Well Equipment International S.r.l.
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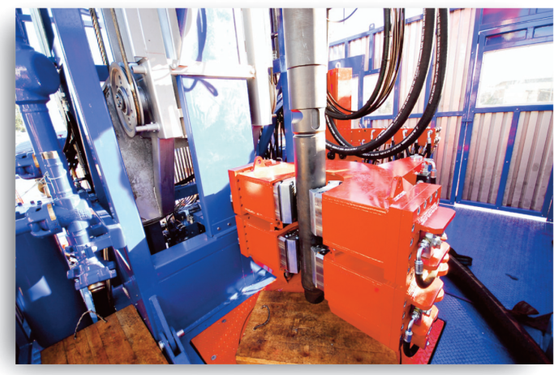
WEI DS 205-22 LT - D.P. Loading

WEI Drill Pipe Elevator up to 350 MT (patented)



WEI DS 250 - Power Tong

Since its creation, W.E.I. has presented itself as an industrial organisation resulting from forty years' experience in constructing drilling rigs and equipment for drilling.
The company began exactly twenty years ago on the basis of the trust offered by its clients and now offers good ideas both nationally and internationally, which result from basic and well-defined operational criteria:
- *exploit what has been learnt in the past in order to build machines which meet the needs of the present and could take advantage of opportunities arising in the future;*
- *seek a total quality, not as a goal but as a starting-point for each project.*

These twenty years operations have been carried out bearing in mind the principles which have protected W.E.I. and which it strongly believes in. As a result of this growing specialisation, the range of products has been widened bit by bit to include the construction of drilling rigs both for water, gas , geothermal and oil industry. This has been made possible owing to an efficient technical office, and to the companies W.E.I. operates with.
A number of important projects have had their origins in this collaboration , including Derricks, with one of the highest capacities in the world, modular plant which can be assembled on fixed platforms, Mast and substructures and many innovative product patented by WEI.
This technology has placed W.E.I. at a high level globally.
W.E.I. continues to look ahead, as it has done in these last twenty years, by seeking to create ambitious projects and investing in advanced technology and highly trained personnel.

WEI - Commisioning Test

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DS 205 ÷ 250 SERIES HYDRAULIC DRILLING RIGS

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WEI DS 205-22LT Drilling Rig

W.E.I. has designed and manufactured its 205-250 series hydraulic drilling rigs seeking to achieve all customer needs and desires.
These rigs up to 205-250 MT hook load capacity have 16mt or 22mt stroke for working with double R2 drill pipes.
These completely hydraulic driven rigs have high performances both in drilling and in work-over activities, and they are mounted on a semitrailer and self transported.
They are engineered and constructed to operate in every climate area, from -40° C till + 60°C working temperature, in hazardous zone and severe conditions.
The simplicity of their manufacture allows to save time in the rig-up and rig-down operations, thanks to the lack of guy lines and bolts, and consequently the personnel and the management costs are reduced.
Thanks to its reduced dimensions, the DS 205-250 series rigs are easy to be transported on all European roads even if their features are similar to a twice bigger rigs.
The series with 16mt stroke have semiautomatic manipulator for Range 2 and Range 3, the 22mt stroke rig have a semi-automatic manipulator for R2, R3 and double R2. Both the manipulators feed a drill pipe/CSG in 28 seconds and finish the complete operation of lifting and connecting drill pipes/CSG in less than 60 seconds.
All 205-250 drilling rigs are complete with Hydraulic Elevator for Drill Pipes and casing till 20". This device, patented by W.E.I., is very useful to avoid to screw and unscrew the DP and Casing every time during drilling and tripping . Moreover, beyond the time saving during the operations, the WEI elevators highly increase the safety factor, since there is no need of the operator presence on the drill floor

WEI DS 250 LT Drilling Rig

WEI DS 205 Drilling Rig

MAIN FEATURES	WEI DS205 HYDRAULIC DRILLING RIG	WEI DS205 22LT HYDRAULIC DRILLING RIG	WEI DS250 LT HYDRAULIC DRILLING RIG
DRILLING :			
Drilling	10,500 ft (3,200m) 5" – 19.5 lbs D.P. 12,000 ft (3,650m) 4.1/2" – 16.6 lbs D.P.	10,500 ft (3,200m) 5" – 19.5 lbs D.P. 12,000 ft (3,650m) 4.1/2" – 16.6 lbs D.P.	12,800 ft (3,900m) 5" – 19.5 lbs D.P. 14,600 ft (4,450m) 4.1/2" – 16.6 lbs D.P.
Workover	20,000 ft (6,100m) 3.1/2" – 13.3 lbs D.P.	20,000 ft (6,100m) 3.1/2" – 13.3 lbs D.P.	24,400 ft (7,440m) 3.1/2" – 13.3 lbs D.P.
Well service	26,000 ft (7,900m) 3.1/2" – 8.7 lbs Tbg.	26,000 ft (7,900m) 3.1/2" – 8.7 lbs Tbg.	31,700 ft (9,665m) 3.1/2" – 8.7 lbs Tbg.
HOISTING :			
Max pull up	205MT (225 short tons) With max Low speed 0.6 m/s 102 MT (112 short tons) With max high Speed 1,2 m/s	205MT (225 short tons) With max Low speed 0.6 m/s 102 MT (112 short tons) With max high Speed 1,2 m/s	250MT (275 short tons) With max Low speed 0.6 m/s 125 MT (137 short tons) With max high Speed 1,2 m/s
Lowering Max Speed	1.2 m/s	1.2 m/s	1.2 m/s
Max Pull Down	25 MT	25 MT	25 MT
TOP DRIVE :			
Max Torque	28,400 ft-lb (3,900daNm) With Max Low speed 100 RPM	28,400 ft-lb (3,900daNm) With Max Low speed 100 RPM	43,000 ft-lb (5,900daNm) With Max Low speed 58 RPM
Max Torque	15,300 ft-lb (2,100 daNm) With Max High Speed 180 RPM	15,300 ft-lb (2,100 daNm) With Max High Speed 180 RPM	12,750 ft-lb (1,750 daNm) With Max High Speed 180 RPM
Fluid Passage	3" (76mm)	3" (76mm)	3" (76mm)
Pin size connection	6.5/8" Reg.	6.5/8" Reg.	6.5/8" Reg.
Tilting type	Included	Included	Included
Drilling load	205 MT (225 short tons)	205 MT (225 short tons)	250 MT (275 short tons)
Total stroke on Vertical mast	52' – 6" (16m) (Range 3 D.P.)	72' - 2" (22m) (Range 3 D.P.) (2 x Range 2 D.P.)	52' – 6" (16m) (Range 3 D.P.)
SUB-STRUCTURE / DRILL FLOOR :			
Casing Capacity	205 MT (451.950 lbs)	205 MT (451.950 lbs)	250 MT (275 short tons)
Standard height	20' (6.10 m)	20' (6.10 m)	20' (6.10 m)
Optional height			
Full passage clamp	40" (1.016mm)	40" (1.016mm)	40" (1.016mm)
HYDRAULIC POWER UNIT :			
Power	630 HP x 2 at 1800 RPM (Total 1260 HP)	640 HP x 2 at 1800 RPM (Total 1260 HP)	750 HP x 2 at 1800 RPM (Total 1500 HP)
Max	2,160 l/min at 350 Bar	2,160 l/min at 350 Bar	2,800 l/min at 350 Bar
Oil Tank capacity	6.000 litres	6.000 litres	8.000 litres
POWER TONG :			
Maximum Make			
Up-brake out	16,000 daNm	16,000 daNm	16,000 daNm
Vertical stroke	27" (700 mm)	27" (700 mm)	27" (700 mm)
Passage	3.1/2" – 13.3/8"	3.1/2" – 13.3/8"	3.1/2" – 13.3/8"
SERVICE JIB CRANE :			
Max Load Capacity	5 MT	5 MT	5 MT
Max Speed	0.6 m/sec	0.6 m/sec	0.6 m/sec
Rotation	90°	90°	90°
ROTARY TABLE :			
Optional Hydraulically Driven			
Size	27.1/2"	27.1/2"	27.1/2"
Max Torque	1,400 daNm	1,400 daNm	1,400 daNm
Max RPM	90	90	90

WEI DS 205 LT Drilling Rig