



# SF-120

#### HYDRAULIC ROTARY RIG

Continuous Flight Auger (CFA)

Transport weight

Self-erecting drilling rig dedicated to large diameter CFA and CSP pile drilling.

- A new rig to increase the production capacity in CFA classical technology by drastically reducing the time needed to rig up and rig down even for large piles over 1m diameter.
- A new rig to replace D.W. by cased secant piles executed with high production rate with secured vertical alignment through casing use.

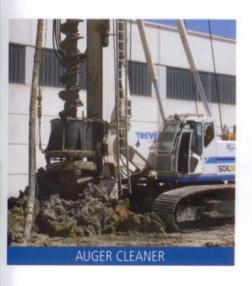
Once more, after CM-48, SF-50 and SF-70, with the introduction of **the new SF-120**, SOILMEC extends the present limits of CFA application allowing the use of self-erecting rigs to very large diameter drilling. Infact the SF-120 combines huge drilling capacities, easy transport and self-erection. No service crane is necessary to mount the machine.

Even for big secant pile diameters as 1000 mm, the new rig is able to double or triple the daily production reached by conventional equipment.

Drilling Performances						
Max pile diameter	mm	1200				
Max pile depth	m	31				
Max pile depth (w. roller type auger cleaner)	m	29				
Max diameter (w. roller type auger cleaner)	mm	1200				
Extraction force	kN	1160				
Cased Secant Pile (CSP)	<b>基本企业企业</b>	<b>新山洋 30</b> 0		É S		
Engine						
Model	1111 (015)	DEUTZ TCD2015 V08				
Max power	kW (HP)	500 (670)				
Hydraulic pumps	STATE OF THE PARTY	THE PLANT	September 1	U W	FULL	
Main pumps and service pumps	lt/min	2X300	90	44	16	
Max working pressure	MPa	30	28		-	
Rotary Table		THE WILLIAM	N. S. C.		B-15	
Max torque	kNm	300				
Maximum drilling speed	rpm	24,2				
Rotary table for casing drilling		Name and Address of the	are dise		Jan H	
Max torque	kNm	440				
Max drilling speed	rpm		6			
Main winch	CONTRACTOR STATE		70 H			
Model			SW290			
1st layer nominal line pull	kN	290				
1st layer nominal rope speed	m/min	62				
Rope diameter	mm	30				
Service winch	THE RESIDENCE OF STREET	A1 15 - 1 15 - 15			MU P	
Model		SW140				
1st layer nominal line pull	kN	140				
1st layer nominal rope speed	m/min	62				
Rope diameter	mm	26				
Undercarriage		A STATE OF THE PARTY OF THE PAR			MANY P	
Overall lenght	mm	6300				
Track shoc width	mm	900				
Overall width (opened tracks)	mm	5000				
Overall width (closed tracks)	mm	# # J # - 18 G	3400	FINE	I Left	
Weights & Dimensions			piller		960	
Transport width	mm	3400				
Transport height	mm	3890				
Operating weight	mm		105			
Town on and considerate	200.000	76				



- 2 Self-lifting counterweight
- 3 Rotating turret powered by DEUTZ TCD 2015 V08 diesel engine complete with soundproof canopy and power pack
- 4 Winch assembly
- **5 Self-erecting mast** which is designed to allow the max. torque along its complete lenght
- 6 Continuous Flight Auger
- 7 Sheave cathead
- 8 Rotary head
- 9 Auger extension
- 10 Openable lower guide
- 11 Foot element
- 12 Rotary casing driver

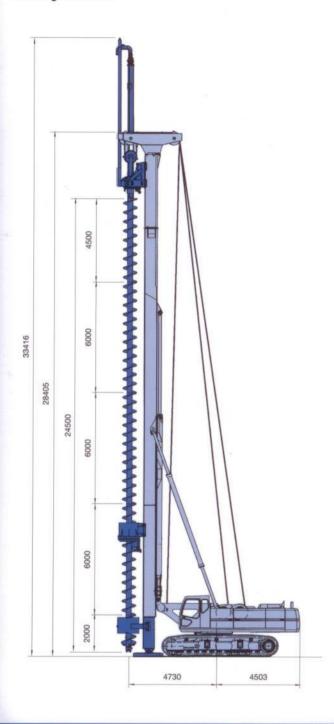


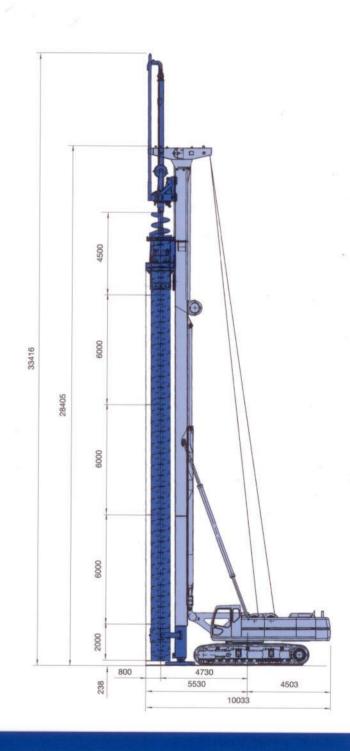


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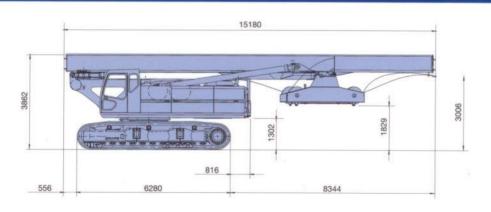
### HYDRAULIC CFA/CSP ROTARY RIG

### **Working Condition**



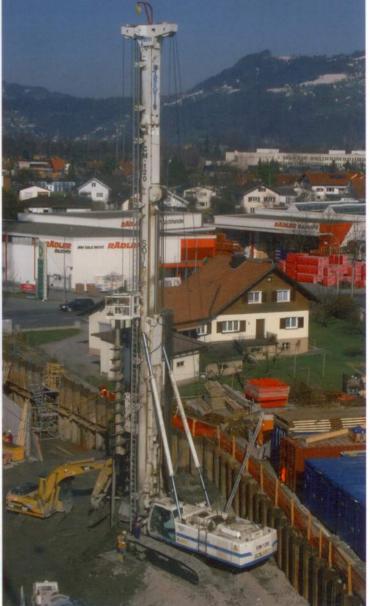


### **Transport Condition**













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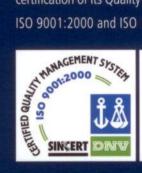
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## **CERTIFIED QUALITY SYSTEM**

In 1990 Soilmec was awarded with the certification of its Quality System complying with ISO 9001:2000 and ISO 14001:2004 standards.





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