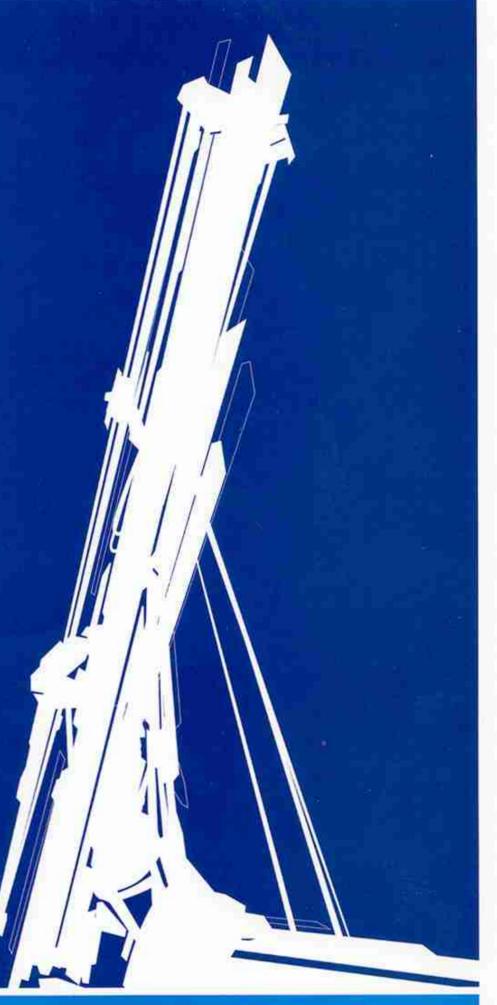
R-625
HYDRAULIC ROTARY RIG





MAIN FEATURES

- 1 Undercarriage with expandable tracks from 2.9 to 4.2 m by means of hydraulic cylinders
- 2 Turret c/w DEUTZ BF6M1015C diesel engine and sound proofed canopy, mounted on a 360° slew ring
- 3 Winch assembly
- 4 Parallelogram system allowing working radius adjustment always maintaining the mast in vertical position.
 C/w electronic device for automatic stop
- 5 Self-erecting mast composed by an intermediate element 13.5 m long and a top element with 1,5 m extension.

 The max torque can be applied all over the mast length
- 6 Sheave cathead
- **7 Crowd system** by means of 6.5 m stroke hydraulic cylinder
- **8 Rotary head** with variable displacement motors and one high spin off speed.
- 9 Telescopic kelly bar with guide to mast, available with friction or mechanical locking type



HYDRAULIC ROTARY RIG

A new model

SOILMEC electronic

monitoring system

The hydraulic drilling rig R-625 is mounted on SOILMEC base carrier and has been specially designed for suiting the following applications:

- cased bore piles with casing driven directly through rotary head or optionally by casing oscillator powered by the base carrier itself;
- very deep bored piles stabilized by drilling fluid or dry hole;

- CFA pile by means of very long auger string (19,5 m + 6 m extension);

- CSP/CAP pile with double rotary;

- discrepiles and Soilmixing;

reverse circulation;

- it can be converted to work with an hydraulic grab for diaphragm walls.

The R-625 main features are the following:

- 170 ton class machine;
- new powerful rotary achieving 240 kNm max torque;

- modern electronic instrumentation;

- min. transport weight: 51.5 ton (with tracks, counterweight, rotary and kelly bar removed).

Option features:

- pre-arrangement for casing oscillator;

central lubrification;

- service winch free-fall option:
- line pull indicator for auxiliary winch;

Max nominal extraction force

Machine weight, approx

- crowd winch force monitoring;

- automatic casing drive adapter;

- SOILMEC electronic monitoring system on 10" touch screen for monitoring and control of the operating parameters. Memo-block for acquisition of data and software for processing them on PC station. On request data transfer via GSM/GPRS with "calling on trouble" option.

Max pile diameter	mm	2500
Max cased diameter	mm	2000
Max pile depth	m	77
Max nominal torque	kNm	240
Max drilling speed	rpm	30
Spin off speed	rpm	140
Main winch nominal line pull	kN	240 (opt. 200)
Auxiliary winch nominal line pull	kN	140
Engine	type	DEUTZ BF6M1015C
Power	kW (BHP)	300 (408) @ 2100 rpm
Crowd system	kN	264 / 201
Crowd stroke	mm	6500
Main twin pumps	Vmin	2 x 280
Operating weight	tons	70 - 72
oad diesel exaust regulation compliance (EU-97/68/CE, U.S.A EPA; california - CARB)		The naminal values are reformed to 100% total efficient

kN

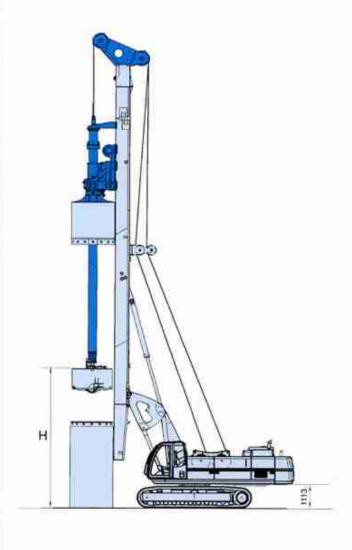
tons

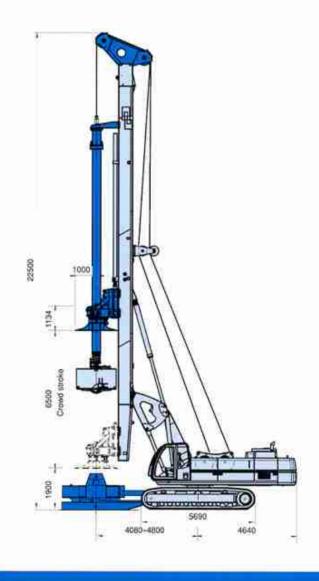
256

	Max pile diameter	mm	1200
	Max pile depth	m	25,5 (19,5+6)
	Max nominal extraction force	kN	732
	Machine weight, approx	tons	70
	Cased Secant Piles (CSP/CAP)		
	Max pile diameter	mm	1000
	Max pile depth	m	21,5 (15 cased)
	Casing pull up/down	kN	320
THE RESERVE AND ADDRESS.	Second rotary	kNm	162 @ 7 rpm
All Indiana	Max nominal extraction force	kN	732
	Max casing speed	rpm	24
- 1-	Machine weight, approx	tons	75 - 78
OF CHARLES	Reverse Circulation (RC)		
Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the O	Max pile diameter	mm	2000
	Max pile depth	m	50
	Max nominal extraction force	kN	360
	Machine weight, approx	tons	75
10 to	Diaphragm Walls (BH)		
Control of the last	Max section (excavation)	mm	3000x1000
** *** ** **	Max wall depth	m	50
CONTRACT TO THE PARTY OF THE PA		2000	4161-4

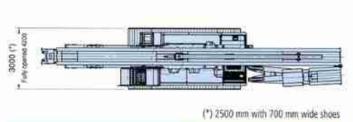
LARGE DIAMETER BORED PILE

Working Condition

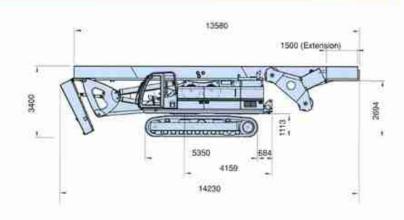




Transport Condition

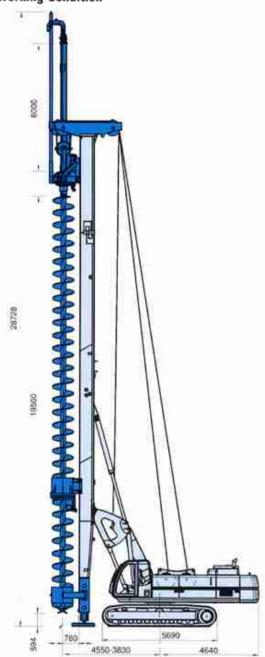


Weights		
Weight with 13,5 m mast section and 1,5 m extension only	kg	47.500
Weight without kelly and counterweight (rotary on)	Lini I	55,000

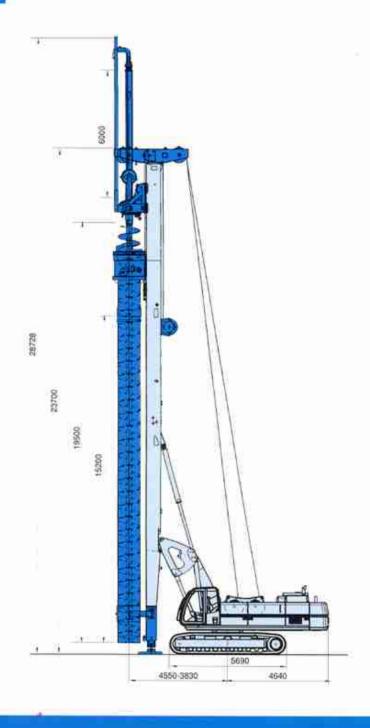


CFA-CSP/CAP

Working Condition



Max. Depth without cleaner: 25.5 m Max. Diameter 1200 mm



Kelly Bars

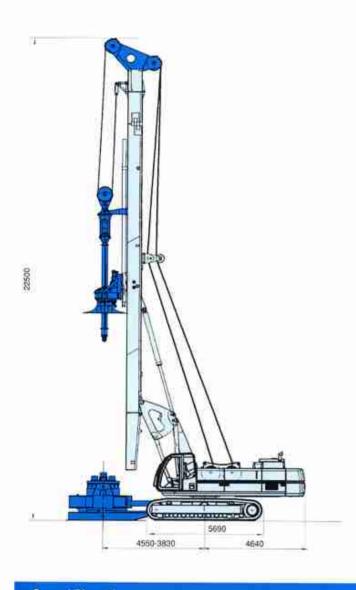
Mechanical locking kelly bar - Ø 406 mm				
elmeon	length m	esoth M	weight ton	H heghi m
4x	10,5	37,0	5800	9,2
-Ax	11,5	41.0	6300	8,1
4x	13,5	49,5	7200	6,0
4x	15,5	58,0	8200	3,9
4x	16,5	62,0	8700	2,9

Standard dimension of tool connection is 150x150 mm H= kelly stub height from ground level

The don't	elly bar – Ø	Technin.		
elements ,ri	length Ti	depth m	weight ton	H height M
4x	10,5	37.0	5700	9,2
4x	11,5	41.0	6200	8,1
4x	13,5	50.0	7100	6,0
4x	15,5	58.0	8000	3,9
4x	16,5	62.0	8500	2,9
5x	10,5	46.0	5500	9,2
5x	11,5	51.5	6000	8,1
5x	13,5	62.0	6900	6,0
5x	15,5	72.0	7900	3,9
5x	16,5	77.0	8400	2,9

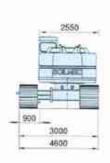
RC-BH

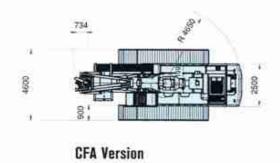
Working Condition





General Dimensions













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

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SOILMEC (H.K.) Limited - Hong Kong

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CERTIFIED QUALITY SYSTEM

In 1990 Soilmec was awarded the certification of its own Quality System to ISO 9001/UNI 29001 series standards.







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