depth	mm	ft-in	66.000² 216' 6" ²	66.000² 216' 6" ²
Operating weight w/o tool	ton		71,6³	69,9³
NOTES	1 - With - without bottom mast element		3 - c/w kelly bar 4 x 10.500 mm (4 x 34' 5") Ø 406 (1' 4") and bucket opening flange	
	2 - Using self mounting kelly bar		4 - Tool in front of mast	
			5 - Tool below mast	

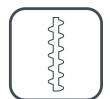
CH 850



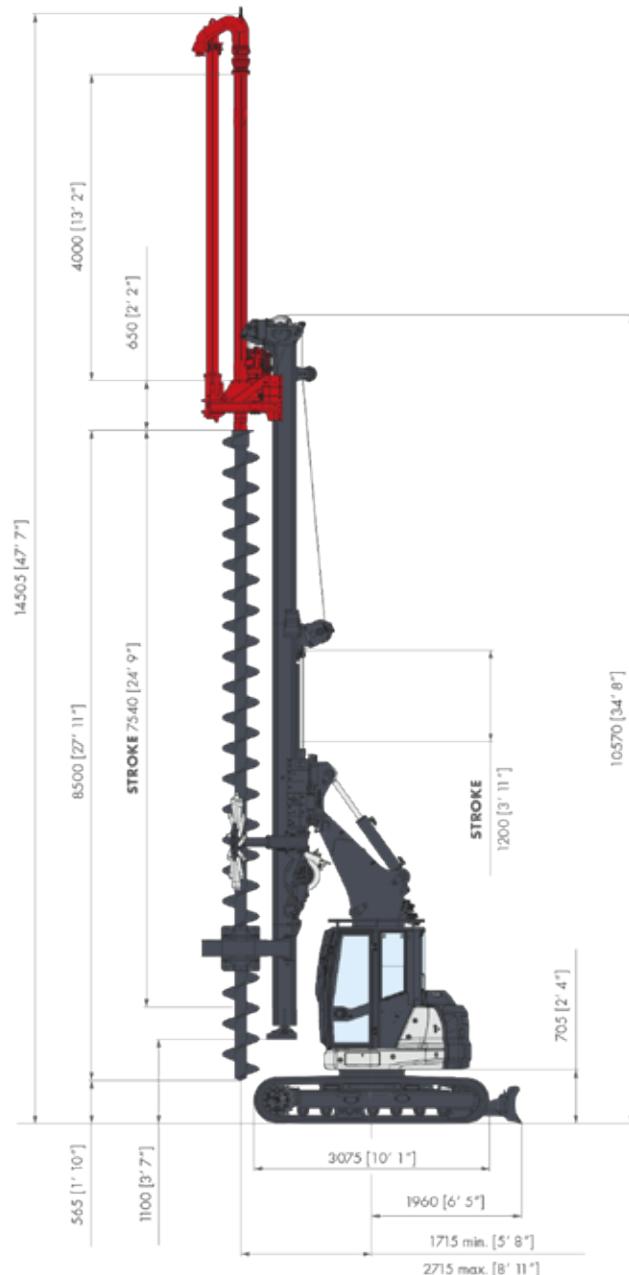
CW (Crowd Winch)	m.s.	i.s.	
Nominal max. torque	kNm	lbf-ft	360 at 32 MPa 265,522 at 4,641 psi
Max. torque	kNm	lbf-ft	320 at 28,5 MPa 236,020 at 4,134 psi
Engine power rating	kW	hp	345 - 405 at 2000 rpm 436 - 543 at 2000 rpm
Max. pile diameter	mm	ft-in	2.500 - 3.000 ¹ 8' 2" - 9' 10" ¹
Max. pile depth	mm	ft-in	86.800 ² 284' 9" ²
Operating weight w/o tool	ton		98 ³
NOTES	1 - With - without bottom mast element 3 - c/w 4 x 12 m (4 x 39'4") long 455 mm (17 1/2") dia. Kelly bar; rotary c/w bucket opening flange		
	2 - Using self mounting 5 elements kelly bar		



CFA



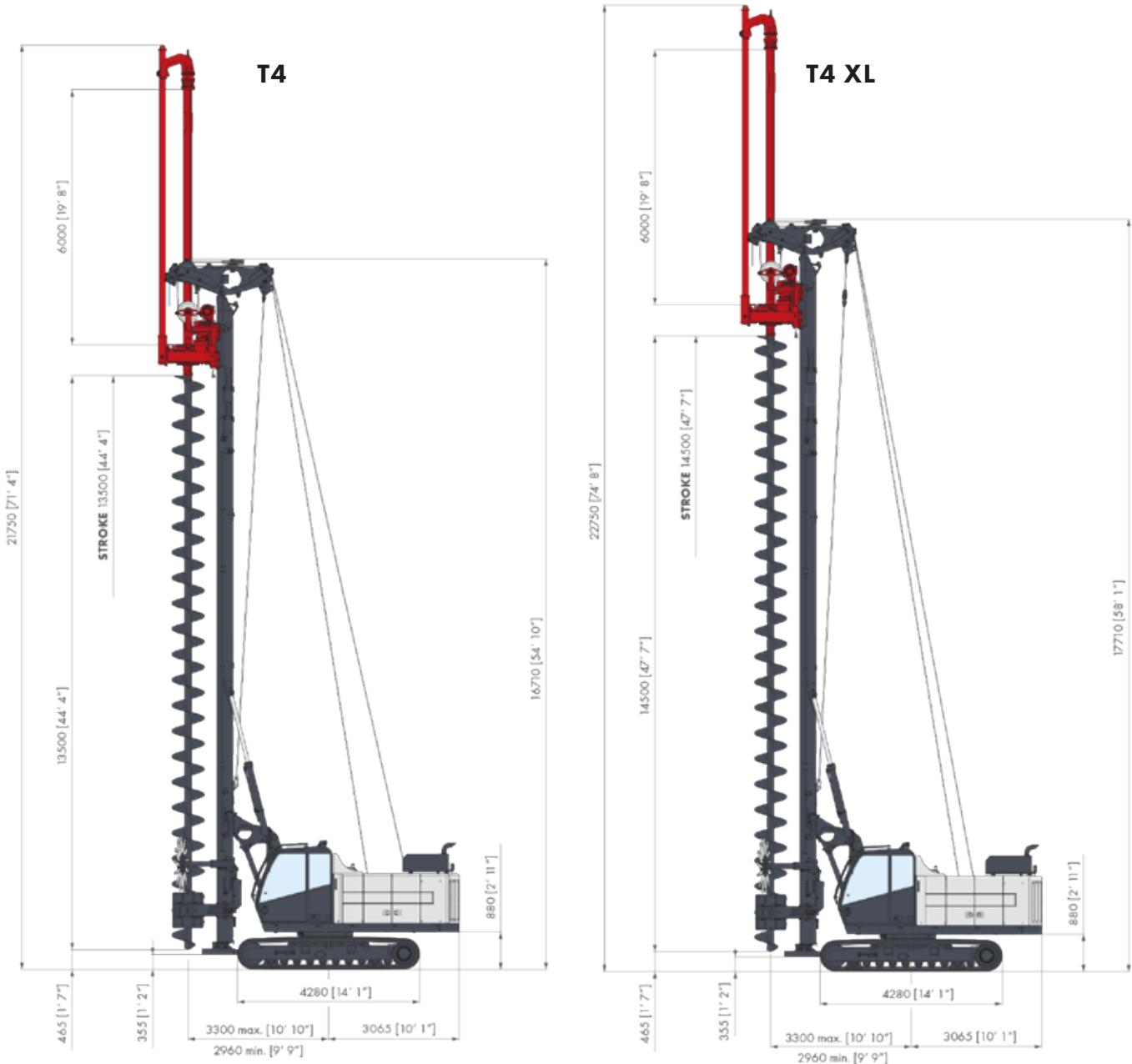
CH 150



CFA (Continuous Flight Auger)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	44 at 35 MPa	32,450 at 5,076 psi
Max. torque	kNm	lbf-ft	35 at 28 MPa	166,000 at 4,350 psi
Engine power rating	kW	hp	54 at 2.100 rpm	73 at 2.100 rpm
Max. pile diameter	mm	ft-in	750	2' 6"
Max. length of augers	mm	ft-in	8.500	27' 11"
Max. pile depth	mm	ft-in	8.100 + 4.000 = 12.100¹	26' 7" + 13' 1" = 39' 8" ¹
Extraction force	kN	lbs	170	37,217
Crowd force on auger (optional)	kN	lbs	60	13,500
Operating weight w/o tool	ton		14	

NOTE 1 - c/w 4,000 mm (13' 1") auger extension

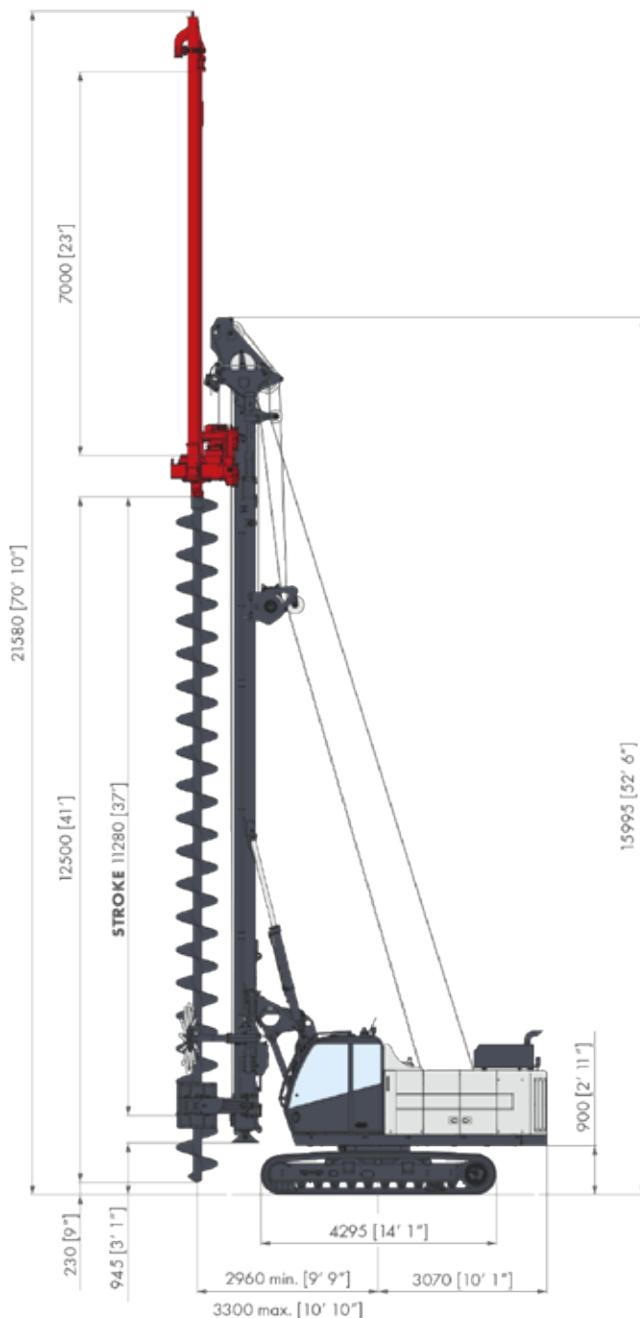
CH 300



CFA (Continuous Flight Auger)	m.s.	i.s.	T4		T4 XL	
Nominal max. torque	kNm	lbf-ft	132 at 35 MPa		97,300 at 5,076 psi	
Max. torque	kNm	lbf-ft	113 at 30 MPa		83,300 at 4,350 psi	
Engine power rating	kW	hp	123-142 at 2.000 rpm		165-190 at 2.000 rpm	
Max. pile diameter	mm	ft-in	800	2' 7"	800	2' 7"
Max. length of augers	mm	ft-in	13.500	44' 4"	14.500	47' 6"
Max. pile depth	mm	ft-in	13.000 + 6.000 = 19.000	42' 8" + 19' 8" = 62' 4"	14.000 + 6.000 = 20.000	45' 11" + 19' 8" = 65' 7"
Extraction force	kN	lbs	320	71,900	320	71,900
Crowd force on auger (optional)	kN	lbs	45	10,100	45	10,100
Operating weight w/o tool	ton		29¹		29,5¹	

NOTE 1 - c/w 6.000 mm (19' 8") auger extension, additional counterweight & star cleaner; without pull down winch on rotary

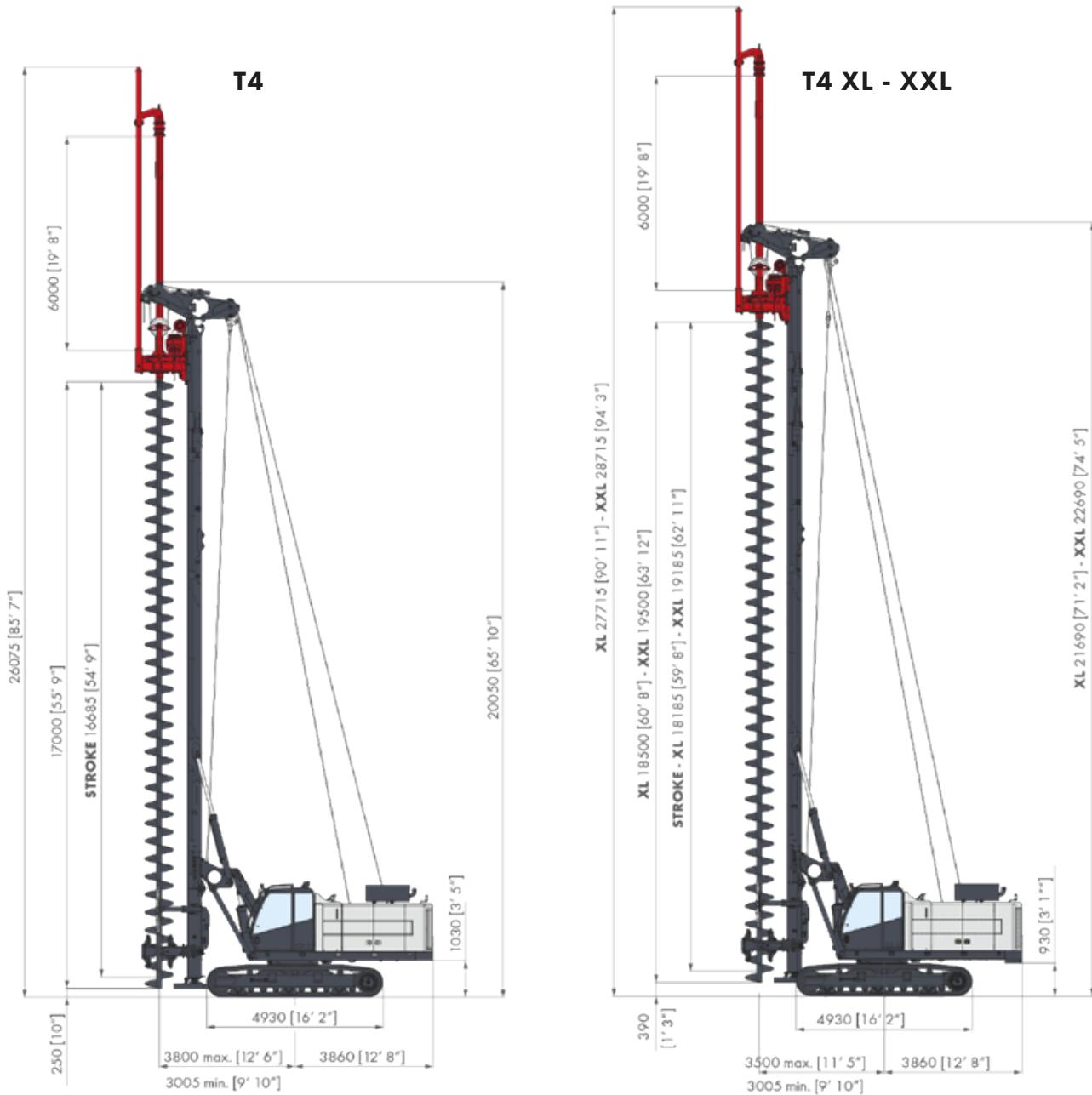
CH 320



CFA (Continuous Flight Auger)	m.s.	i.s.	CFA/CW (Quick Conversion CFA)	
Nominal max. torque	kNm	lbf-ft	132 at 35 MPa	97,300 at 5,076 psi
Max. torque	kNm	lbf-ft	113 at 30 MPa	83,300 at 4,350 psi
Engine power rating	kW	hp	123 - 142 at 2000 rpm	165 - 190 at 2000 rpm
Max. pile diameter	mm	ft-in	800	2' 7"
Max. length of augers	mm	ft-in	12.500	41'
Max. pile depth	mm	ft-in	11.000 + 7.000 = 18.000	36' 1" + 23' = 59' 1"
Extraction force	kN	lbs	250	56,200
Crowd force on auger	kN	lbs	100	22,500
Operating weight w/o tool	ton		27,2 ¹	

NOTE 1 - c/w 7.000 mm (23') auger extension & star cleaner

CH 450



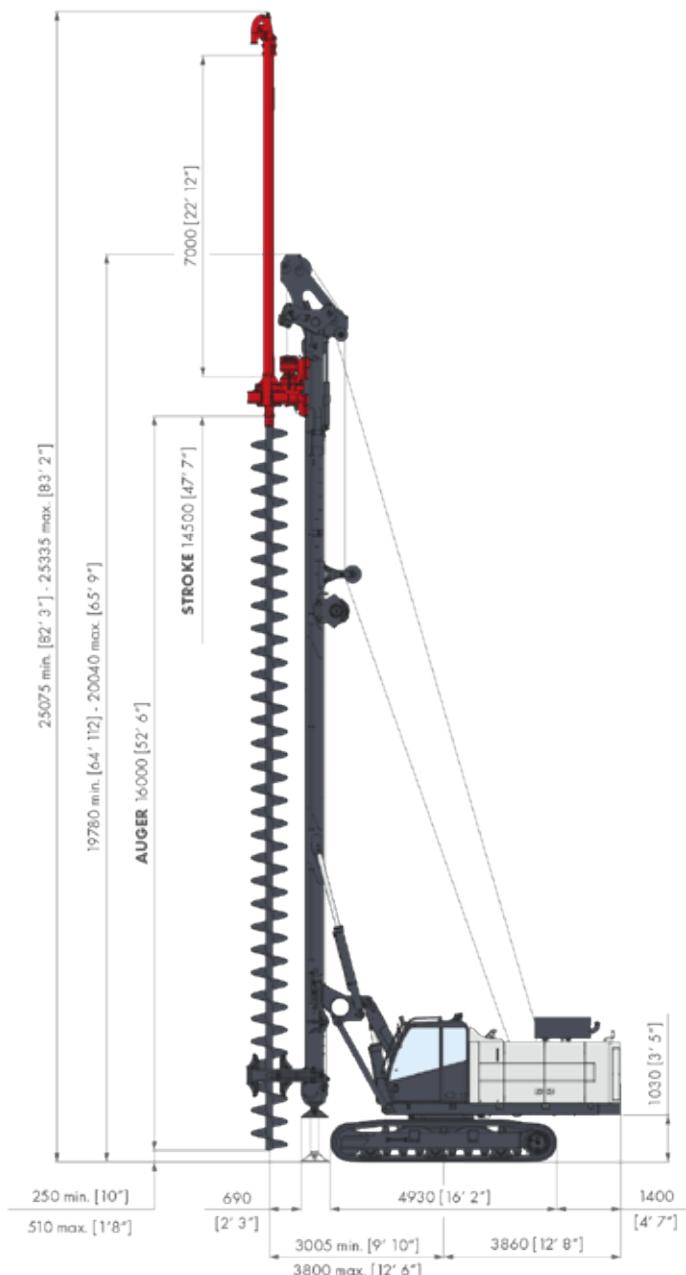
CFA (Continuous Flight Auger)	m.s.	i.s.	T4	T4 XL	T4 XXL
Nominal max. torque	kNm	lbf-ft		190 at 33 MPa	140,000 at 4,800 psi
Max. torque	kNm	lbf-ft		165 at 28,5 MPa	121,700 at 4,130 psi
Engine power rating	kW	hp	201 - 209 at 2000 rpm	274 - 284 at 2000 rpm	
Max. pile diameter	mm	ft-in	1.000	3' 3"	1.000
Max. length of augers	mm	ft-in	17.000	55' 9"	18.500
Max. pile depth	mm	ft-in	16.500 + 6.000 = 22.500	54' 2" + 19' 8" = 73' 10"	18.000 + 6.000 = 24.000
Extraction force	kN	lbs	480	107,900	480
Crowd force on auger	kN	lbs	45¹	10,200¹	45¹
Operating weight w/o tool	ton		42,5²	42,5²	43,7²

NOTE

1 - Optional 100 kN (22,480 lbs)

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

CH 450

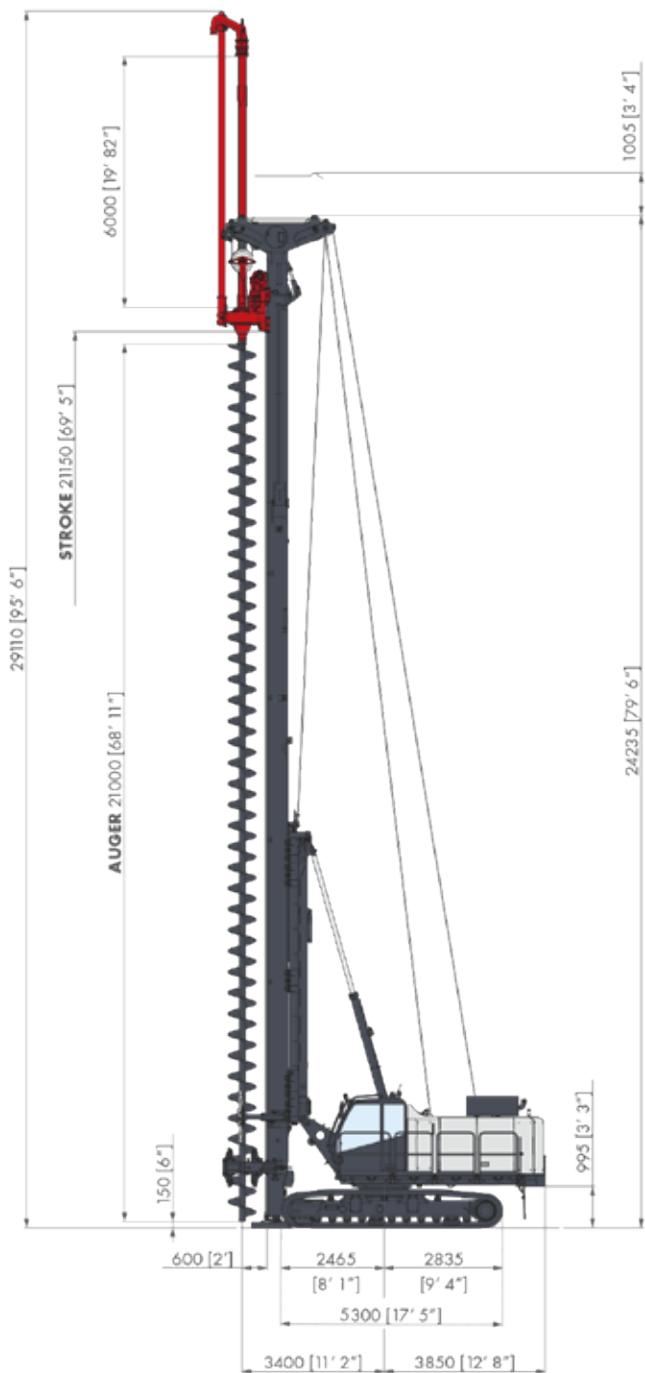


CFA (Continuous Flight Auger)	m.s.	i.s.	CFA/CW (Quick Conversion CFA)	
Nominal max. torque	kNm	lbf-ft	190 at 33 MPa	140,000 at 4,800 psi
Max. torque	kNm	lbf-ft	165 at 28,5 MPa	121,700 at 4,130 psi
Engine power rating	kW	hp	201 - 209 at 2.000 rpm	274 - 284 at 2.000 rpm
Max. pile diameter	mm	ft-in	1.000	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

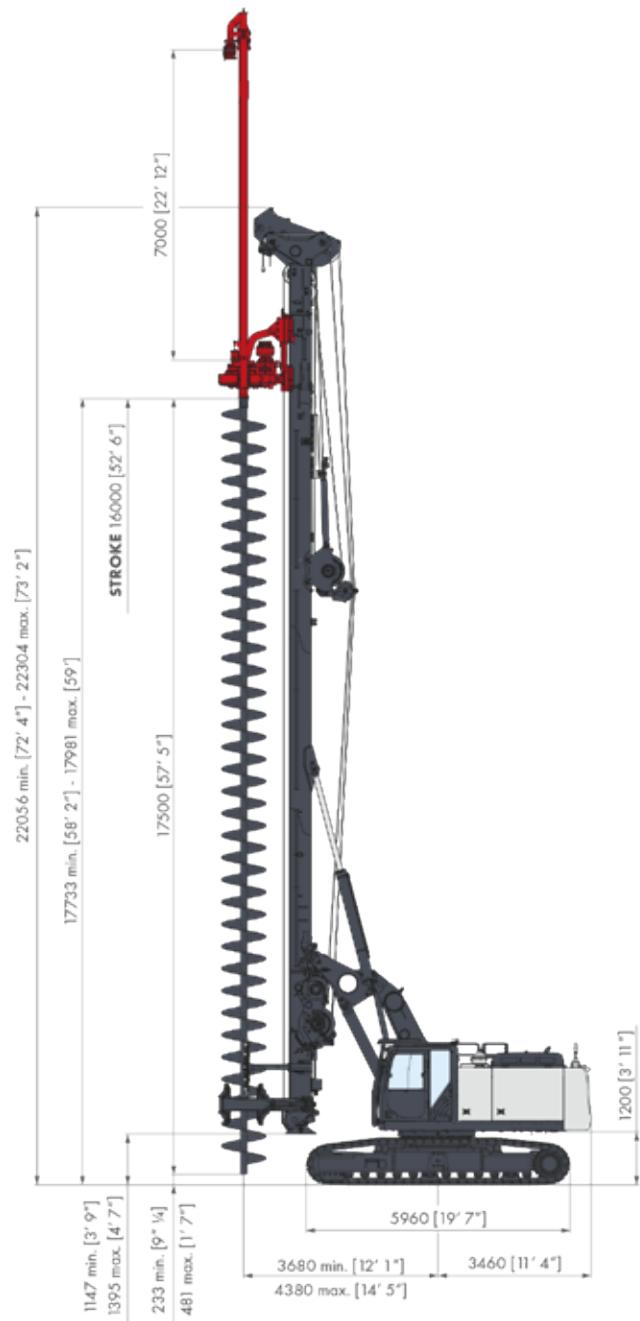
CHF 500



CFA (Continuous Flight Auger)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	184 at 35 MPa	135,700 at 5,080 psi
Max. torque	kNm	lbf-ft	152 at 29 MPa	112,000 at 4,200 psi
Engine power rating	kW	hp	201 - 231 at 2000 rpm	270 - 310 at 2000 rpm
Max. pile diameter	mm	ft-in	1.000	3' 3"
Max. length of augers	mm	ft-in	21.000	69'
Max. pile depth	mm	ft-in	21.000 + 6.000 = 27.000	69' + 19' 8" = 89'
Extraction force	kN	lbs	540	121,400
Crowd force on auger (optional)	kN	lbs	45	10,120
Operating weight w/o tool	ton		46¹	

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

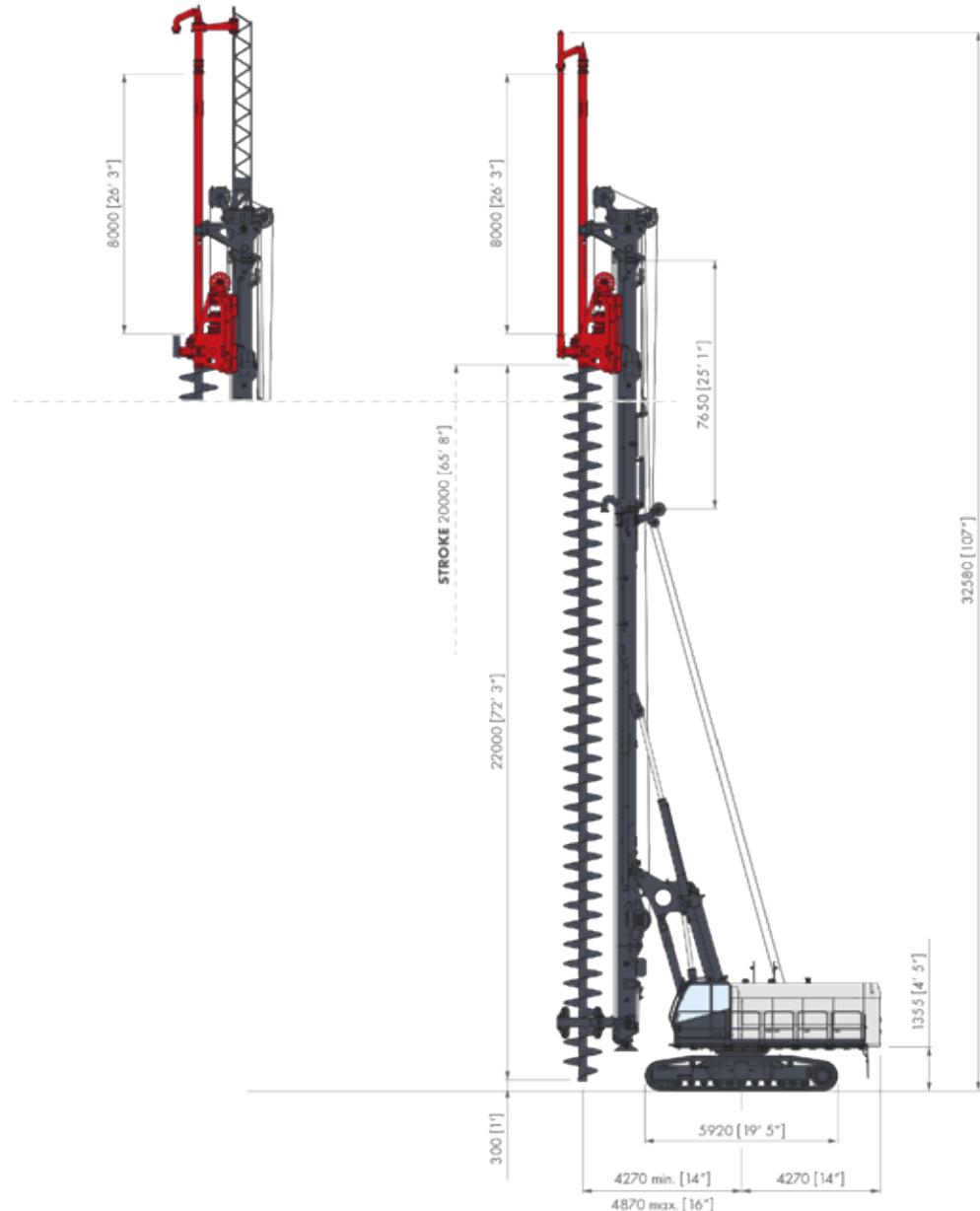
CH 650



CFA (Continuous Flight Auger)	m.s.	i.s.	CFA/CW (Quick Conversion CFA)	
Nominal max. torque	kNm	lbf-ft	262 at 35 MPa	193,200 at 5,080 psi
Max. torque	kNm	lbf-ft	225 at 30 MPa	166,000 at 4,350 psi
Engine power rating	kW	hp	234 - 261 at 1800 rpm	314 - 350 at 1800 rpm
Max. pile diameter	mm	ft-in	1.000	3' 3"
Max. length of augers	mm	ft-in	17.500	57' 5"
Max. pile depth	mm	ft-in	15.500 + 7.000 = 22.500	50' 10" + 22' 11" = 73' 10"
Extraction force	kN	lbs	580	130,400
Crowd force on auger	kN	lbs	140	31,500
Operating weight w/o tool	ton		65,6 ¹	

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

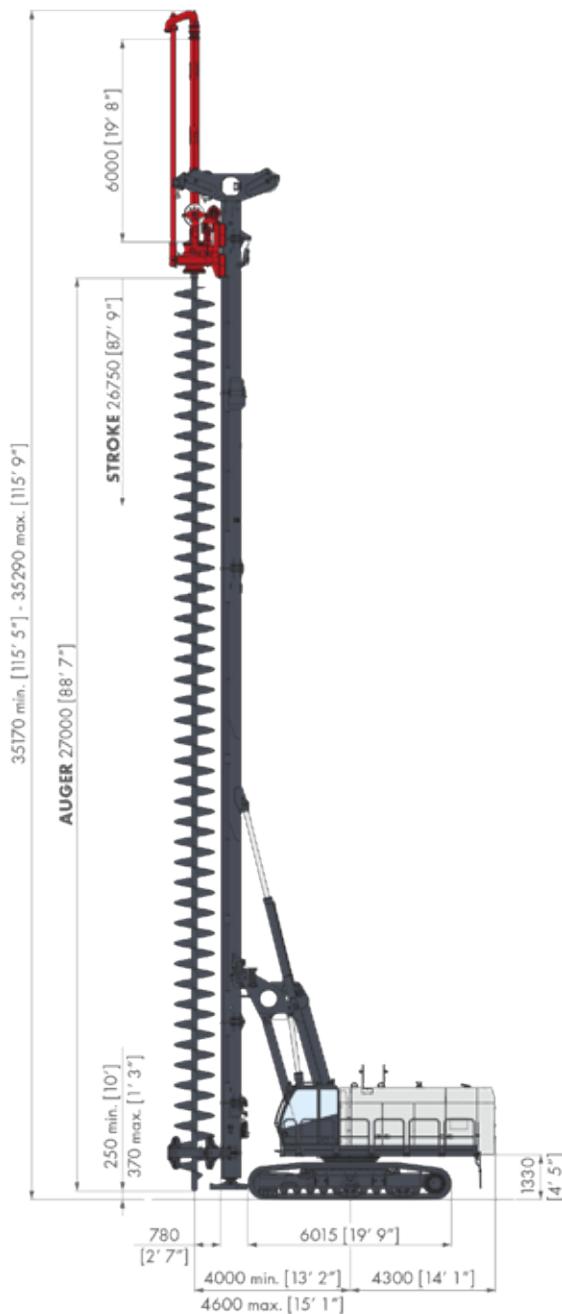
CH 850



CFA (Continuous Flight Auger)	m.s.	i.s.	CFA/CW (Quick Conversion CFA)	
Nominal max. torque	kNm	lbf-ft	360 at 32 MPa	265,522 at 4,641 psi
Max. torque	kNm	lbf-ft	320 at 28,5 MPa	236,020 at 4,134 psi
Engine power rating	kW	hp	345 - 405 at 2000 rpm	436 - 543 at 2000 rpm
Max. pile diameter	mm	ft-in	1.200	3' 11"
Max. length of augers	mm	ft-in	22.000 ¹	72' 2" ¹
Max. pile depth	mm	ft-in	19.700 + 8.000 = 27.700 ¹	64' 7" + 26' 3" = 90' 10" ¹
Extraction force	kN	lbs	945	212,444
Crowd force on auger	kN	lbs	300	67,443
Operating weight w/o tool	ton		92 ²	

NOTE 1 - c/w 7.650 mm (25' 1") mast extension 2 - c/w auger extension, auger cleaner, swivel and swan neck

CHF 900



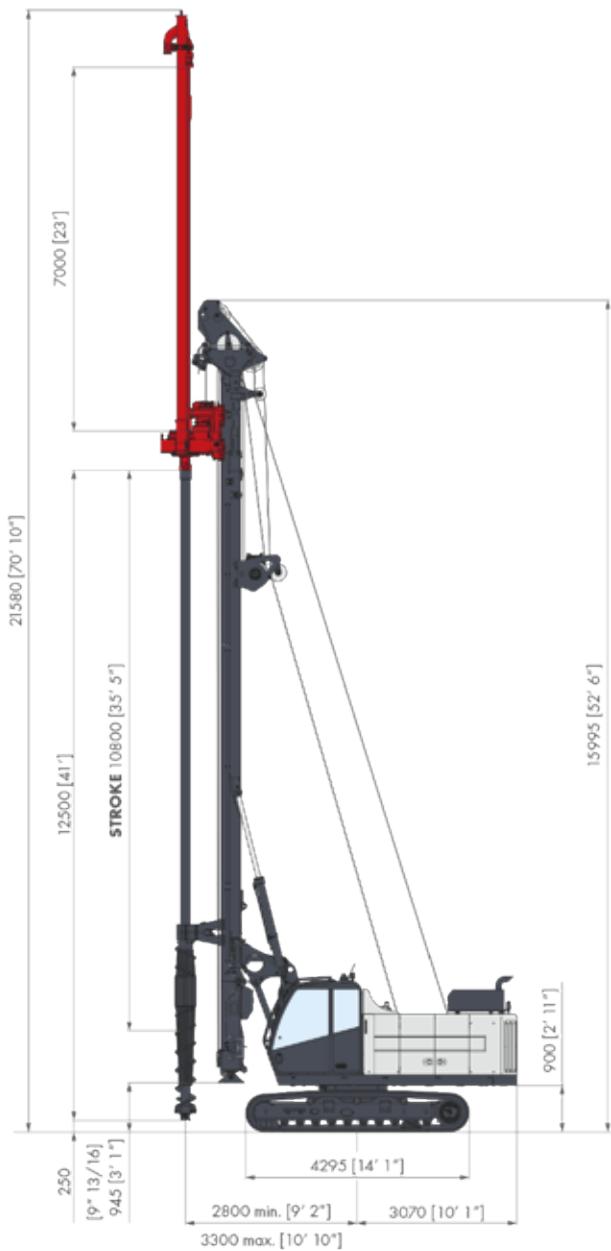
CFA (Continuous Flight Auger)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	280 at 35 MPa	206,500 at 5,080 psi
Max. torque	kNm	lbf-ft	256 at 32 MPa	188,800 at 4,640 psi
Engine power rating	kW	hp	345 - 405 at 1.700 rpm	462 - 543 at 1.700 rpm
Max. pile diameter	mm	ft-in	1.200	3' 11"
Max. length of augers	mm	ft-in	27.000	88' 7"
Max. pile depth	mm	ft-in	26.500 + 6.000 = 32.500	87' + 19' 8" = 106' 82
Extraction force	kN	lbs	1.120	251,800
Crowd force on auger (optional)	kN	lbs	150	33,700
Operating weight w/o tool	ton		86,1¹	

NOTE 1 - c/w auger extension, bottom opening gate and star type auger cleaner

DP/SM

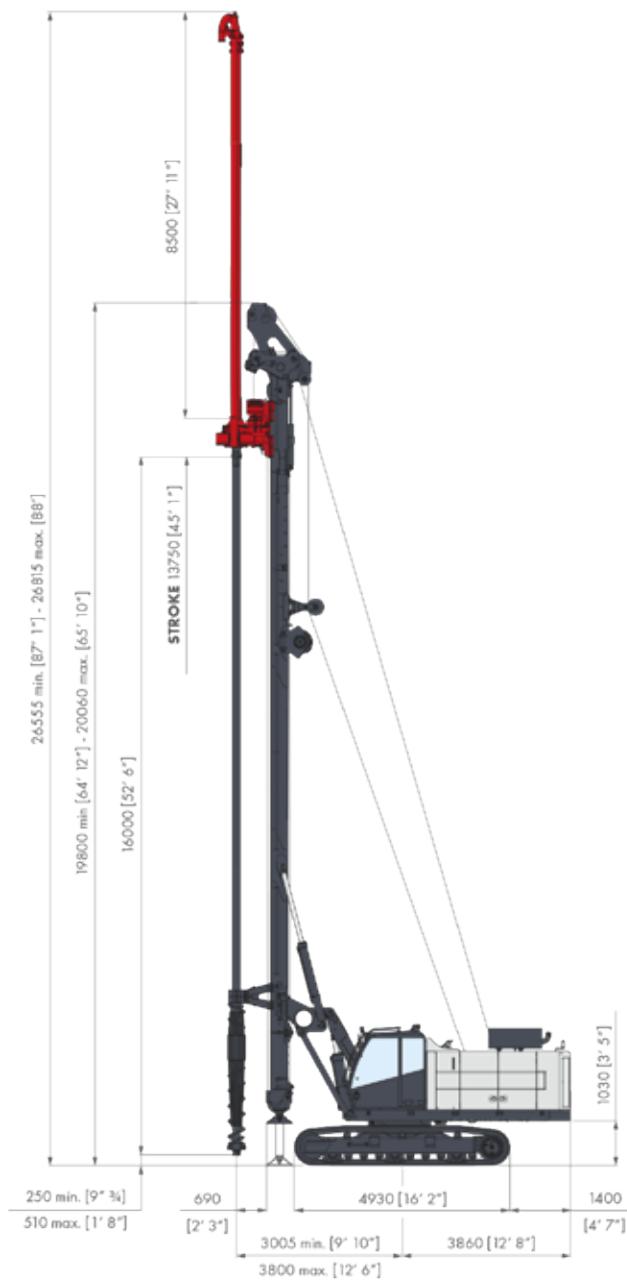


CH 320



DP (Displacement Piles) SM (Soil Mixing)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	132 at 35 MPa	97,300 at 5,076 psi
Max. torque	kNm	lbf-ft	113 at 30 MPa	83,300 at 4,350 psi
Engine power rating	kW	hp	123 - 142 at 2000 rpm	165 - 190 at 2000 rpm
Max. drill string length	mm	ft-in	12.500	41'
Max. length of drill string extension	mm	ft-in	7.000	23'
Max. pile depth	mm	ft-in	10.500 + 7.000 = 17.500	34' 5" + 23' = 57' 5"
Extraction force	kN	lbs	250	56,200
Max. pull down force	kN	lbs	160	36,000
Operating weight w/o tool		ton		27¹
NOTE	1 - c/w 7.000 mm (23') drill string extension			

CH 450



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		41,5¹
NOTE	1 - c/w 8.500 mm (27' 11") drill string extension			

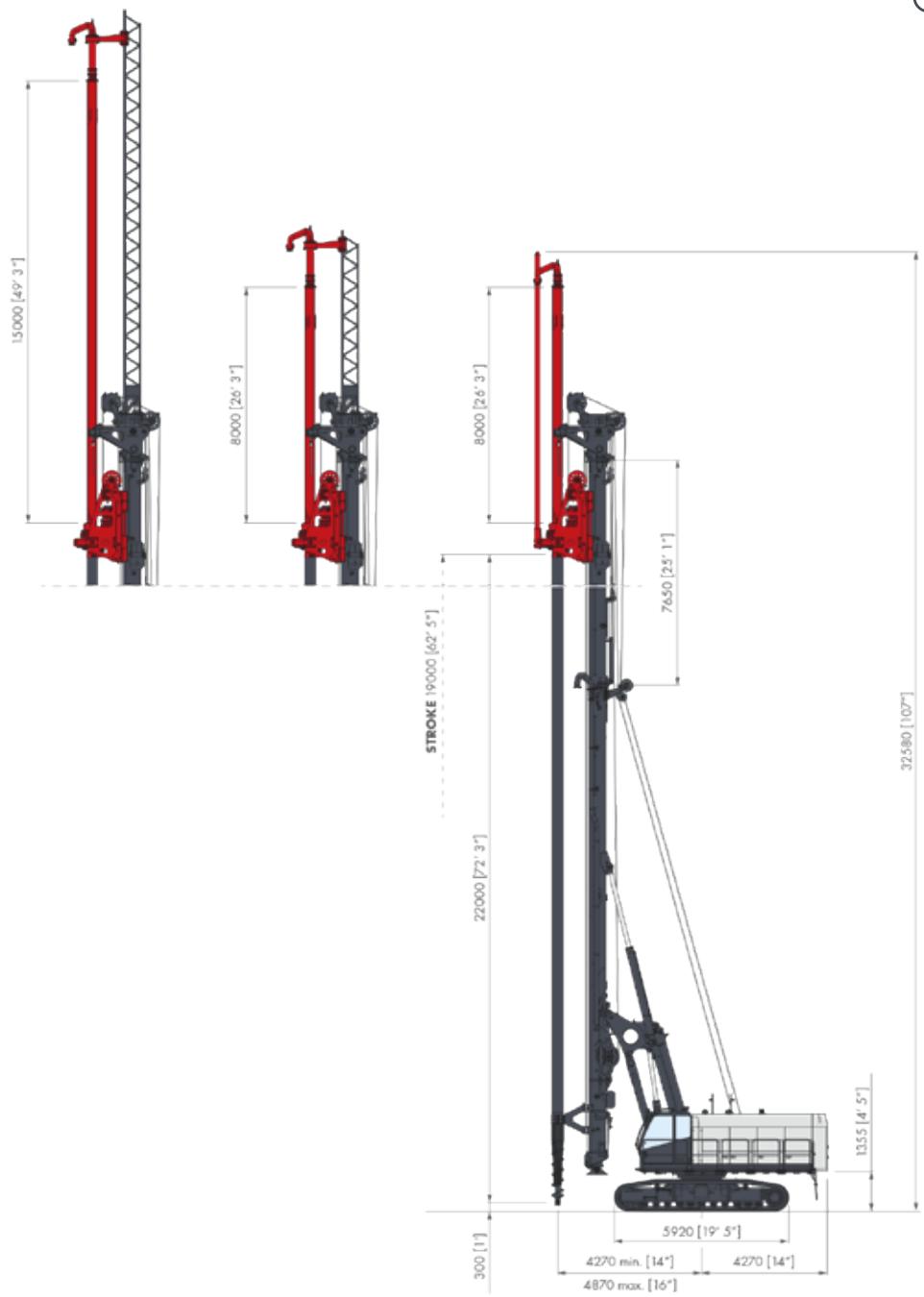
CH 650



DP (Displacement Piles) SM (Soil Mixing)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	262 at 35 MPa	93,200 at 5,080 psi
Max. torque	kNm	lbf-ft	225 at 30 MPa	166,000 at 4,350 psi
Engine power rating	kW	hp	234 - 261 at 1800 rpm	314 - 350 at 1800 rpm
Max. drill string length	mm	ft-in	17.500	57' 5"
Max. length of drill string extension	mm	ft-in	7.000	22' 11"
Max. pile depth	mm	ft-in	14.500 + 7.000 = 21.500	47' 7" + 22' 11" = 70' 6"
Extraction force	kN	lbs	580	130,400
Max. pull down force	kN	lbs	140	31,500
Operating weight w/o tool	ton		60²	

NOTE 1 - c/w 7,000 mm (23') drill string extension

CH 850



DP (Displacement Piles) SM (Soil Mixing)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	360 at 32 MPa	265,522 at 4,641 psi
Max. torque	kNm	lbf-ft	320 at 28,5 MPa	236,020 at 4,134 psi
Engine power rating	kW	hp	345 - 405 at 2000 rpm	436 - 543 at 2000 rpm
Max. drill string length	mm	ft-in	22,000¹	72' 3" ¹
Max. length of drill string extension	mm	ft-in	15,000	49' 2"
Max. pile depth	mm	ft-in	18,700 + 15,000 = 33,700¹	61' 4" + 49' 2" = 110' 6" ¹
Extraction force	kN	lbs	945	212,444
Max. pull down force	kN	lbs	300	67,443
Operating weight w/o tool		ton		91²

NOTE

1 - c/w 7,650 mm (25' 1") mast extension

2 - c/w 8,000 mm (26' 3") drill string extension

CHF 900



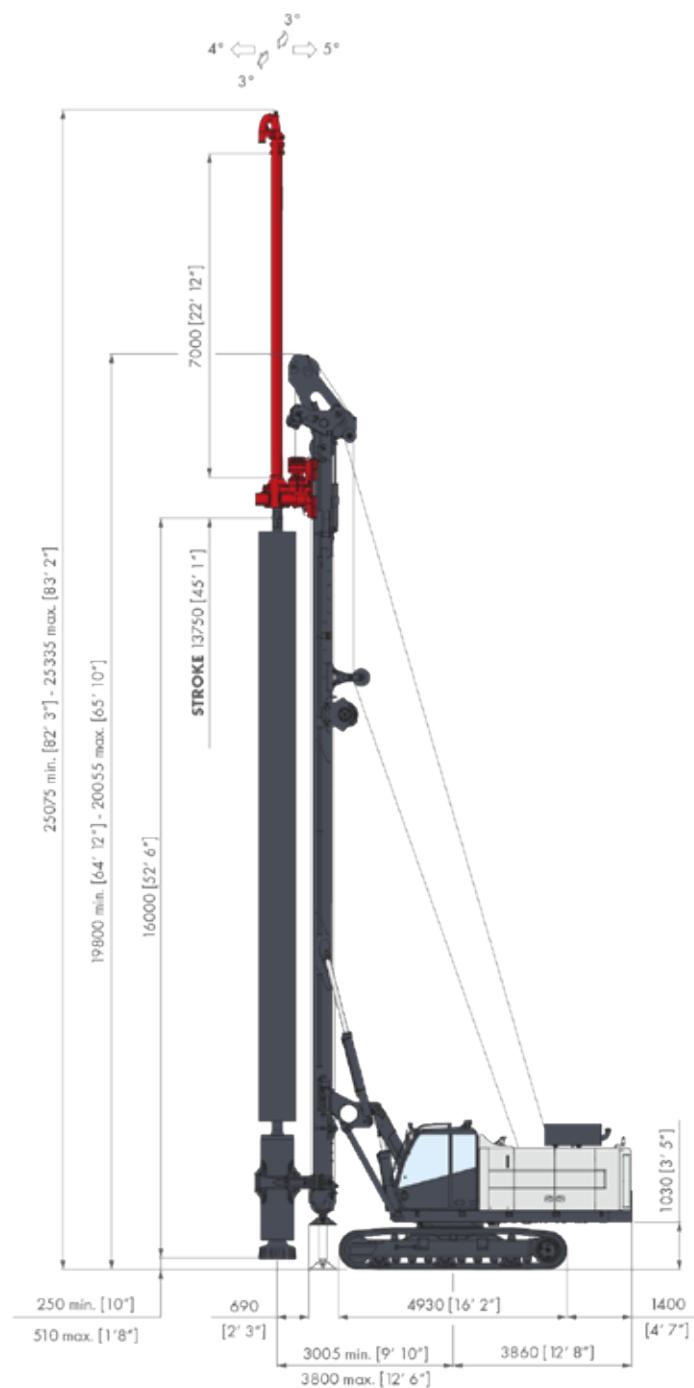
DP (Displacement Piles) SM (Soil Mixing)	m.s.	i.s.		
Nominal max. torque	kNm	lbf-ft	360 at 32 MPa	265,522 at 4,641 psi
Max. torque	kNm	lbf-ft	320 at 28,5 MPa	236,020 at 4,134 psi
Engine power rating	kW	hp	345 - 405 at 2000 rpm	436 - 543 at 2000 rpm
Max. drill string length	mm	ft-in	25.800	84' 7"
Max. length of drill string extension	mm	ft-in	8.000	26' 2"
Max. pile depth	mm	ft-in	24.500 + 8.000 = 32.500	80' 5" + 26'2" = 106' 7"
Extraction force	kN	lbs	442	99,365
Max. pull down force	kN	lbs	210	47,210
Operating weight w/o tool		ton		91,5¹

NOTE | 1 - c/w 8.000 mm (26' 3") drill string extension

LDTH



CH 450



LDTH (Large DTH)	m.s.	i.s.	CH 320		CH 450		CH 650	
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

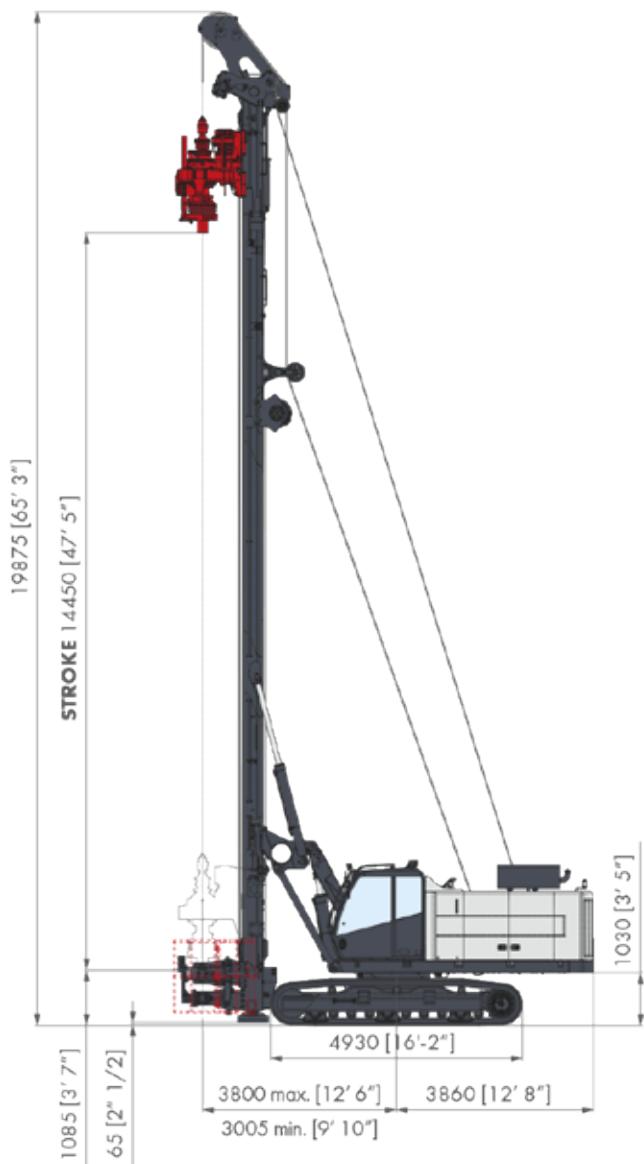
1 - Max. depth is upon drill string weight and diameter

2 - c/w drill string extension

MP



CH 450



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 320 & CH 650 piling rig					



DEEP FOUNDATIONS & GROUND IMPROVEMENT



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