

# Hydraulic Piling rig Tes Car mod. CF 4

## Technical data

<b>Engine</b>		
Diesel water cooled	Type	CAT C4.4 ACERT
Power installed at 2300 rpm	Kw/HP	106Kw / 142HP
Insonorization Lpa / Lwa		
Hydraulic plant open type with 1 hydraulic pump by pistons with changeable cubic capacity		95 dm3
Hydraulic distributors servo-assisted		
Tier 3 and Euro 3 certificate		
Fuel tank	l	170
<b>Operator Cabin</b>		
Operator cabin mounted on silent blocks with adjustable seat, radio-CD player, air conditioner, rear and side windows, sound-proofed and complete with protective screens and tool box. Depth and Verticality gauge system on board.		
<b>Hydraulic rotary head</b>		
Rotary head on sliding trolley with No.1 hydraulic motor:		
Torque	Kgm/kN	4'000/40
1 <sup>st</sup> Drilling speed	rpm	14
Unload speed	rpm	60
<b>Crowd cylinder</b>		
Pull Down force	kN	130
Extraction force	kN	80
Stroke	mm	1'500
<b>Winches</b>		
Main winch Tes Car type with free fall, Driven by a hydraulic engine by pistons with Changeable cubic capacity, complete with By-pass option for the free fall during the drilling: This control is activated by the operator and is protected by a security system.		
Main		
- cable	mm	16
- pull	ton	4,7
2 <sup>nd</sup>		
- cable	mm	14
- pull	ton	2,5
<b>Electric plant</b>		
The electric plant is at 12V. It's equipped with electric starter, fuses box as protection of battery de-connector.		
<b>Hydraulic servo-controlled plant</b>		
Main pumps with pistons		
Capacity		
Auxiliary pump with pistons		
Capacity		
Hydraulic oil tank capacity	l	240
Working pressure	bar	250

<b>Superior Structure</b>		
Fabricated steel upper structure mounted on heavy duty 360° slewing ring driven by a motor.		
Mechanic blocks on the mast for the transport;		
<b>Mast Group</b>		
Box section steel mast made of a main element and no.1 extension, for a total length of 8,1 m complete with:		
Cathead with pulley for main and auxiliary winches;		
Heavy duty parallelogram type mast support complete with lifting and positioning cylinders		
Mast inferior support fixed on the chassis of the rig.		
Possibility of 3° lateral inclination of the mast		
In working position, in front-back, right –left.		
The 2 lifting cylinders are equipped with		
Security stopping valves.		
<b>Kelly Bar Bored Piling Kit</b>		
Rotary reduction complete with drive sleeves, hydraulic hoses, damping ring and lower flange		
Interlocking Kelly Bar 6 x 5.250mm		
Outer pipe diameter	mm	323
Drive Keys	n	3
Total depth	m	28
Square joint section	mm	130x130
Upper kelly bar guide		
<b>Extendable Crawlers</b>		
Length	mm	2930
Minimum width	mm	2200
Maximum width	mm	2900
Crawler width	mm	500
<b>Weight and dimension for transport</b>		
Length	mm	8750
Min. Width	mm	2200
Min. Height	mm	3000
Total weight	ton	15
<b>Painting</b> in Tes Car colours or customer colours		

### **Optional KITS:**

- 1) **CFA Kit** (12m depth, max Ø 600mm)
- 2) **Slurry Wall Kit** (with grabs 2000x600mm)
- 3) **Micropiles/Geothermal power Kit** (also with double rotary head and automatic loader)
- 4) **Impact Hammer Kit** (with 2t FAMBO hammer)
- 5) **Vibro-Hammer Kit**
- 6) **Directional Drilling Kit**
- 7) **Soil Mixing Kit**
- 8) **Truck mounted Kit**