



SPECIFICATION SHEET

RIG S/N:	M2409399
CONSTRUCTION YEAR	2025
BRAND	FRASTE
TYPE	MULTIDRILL
ML	

TECHNIQUES:

- **Water well**
- **Down the hole hammer drilling**
- **Mud rotary (excl pump)**
- **Auger drilling**



ITEM.	DESCRIPTION
1.	<p>MULTIDRILL ML basic drilling rig mounted on crawler carrier. (EU Stage V – EPA Tier 4 Final)</p> <p>Basic frame : Manufactured with tubular pipes and shaped and welded sheets, suitable for crawler carrier fitting. Includes : hydraulic oil tank, fuel tank and hydraulic cylinder for the mast rising. No. 4 hydraulic stabilizers, with independent control. All cylinders are supplied with block valve. Basic frame equipped with four hooks for the drilling rig lifting.</p> <p>Power unit :</p>

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ITEM.	DESCRIPTION
	<p>CATERPILLAR C3.6 diesel engine, 3600 cm³ displacement. 4 cylinders turbocharged with aftercooler, water cooled. 12 V electrical system. Power : 90 kW (120 Hp) @ 2400 rpm. Emission class : EU Stage V – EPA Tier 4 Final. Engine equipped with the following modules for the exhaust post treatment :</p> <ul style="list-style-type: none"> - DOC (Diesel Oxidation Catalyst); - DPF (Diesel Particulate Filter); - SCR (Selective Catalytic Reduction). <p>Complete with canopy and soundproofing. Ad Blue (Urea) tank capacity : 19 lt. Fuel tank capacity : 110 lt. <u>Hydraulic system :</u></p> <ul style="list-style-type: none"> – No. 01 open loop piston pump Sauer Danfoss – Delivery 190 l/min @ 300 bar – in “Load Sensing”, for feeding the proportional valves bloc for main drilling rig functions ; – No. 01 close loop piston pump Sauer Danfoss – Delivery 90 l/min @ 280 bar – for the rotary head ; – No. 01 gear pump – Delivery 34 l/min @ 220 bar – for other drilling rig functions; – No. 01 gear pump for oil cooling ; – <u>10-micron absolute filtering system</u> with filters on pressure and discharge lines and oil cooler; – Oil tank capacity : 180 litres. <p>Adjustable control panel fixed on the drilling rig by an arm equipped with two (2) hinges. This system allows a perfect view of the drilling area under any condition. It groups all the drilling rig controls, adjustment valves, pressure gauges and all diesel engine controls (tachometer and hour meter).</p> <p>Rubber chain crawler carrier.</p> <p>Total width : 1900 mm Belt width : 350 mm Undercarriage length : 1939 mm Load capacity : 6500 daN Speed : 2,4 km/h Radio remote control complete with belt, control unit, power set and no. 2 batteries.</p> <p>Mast dump : Hydraulic shifting device mounted on counterslide for complete mast assembly vertical movement. Stroke : 500 mm.</p>

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2.	Wider Crawler carrier (conform LDVV)																																		
3.	<p>Drilling mast for 3000 mm drill pipes. Steel tubular structure with drawn steel lateral guides for rotary head carriage sliding. Pull-down system with hydraulic cylinder and Fleyer chain. Feeding speed, pull-down pressure and bit load (floating system) are perfectly adjustable from the control panel. Pull-up force : 6000 daN Pull-down force : 3100 daN Stroke : 3500 mm Pull-up speed : 30 m/min Pull-down speed : 40 m/min</p>																																		
4.	Support/guide hoses chain to keep hoses in right position between drilling mast and rotary head.																																		
5.	Rotary head support trolley , with hydraulic aside shifting device to allow free passage of winch cable in the hole vertical and front rotation device with two hydraulic cylinders for drill pipes loading operation.																																		
6.	<p>R06D055 2-speeds rotary head. Monobloc steel construction with transmission gears and oil bath bearings. Driven by two (2) hydraulic motors. Manual speed selection with serial and/or parallel hydraulic motors connection from the control panel. Inner dump shaft with spring shock absorber. Air/mud injection swivel, internal passage 55 mm. Speeds and torques to be chosen among one of the following alternatives :</p> <table border="1" data-bbox="577 1514 1134 1776"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">1st speed</th> <th colspan="2">2nd speed</th> </tr> <tr> <th>daNm</th> <th>rpm</th> <th>daNm</th> <th>rpm</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>150</td> <td>220</td> <td>300</td> <td>110</td> </tr> <tr> <td>2nd</td> <td>185</td> <td>200</td> <td>370</td> <td>100</td> </tr> <tr> <td>3rd</td> <td>235</td> <td>160</td> <td>470</td> <td>80</td> </tr> <tr> <td>4th</td> <td>300</td> <td>124</td> <td>600</td> <td>62</td> </tr> <tr> <td>5th</td> <td>370</td> <td>100</td> <td>740</td> <td>50</td> </tr> </tbody> </table>		1 st speed		2 nd speed		daNm	rpm	daNm	rpm	1 st	150	220	300	110	2 nd	185	200	370	100	3 rd	235	160	470	80	4 th	300	124	600	62	5 th	370	100	740	50
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7.	<p>Drill pipe Wear Sub BS001.002/101</p>																																		

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8.	<p>Double hydraulic clamp, 60-280 mm Clamping diameter from 60 to 280 mm for drill pipes and casing holding and break out. Both are fitted with flow divider for a centred and simultaneous clamping. Adjustable clamping force from 0 to 14000 daN. Upper clamp mounted on thrust bearing, with rotation for the breaking with two hydraulic cylinders. Breaking torque : 4400 daNm.</p>
9.	<p>Steel guide rollers, with hydraulic cylinders, mounted over the clamp. Fitted with flow divider for a centred and simultaneous closing and valve for adjusting the clamping pressure.</p>
10.	<p>Double hydraulic cylinders for casing extraction, mounted under the drilling mast. Pull-up force : 10000 daN Stroke : 300 mm</p>
11.	<p>Hydraulic winch. Single line pull: 2000 daN – 1st layer Speed: 50 mt/min Supplied with 30 m cable diam. 8 mm with turning hook, weight and cable tensioner.</p>
12.	<p>Fixed mast head with pulleys</p>
13.	<p>High pressure piston pump for washing and foam injection. Max. delivery : 15 l/min (4 GPM) Max. pressure : 200 bar (2901 PSI) Complete with washing gun and hose length 10 meters.</p>
14.	<p>Bean/FMC A04 duplex piston foam pump. Driven by hydraulic motor. Adjustable delivery from control panel. Complete with relief valve and maximum pressure control. Max. delivery : 34 l/min (9 GPM) Max. pressure : 38 bar (550 PSI) Supplied with suction hose 4000 mm length and foot valve.</p>



ITEM.	DESCRIPTION
15.	<p>Screw type mud pump, hydraulic driven. Adjustable delivery from control panel. Max. delivery : 900 l/min (238 GPM) Max. pressure : 14 bar (203 PSI) Mud line mounted on the drilling rig, with flexible hose diam. 60 mm. Supplied with suction hose 4000 mm length and foot valve.</p>
16.	<p>Down-the-hole hammer line lubricator. With adjustable oil lubricator delivery through Venturi principle. Oil tank capacity : 8,5 l (2,25 USGallon) Pressure : 30 bar (435 PSI)</p>
17.	<p>1" ½ air valve with hydraulic control, with open and close adjustable speed to connect the separated compressor.</p>
18.	<p>Rubber dust protection, mounted under the clamp.</p>
19.	<p>Proportional Hydraulic Prearrangement with quick connections fixed on the frame (mast side) activated by the control panel. Max. delivery : 65 l/min Max. pressure : 280 bar</p>
20.	<p>Drill pipes side storage made by two "L" tubular pipes, mounted on the opposite side of the control panel.</p>
21.	<p>Painted in AGIVA colours :</p> <ul style="list-style-type: none"> - GREY RAL 7021 for the basic frame of the drilling rig - AGIVA RAL 5001 for the hood, the pump, manipulator and the mast. <p>Painting complies strength and thickness requirements according to ISO 2409 regulation. Painting includes the use both primer and enamel water-soluble (water based). Phases of painting:</p> <ul style="list-style-type: none"> - Sandblasting of components S.A. 2 – 2.5 - Application two layers of water-soluble epoxy resins anticorrosive primer, with a thickness of 50 – 60 µm - Application two layers of water-soluble acrylic resins anticorrosive enamel, with a thickness of 50 – 60 µm.
22.	<p>LED light system – high efficiency and long duration in order to light up the drilling area. Total capacity: 4800 lumen. Composed by:</p>

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23.	<p>No. 2 lights mounted on mast head turned to the drilling area. No. 1 light mounted on manipulator turned to the clamp</p> <p>Security cage fixed on the lower side of the mast, for the complete protection of the rotary head and clamps area. Electrical device for immediate stop of the rotation and rotary head feed in case of opening of the door. Only through operator's direct consent (with dedicated switch) it is possible to reactivate a slow rotation and advancement of the rotary head for a safe drill pipes' screwing/unscrewing. The cage and its securities are in compliance with European rules currently in force: EN 16228.</p>
24.	<p>Technical Information The above FRASTE Multidrill ML MAX will be supplied with appropriate technical/informative literature, that includes:</p> <ul style="list-style-type: none"> - Fraste General instruction books for its use and main safety information and parts catalogue - Operation/ instructions book for each component and related parts catalogue. - Fraste CE Conformity Certification. - Language: English

SALE TERMS & CONDITIONS

	<p>Delivery point: EXW - Ex Works our factory in Kunstberg 5, 9900 EEKLO. (Incoterms[®] 2010 ICC/CCI).</p> <p>Delivery time: 2-3 weeks, subject to prior sale</p> <p>Payment: 100% settlement on delivery</p> <p>Guarantee: 14 (fourteen) months from delivery date, 12 (twelve) months from drilling rig start-up date at customer's site, or 1500 working hours whichever comes first.</p> <p>Good of Italian origin</p>		

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