



DRILLING RIGS
SINCE 1964



EXPLORATION SERIES



Designed To Find Ores Deposits Easily, Cheaply And Quickly.



The **EXPLORATION** drilling rigs series is the newest technical solution for all exploration drilling jobs in the maximum safety, thanks to its innovative technologies that minimize the risks in the job site, and allow an easy operation also under the most extreme conditions.

It includes the **FRASTE** models **MULTIDRILL XL, FS 250, FS 300, FS 400** and **FS 500**, specially focused on exploration drilling with diamond coring or RC systems, besides the traditional air or mud circulation, from vertical to 45° angle drilling.

Best features in safety: Automatic rods handling system and Radio Remote Control. All models can be fitted with the famous Fraste automatic rods handling system " Manipulator " for a very easy, quick and safe drill pipes handling. Fraste " Manipulator " is worldwide recognised as one of the best automatic rods handling system on the market, so much appreciated by many customers.

COMPLETE RADIO REMOTE CONTROL is also available on all models, for all drilling operations and rods handling that can be fully controlled out from danger area.

EXPLORATION/MULTIPURPOSE ROTARY HEAD Starting from **FRASTE FS 300** model the new 4-speeds rotary head with the best rotation speeds and torques combination on the market is available. Max torque up to 1360 daNm max speed up to 1400 RPM; available with both wire line setting and RC/Air Core fast mounting kits.

This new top performances 4-speeds rotary head features the following gears:

- 1st speed daNm 0÷1361/rpm 0÷111
- 2nd speed daNm 0÷873/rpm 0÷172
- 3rd speed daNm 0÷212/rpm 0÷710
- 4th speed daNm 0÷107/rpm 0÷1400

Hydraulic selection from control panel for all speeds. All Fraste Exploration rigs are fitted with the newest Wire Line winches technologies fitted on board with rope capacity up to 1200 mt (or more upon request), all of them with automatic cable drum guide, speed up to 240 mt/min.

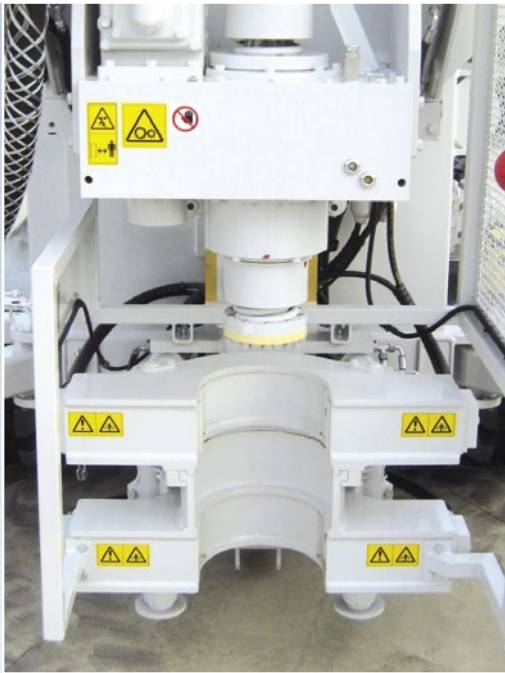
For all the units cutting separators cyclones - different sizes - are available, as separate packages or directly mounted on the rigs, including cutting collection hoses and related parts.



Kit RC/AIR core double wall drill rods-air injection swivel with heavy duty seals and cutting deflector box.

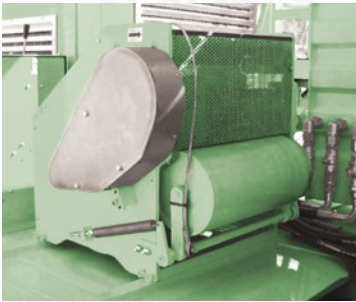


EXPLORATION XL





EXPLORATION FS 250



EXPLORATION FS 300





EXPLORATION FS 400



EXPLORATION FS 500



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	EXPL. XL	EXPL. FS 250	EXPL. FS 300	EXPL. FS 400	EXPL. FS 500
POWER UNIT	106÷129 Kw (142÷173 Hp)	175÷375 Kw (238÷510 Hp)	175÷522 Kw (238÷710 Hp)	260÷522 Kw (354÷710 Hp)	260÷522 Kw (354÷710 Hp)
MAST Pull Up Pull Down	8000 daN (17984 lbf) 6800 daN (15286 lbf)	14000 daN (31473 lbf) 8000 daN (17984 lbf)	18000 daN (40465 lbf) 14000 daN (31473 lbf)	28000 daN (62946 lbf) 19000 daN (42712 lbf)	45000 daN (101164 lbf) 27000 daN (60698 lbf)
ROTARY HEAD Max torque Max speed	1020 daNm (7522 ft lbf) 1100 rpm	1400 daNm (10320 ft lbf) 1400 rpm	1400 daNm (10320 ft lbf) 1400 rpm	1400 daNm (10320 ft lbf) 1400 rpm	1400 daNm (10320 ft lbf) 1400 rpm
CORING PUMP Max delivery Max pressure	160 l/min. (42 gpm) 48 bar (696 PSI)	160 l/min. (42 gpm) 70 bar (1015 PSI)	200 l/min. (53 gpm) 70 bar (1015 PSI)	320 l/min. (85 gpm) 70 bar (1015 PSI)	320 l/min. (85 gpm) 70 bar (1015 PSI)
AIR COMPRESSOR Max delivery Max pressure			36000 - 1270 CFM 30 bar - (435 PSI)	36000 - 1270 CFM 30 bar - (435 PSI)	36000 - 1270 CFM 30 bar - (435 PSI)
WIRE-LINE WINCH Drum capacity Max speed Max line pull	400 m (1312 ft) 130 m/min (426 ft/min) 800 daN (1798 lbf)	700 m (2296 ft) 150 m/min (492 ft/min) 800 daN (1798 lbf)	1000 m (3280 ft) 240 m/min (787 ft/min) 800 daN (1798 lbf)	1500 m (4920 ft) 240 m/min (787 ft/min) 800 daN (1798 lbf)	2500 m (8200 ft) 240 m/min (787 ft/min) 800 daN (1798 lbf)
MAIN WINCH Max direct line pull Max speed	2000 daN (4496 lbf) 50 m/min. (164 ft/min)	5700 daN (12813 lbf) 50 m/min. (164 ft/min)	8000 daN (17984 lbf) 50 m/min (164 ft/min)	10000 daN (22480 lbf) 45 m/min (147 ft/min)	10000 daN (22480 lbf) 45 m/min (147 ft/min)
RATED DEPTH CAPACITY HQ	600 m (1968 ft)	850 m (2788 ft)	1200 m (3937 ft)	1700 m (5577 ft)	2800 m (9186 ft)

Capacity reasonably expected calculated on theoretical and actual drill pipe weights and field experiences. Based on vertical, straight and clean down hole as well as perfect tools conditions and appropriate drilling technique.

I dati esposti sul presente catalogo possono variare senza preavviso - Specifications may change without notice - Ces caractéristiques peuvent être modifiées sans préavis
Technische Änderungen vorbehalten - Variaciones son premissibles sin previo aviso.