

Modern concept of Piling Rig which includes specific features such as

Full PLC (Programmable Logic Controller) system working in combination with the hydraulic circuit

New patented system for opening and closing doors for easy access to engine and major hydraulic parts. The patented system provides also safety for the technical and low noise emission levels

New cabin designed for full comfort of operators.

Self-erecting piling rig, the B175 XP can be equipped with:

Telescopic Kelly bars for a maximum borehole dia of 1500mm

CFA (Continuous Flight Augers) having maximum dia of 900 mm

KRC1 Diaphragm wall equipment until 800 mm trench wide and 29m depth

Operating weight (according to the working arrangements) – 33 to 41 ton

Maximum torque of rotary head 175 kNm.

Undercarriage with hydraulically extendable tracks

Width closed: 2500 mm

Width open: 3700 mm

Total length: 4500 mm

Width of pads: 600 mm

Fabricated steel upper structure frame suitable for CE markings, mounted on a heavy duty, 360° slewing ring.

The operator's cabin, designed according to modern ergonomics practice, is mounted on silent blocks to isolate it from vibrations. Adjustable sea, radio and CD player, electric windscreen wipers, front and side windows, sound proofed arrangements and protective screens ensure operator comfort and safety. Air conditioning.

Electronic handling of the machine.

10.4" graphic colour display to show working parameters ; complete engine and electric system check-up.

Mast lifting and lowering aid, drilling depth measurement and automatic verticality system for mast.

Power unit with water-cooled, turbocharged diesel engine model Cummins QSB 6.7 with Intercooler

Certification EU STAGE IV - US EPA TIER 4 final

Rated power: 194 kW (260 HP) at 2200 rpm

Fuel tank capacity: 280 litres

Open circuit hydraulic system with two main variable displacement piston pumps with Load Sensing control capacity 2 x 210 l/min.

max pressure 350 bar

Hydraulic oil tank capacity: 330 litres.

#### ARRANGEMENT FOR PILES AND DIAPHRAGM WALLS

Main winch, controlled load-lowering type, driven by a fixed displacement, hydraulic axial piston motor. Fitted with a by-pass to release the rope when drilling (the by-pass is activated by the operator and is protected by a safety device).

Nominal line pull: 160 kN

Rope diameter: 24 mm

Max speed: 72 m/min Complete with drum roller.

Auxiliary winch, controlled load-lowering type, driven by a fixed displacement, hydraulic axial piston motor:

Nominal line pull on first layer: 70 kN

For rope diameter 18 mm

Max speed at third layer: 63 m/min

18 mm dia. rope with 75 ton hook - for 70 kN auxiliary winch.

#### PILING ARRANGEMENT WITH PULL DOWN WINCH

Parallelogram type mast support complete with lifting and positioning cylinders that allow lateral and longitudinal adjustment of 3°. All cylinders are provided with safety locking valves.

Working radius: 2620-3300 mm.

Reinforced rectangular section steel mast composed of one 12,85m long element

2,8 + 3,2 m upper mast element with pulleys for Pull Down Winch arrangement

Mast foot element

Jib for telescopic kelly bars arrangement. H18 ROTARY HEAD

Fitted on a support with replaceable wear plates. Driven by three hydraulic motors, each coupled to planetary reduction gears.

Max torque: 175 kNm

Max drilling speed: 32 rpm

Max discharge speed: 130 rpm.

Three torque/speed plus automatic settings can be selected by the operator for best drilling performance.

Arrangement for B175 with telescopic kelly bars and crowd winch complete with:

Pulleys for mast

Spring damping ring

Hydraulic hoses

Transportation kit Winch crowd system:

Max crowd force: 280 kN

Max extraction force: 280 kN Complete with rope.

Upper guide with sliding-blocks for kelly bar Mast extension 1.3 m long.

Lower flange with cardanic joint for rotary head.

4 x 9,5 m interlocking kelly bar, complete with swivel for 34 m max drilling depth. 130 x 130