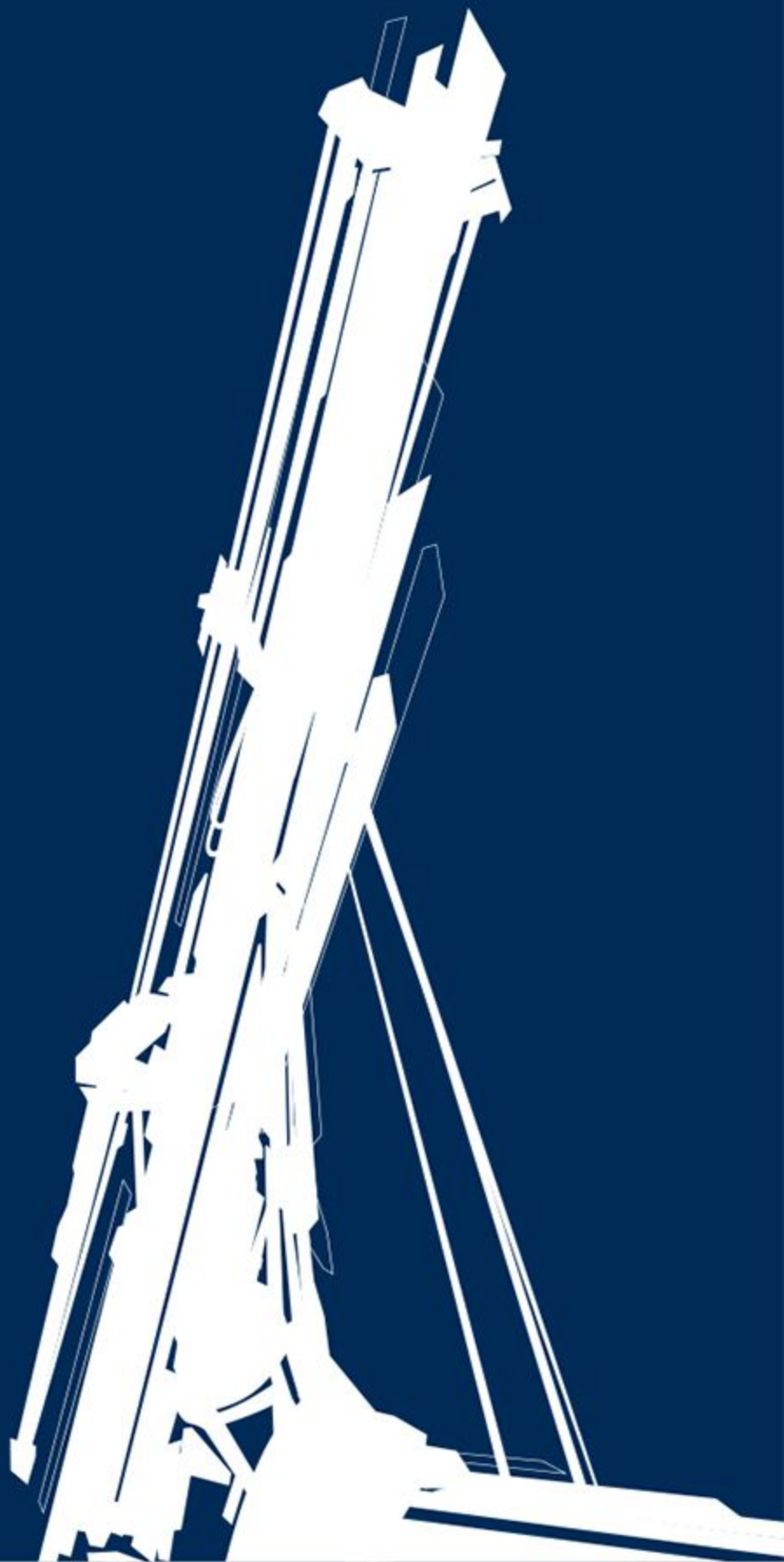


# SR-30

HYDRAULIC ROTARY RIG



# SR-30

## HYDRAULIC DRILLING RIG

### A new model

The SR-30 drilling rig on new SOILMEC turret has been designed to perform the following jobs:

- bored pile with or without drilling fluid;
- continuous flight auger pile (CFA).

The main features of SR-30 are the followings:

- Machine class: 35 tons;
- SOILMEC turret group c/ diesel engine and sound proofed canopy, mounted on a 360 degrees slew ring;
- New electronic Cummins engine QSB 6.7 with max power 275 BHP and meeting latest TIER 3 emission regulations;
- New powerful rotary: 130 kNm, available on request as 3 gear version;
- Self-erecting mast able to withstand the max torque over the whole length;
- Crowd system by 3,5 m hydraulic cylinder;
- Advanced instrumentation, electronic instrumentation w. 10" touch screen
- High productivity;
- Easy to transport, can be transported with rotary table and kelly bar installed;
- Short rig up time, about 20 minutes from arrival on job site;
- Easy to use and handle.

### Large diameter bored pile

Max pile diameter	mm	1500
Max pile depth	m	48
Max torque	kNm	130
Max drilling speed (with standard rotary)	rpm	39
Max drilling speed (with 3 gear high speed rotary)*	rpm	32 / 60 / 106
Spin off speed	rpm	143
Main winch line pull	kN	135
Service winch line pull	kN	65
Engine <sup>1</sup>	type	CUMMINS QSB 6.7
Max Power	kW (BHP)	205 (275) @ 2500 rpm
Cylinder crowd (Pull up/down force on kelly)	kN	124 / 102
Stroke	mm	3500
Operating weight (c/w kelly and c/w tool) <sup>2</sup>	ton	37,5
Transport weight (c/w kelly)	ton	36,5

The nominal values are referred to 100% total efficiency. / <sup>1</sup> Meeting the EPA-TIER3 emission regulations. / <sup>2</sup> Weight is based on final configuration.

### Continuous Flight Auger (CFA)

Max pile diameter	mm	750
Max pile depth <sup>1</sup>	m	19 / 16 / 13
Max extraction force	kN	380
Max torque	kNm	121
Operating weight <sup>2</sup>	ton	36

<sup>1</sup> Pile depth depends on sleeve length. / <sup>2</sup> Weight is based on final configuration.

### \* 3 gear high speed rotary

		1°	2°	3°
Max drilling speed	rpm	32	60	106
Max torque	kNm	121	65	18



- 1 - **Undercarriage** with expandable tracks from 2,55 to 3,7 m by means of hydraulic cylinders.
- 2 - **Soilmec turret** CUMMINS QSB 6.7 engine and sound proofed canopy, mounted on a 360 degrees slew ring.
- 3 - **Winch** assembly.
- 4 - **Parallelogram system** which allows various working radius and always maintaining the mast in vertical position. C/w electronic device for automatic stop.
- 5 - **Self-erecting mast** which can withstand the max torque over the whole length. It is composed by 11,9 m intermediate element and 3,5 m top element.
- 6 - **Sheave cathead.**
- 7 - **Crowd system** by 3,5 m hydraulic cylinder.
- 8 - **Rotary head** with 3 hydraulically shifted drilling speeds and one high speed spin-off. On request a gear with 3 mechanical shifts is available.
- 9 - **Telescopic kelly bar** with guide on mast either available friction or mechanical locking type.
- 10 - **Touch screen display 10"**. Drilling Mate System with drill data storage available.



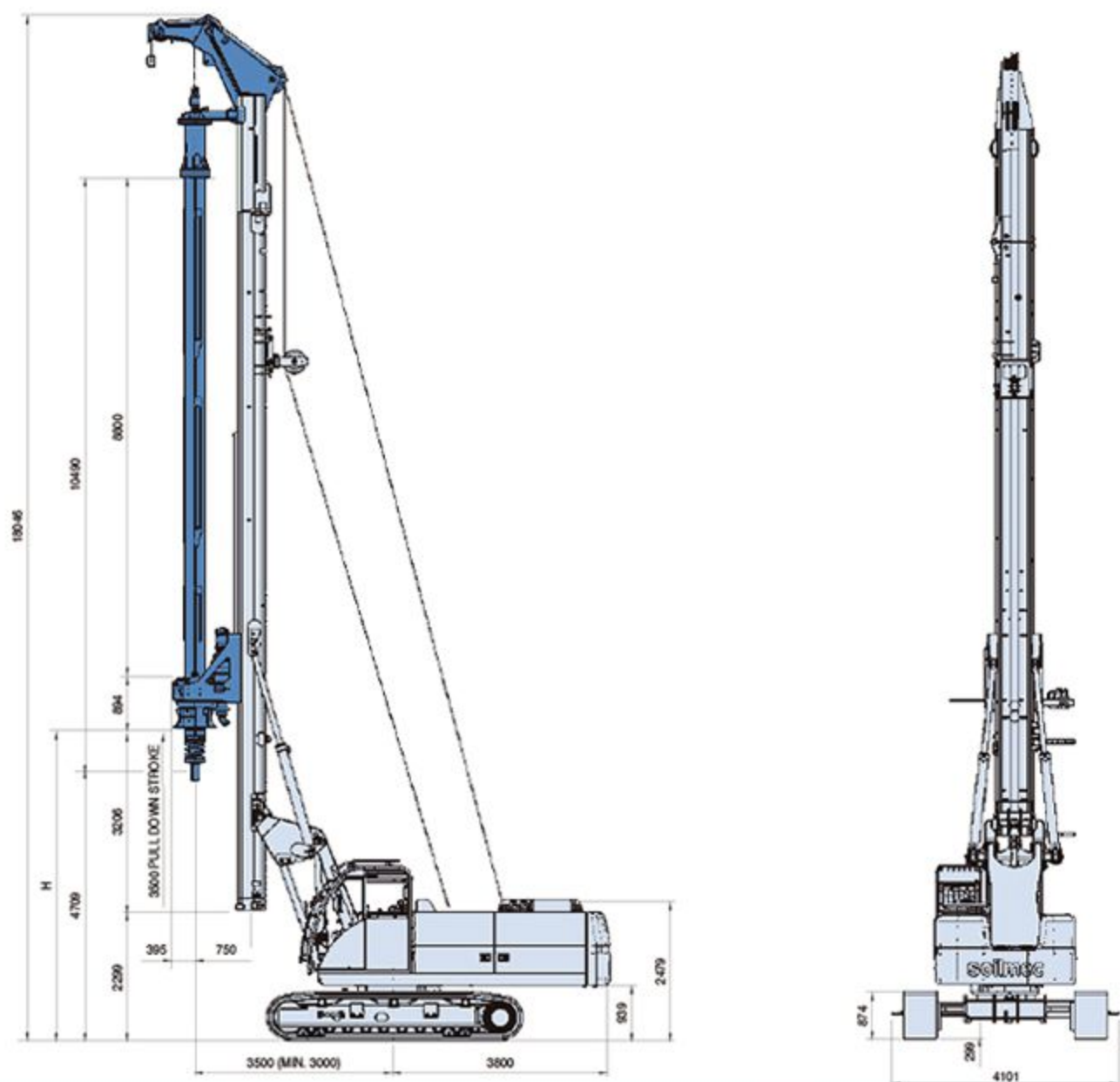
New cab w. Drilling Mate System



# SR-30

## LARGE DIAMETER BORED PILES

### Working Condition



### Kelly Bars

#### Mechanical locking kelly bar – Ø 355 mm

elements n°	length m	depth m	weight ton	H height m
4x	7,5	25,0	2,9	5,0
4x	9,0	34,0	3,3	5,0
4x	11,0	38,0	3,9	4,6

H= Kelly stub height from ground level

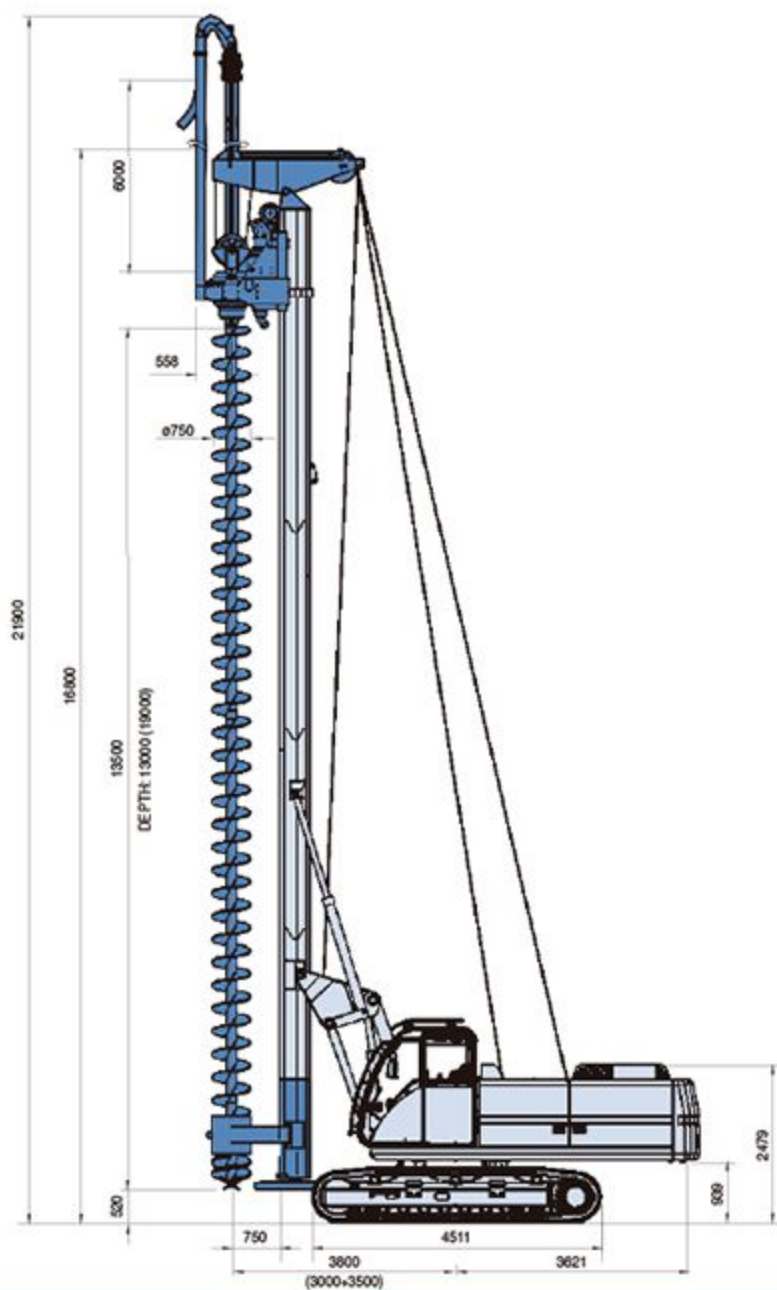
#### Friction kelly bar – Ø 355 mm

elements n°	length m	depth m	weight ton	H height m
4x	6,0	19,0	2,4	5,0
4x	7,5	25,0	2,9	5,0
4x	9,0	32,0	3,3	5,0
4x	11,0	39,0	3,9	4,6
5x	9,0	40,0	4,3	5,0
5x	11,0	48,0	5,1	4,6

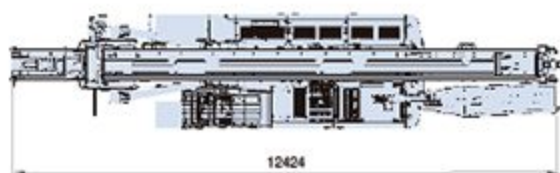
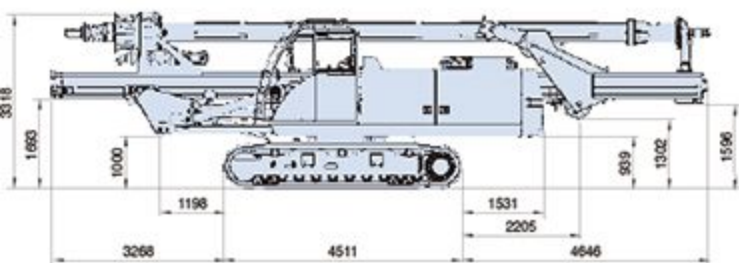
# SR-30

CFA version

## Working Condition



## Transport Conditions LDP











SOILMEC distributes machinery and structures all over the world, supported by SOILMEC subsidiary companies and representative offices as:

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



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All technical data are purely indicative and subject to change without notice

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