

Hydraulic crawler mounted drill rig type MC 15P HT SN3202

Year: 2018

Hours: 3202 as 1.22.2024

Basic unit composed as follows:

•Track carriage

It is made with steel tracks and is operated by means of two hydraulic motoreducers provided with negative brake and motion control valve.

- Track wheel base 2.620 mm
- Max width 2.300 mm
- Pad width 400 mm (Triple grouse type)
- Max climbing ability 36 %
- Max speed 1,5 Km/h
- Ground pressure 0,70-0,75 Kg/cm² (Variable according to the option)

•Chassis

Made with rectangular section steel beams in steel type S275JR EN 10027-1; it is completed with two hydraulic jacks mounted on the rear side and two “arm type” on the front side.

•Articulations

- Turret for boom side swing: - / +25°
- Boom operated by one hydraulic cylinders that permit an inclination of +45° and -25°
- Mast support with mast rotation assembly +/- 95° operated by hydraulic cylinders including the PATENTED SYSTEM that allow the rotation on both direction with no cylinders re-pin.
- Mast slide cylinder with stroke 1200 mm.

•Hydraulic power pack CAT C7.1 STEP 4 / TIER 4 FINAL (HT Line) •Hydraulic power pack CAT C7.1 STEP 4 / TIER 4 FINAL (HT Line)

Located on the rear side of the chassis, it consists of the following main components:

- Soundproofed canopy
- Diesel engine CATERPILLAR C 7.1 ACERT of 168 kW (225 HP) a 2200 rpm.; six-cylinder turbo intercooler common rail. Exhaust emission according to EU 2004/26 Step 4 – EPA Non Road Tier 4 FINAL. Electric circuit 24V.
- Double axial pistons, variable displacement pump
- Triplex gear pump
- 20 um filter on the return line
- Oil cooler with fan operate by an hydraulic motor
- 400 lt. Capacity hydraulic oil tank
- 350 lt. Capacity fuel tank

- Hydraulic oil level indicator

•Mast with gear reducer feeding system

Made with a rectangular section steel tube in steel type S355JR EN 10027-1, with the slide rails in hard steel type C45 EN 10083-1.

Feeding system by an hydraulic motoreducer and a double roller chain. The mast hoses are guided and supported by means of a special guiding chain.

Feed / Retract force 8.000 daN

Mast type	Mast total length	Feed stroke single head	Feed stroke Double head
A	6.000 mm	4.000 mm	3.400 mm

•Mast extension kit

Mast extension kit including: mast extension , bolts , chain and chain junction accessories.

Extension L.	Feed stroke Double head
600 mm	4.000 mm

•Controls

- Diesel engine ignition and protection panel
- Fixed control panel including the rig positioning functions
- Electric proportional console for tracks control
- Remote control panel for the drilling function mounted on an hydraulic height adjustable swing arm.

•Documentation

The machine it is supplied with 2 hard copies and 2 CD including: use and maintenance manuals, spare parts manuals, electric diagram , hydraulic schematic.

•Painting

- Two components rust protection epoxy primer thickness 80-100 um
- Top coat two components polyurethane varnish thickness 60-80 um
- Undercarriage GREY RAL 7015
- Machine light GREY RAL 7032
- Details RED RAL 3020.

APPROXIMATED WEIGHT (DEPENDING ON THE ACCESSORIES): 14.000 ÷ 16.000 Kg.

•Mast Support with “Front The Wall” system

Mast support Joint that permits a lateral inclination of +/- 95° and the positioning of the mast perpendicular to the machine travel direction including the PATENTED SYSTEM that allow the rotation on both directions with no cylinders re-pin.

•**Oscillating tracks**

•**Rotary head carriage for single head**

Made of welded steel plate in steel type S275JR EN 10027-1, it is completed with:

-12 guiding rollers: 8 horizontally orientated and 4 vertically, respectively 4 and 2 are mounted on eccentric pins to adjust the clearance between the rollers and sliding rails.

-Off-hole slidramatic by hydraulic cylinder that permits a free passage of 280 mm.

(Mounting plate not include)

•**Carriage for double head**

(With off-hole slidramatic – Free passage in off-hole position \varnothing 300 mm)

Carriage for Double head R900 & R2400 (Head relative movement 300 mm)

•**Double head kit**

Including:

Upper rotary head COMACCHIO R900

Motor HP677-451 Gears 4 Torque daNm 1400/900/700/450 Speed rpm 35/50/70/100

Floating spindle kit for R 900

Floating spindle kit (shock absorber by rubber block) with thread 3" ½ API REG. Female and connection for swivel CTA 21, 1" ½.

Swivel type CTA 21 connection 1" ½ at 90°

Upper head swivel

Swivel CTA 21 1" ½ mounted on the upper rotary head

Lower rotary head Rotary head R 2400

- Rotation mechanism with three motors series-parallel.

- Shaft with flange connection, passage d. 116 mm

- Separated radial and axial bearing system

- Protective wear ring

- Central lubrication pump

- Nr. 2 valves hydraulic speed change

Motor HP 677 Gears 3 Torque max daNm 2325 Speed max rpm 90

- Hydraulic setting for “Hydraulic Drifter”
Including hydraulic circuit 90 lt/min – 170 bar,
controls and 10 um filter in line

- Hydraulic setting for “Double head”
Including hydraulic circuit 90 lt/min – 200 bar and controls

- Hydraulic rod holder /rod breaker with casing extractor “PATENT”**

Clamping force	230 KN	
Breaking torque	3.500 daN*m	
Extraction force	8.000 daN	
Extraction stroke	450 mm	(Extra weight on double clamp aprox. 350 Kg)

Clamping range: 45 – 360 mm

- Valve for clamping force regulation

- Rod guiding device fixed on the lower clamp
(Complete with one guiding insert)

- 2000 Kg hydraulic winch – Non CE Version
Including crown block , 800 mm. extension, rope L. 30 mt, hook and empty drum sensor
Max line pull 2000 Kg, Rope capacity 50 mt., Rope speed 30 Mt/min , Rope Ø 10 mm.

- Foam/water pump UDOR GC 30/15-MI
Pump GC 30 operate by an hydraulic motor, complete with pressure regulator and gauge.
(Suitable only for clean water and light polymers)

Pump GC 30 hydraulic driven: Max delivery 20 Lt/min – Max pressure 150 bar

Hydraulic circuit for the operation of the GC 30 pump

- Washing kit
Including: Winding device in stainless steel, 15 mt. of hoses and high pressure gun.
(Only in combination with the pump UDOR GC30)

- Hydraulic setting for the operation of the GAMMA 202 TS pump

- D.T.H. Lubricator
Operated by Venturi system capacity 8,5 lt., passage 2" , max pressure 26 bar
- Electro-hydraulic air gate valve
- Radio Remote for Drilling and Set up function.
- Mounting support for crane AMCO VEBA V 805 and pre-setting for connection on a LS pump