



IDE Contract Number:

EQUIPMENT SALES AGREEMENT

Date: 3/22/2023

645 Angus Street, Rural Hall NC, 27045
Ph: 1-877-207-6062
Fax 1-866-710-3842

Attn: please read all the pages of this document carefully

INTERNATIONAL DRILLING EQUIPMENT, INC. PROPOSES THE FOLLOWING DESCRIBED MATERIALS AND/OR EQUIPMENT FOR THE BELOW MENTIONED PROJECT, SUBJECT TO THE TERMS AND CONDITIONS STATED ON THIS AND ALL OTHER PAGES.

ITEM	PRICE IS LISTED IN USD		
	QTY	UNIT PRICE	EXTENDED PRICE
<p>NEW 2022 CASAGRANDE B175XP HYDRAULIC PILING DRILL RIG IN CFA CONFIGURATION</p> <p>S/N: B175DD0331</p> <p>UNIT SPECIFICATIONS:</p> <p>Modern concept of Piling Rig which includes specific features such as:</p> <ul style="list-style-type: none"> - Full PLC (Programmable Logic Controller) system working in combination with the hydraulic circuit - New cabin designed for full comfort of operators. <p>Self-erecting piling rig, the B175 XP-2 can be equipped with:</p> <ul style="list-style-type: none"> - Telescopic kelly bars for a maximum borehole dia. of 1500 mm - CFA (Continuous Flight Augers) having maximum dia. of 900 mm - KRC1 Diaphragm Wall equipment until 800 mm trench wide and 29 m depth <p>Operating weight (according to the working arrangements): ~ 33 to 41 ton Maximum torque of rotary head: 175 kNm.</p> <p>Undercarriage with hydraulically extendable tracks:</p> <ul style="list-style-type: none"> - Tracks total length: 4.500 mm - Width of track pads: 800 mm <p>Fabricated steel upperstructure frame suitable for CE Marking, mounted on a heavy duty, 360° continuous slewing ring.</p> <p>The operator's cabin, designed according to modern ergonomics practice, is mounted on silent blocks to reduce vibrations. Adjustable seat, radio and CD player, electric windscreen wipers, front and side windows, soundproofed arrangement and protective screens ensure operator comfort and safety. Air conditioning.</p> <p>Casagrande centralized monitoring, diagnostic and setting control system complete of:</p> <ul style="list-style-type: none"> - 12.1" graphic colour display to show working parameters: complete engine and electric system check-up. - Assisted mast lifting and lowering - Drilling depth measurement and automatic verticality system for mast. <p>Power unit with water-cooled, turbocharged diesel engine model Cummins B 6.7 with Intercooler</p> <ul style="list-style-type: none"> - Certification EU STAGE V - US EPA TIER 4 final - Rated power: 209 kW (280 HP) at 2200 rpm - Fuel tank capacity: 280 litres <p>Open circuit hydraulic system with two main variable displacement piston pumps with Load Sensing control</p> <ul style="list-style-type: none"> - capacity 2 x 210 l/min. - max pressure 350 bar <p>Hydraulic oil tank capacity: 330 litres.</p> <p>ARRANGEMENT FOR PILES AND DIAPHRAGM WALLS</p>	1		

<p>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).</p> <ul style="list-style-type: none"> - Nominal line pull: 160 kN - Rope diameter: 24 mm - Max speed: 72 m/min <p>Complete with drum roller.</p> <p>Auxiliary winch, controlled load-lowering type, driven by a fixed displacement, hydraulic axial piston motor:</p> <ul style="list-style-type: none"> - Nominal line pull on first layer: 70 kN - For rope diameter: 18 mm - Max speed at third layer: 63 m/min <p>18 mm dia. rope with 7,5-ton hook - for 70 kN auxiliary winch.</p> <p>PILING ARRANGEMENT WITH PULL DOWN WINCH</p> <p>Parallelogram type mast support for arrangement CFA 26 complete with lifting and positioning cylinders that allow lateral and longitudinal adjustment of 3°. All cylinders are provided with safety locking valves. Working radius: 2720-3200 mm.</p> <p>Reinforced rectangular section steel mast composed of one 12,85 m long element</p> <p>2,8 m upper mast extension</p> <p>Mast foot element with Ears for adjustable centering device</p> <p>H18 ROTARY HEAD</p> <p>Fitted on a support with replaceable wear plates. Driven by three hydraulic motors, each coupled to planetary reduction gears.</p> <ul style="list-style-type: none"> - Nominal torque: 175 kNm - Max drilling speed: 32 rpm - Max discharge speed: 130 rpm. <p>Arrangement for B175 XP-2 with telescopic kelly bars and crowd winch complete with:</p> <ul style="list-style-type: none"> - Pulleys for mast - Hydraulic hoses - Transportation kit <p>24 mm dia. rope for telescopic kelly bars, max depth: 35 m.</p> <p>Kit for 125 mm (5") inner diameter sleeve complete with:</p> <ul style="list-style-type: none"> - Swan neck for concrete pipes - 5" Western Rubber Swivel <p>Short drive sleeve for CFA complete with reaction bar and inner reduction.</p> <p>Hydraulic opening kit for the lower auger guide.</p> <p>UNIVERSAL ADJUSTABLE CENTERING DEVICE</p> <p>Adjustable centering device for Rapid CFA and std CFA of B175XP-2 with 800 mm drilling axis, allowing the following diameters: 16"/18"/20"/22"/24"</p> <p>Hydraulic circuit for star type auger cleaner.</p> <p>Star type auger cleaner.</p> <p>6 arms wheel with rope inserts for star type auger cleaner for:</p> <ul style="list-style-type: none"> -500mm dia. pitch 400mm -600mm dia. pitch 500mm -800mm dia. pitch 600mm -1000mm dia. pitch 600mm 			
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<p>10 arms wheel with rope inserts for star type auger cleaner for:</p> <ul style="list-style-type: none"> -400mm dia. pitch 400mm -450mm dia. pitch 380mm -450mm dia. pitch 400mm <p>Fail control hydraulic system (Autofeed) on main winch for CFA arrangement.</p> <p>Automatic greasing system for the jib and mast return pulleys and for pins of parallelogram mast support. The system allows to set the duration and the interval between two greasing times.</p> <p>Tool holder front support</p> <p>Cabin side catwalk, manually folding outside the structure, complete with lower handrails and side access ladder</p> <p>Smart lowering and overload prevention for main winch.</p> <p>Video unit with colour camera and 7" monitor to control the area behind the machine.</p> <p>Application of one video color camera on right side.</p> <p>Application of video color camera for winches control.</p> <p>G & H instrumentation system – Including modem</p> <p>Casagrande Fleet Master, dedicated online platform that allows you to remotely monitor your fleet, accessible via laptop, mobile or tablet. The application is supported by all main browsers. The contractor will be able to collect the data received from the equipment directly from the jobsite, sent automatically and processable for analysis and reports;</p> <p>Recordable data, according to the sensors installed:</p> <ul style="list-style-type: none"> - Actual drilling depth; - Drilling rate; - Pile status ("to do", "in progress" or "on hold"); - Pile type and diameter; - Rotary head pressure and speed; - Jobsite name; - Engine power and pumps pressure; - Fuel level and consumption - Total fuel used; - Engine oil temperature; - Coolant temperature; - Working hours. <p>CFM platform communicates with the rig through the GPS installed, or through an external GPS, allowing rig localization.</p> <p>CFM is supplied with a 1-year license (renewable upon request) for full access to the dedicated online platform.</p> <p>Rig data is stored on CFM database up to 1 year.</p> <p>Casagrande After Sales Service team can monitor (upon request) eventual alarms and check the values sent from any rig, in order to provide a good service.</p> <p>CFM kit is complete with a modem for bidirectional communications. Customer should provide SIM card (2GB/month suggested) for data flow.</p> <p>TRUE CFA KIT</p> <p>Arrangement for B175 XP-2 with continuous flight auger complete with:</p> <ul style="list-style-type: none"> - Adapter for drive sleeve - Suspension block - Hydraulic hoses for rotary head - Transportation kit <p>V type jib for CFA arrangement</p>			
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<p>Mast extension kit for CFA 26 arrangement, consisting of one 5,1 m extension and one extension for jib tie rod.</p> <p>Pull down winches application kit for CFA arrangement, consisting of two small winches installed in the lower part of the rotary head slide. Maximum pull on the auger: 86 kN</p>			
<p align="right">TOTAL SALE PRICE FOR B175XP-2 With True CFA Kit ONLY:</p>			
<p>RAPID CFA KIT</p> <p>Arrangement for rapid CFA version complete with:</p> <ul style="list-style-type: none"> - special adapter for drive sleeve - wedge for jib - female half joint for augers <p>2,7 m upper mast extension complete with pulleys for Pull Down Winch arrangement Jib for telescopic kelly bars arrangement.</p> <p>Winch crowd system:</p> <ul style="list-style-type: none"> - Max crowd force: 280 kN - Max extraction force: 280 kN <p>Without rope.</p> <p>Set of ropes for PD winch - stroke of rotary head 15,5 m.</p>			
<p align="right">TOTAL SALE PRICE FOR RAPID CFA KIT:</p>			
<p align="right">TOTAL SALE PRICE FOR B175XP-2 in True CFA Kit+ RAPID CFA KIT:</p>			
<p>APPLICABLE SALES TAX IS EXTRA</p>			
<p>EQUIPMENT ORIENTATION AND COMMISSIONING:</p> <p>INTERNATIONAL DRILLING EQUIPMENT, INC. WILL PROVIDE A FACTORY TRAINED TECHNICIAN FOR START UP AND EQUIPMENT ORIENTATION ON THE ABOVE MENTIONED MACHINE FOR UP TO 5 WORKING DAYS. CHARGE FOR ADDITIONAL DAYS OF TRAINING, IF REQUESTED WILL BE BILLED AT A RATE OF \$1,980.00 PER DAY, PER TECHNICIAN + EXPENSES.</p>			
<p>➤ AVAILABILITY: APRIL 2023</p> <p>➤ TERMS OF DELIVERY: FOB RURAL HALL, NC; CUSTOMER RESPONSIBLE FOR ALL FREIGHT CHARGES</p> <p>➤ PAYMENT TERMS: PAYMENT IN FULL PRIOR TO SHIPPING</p>			

This quote is subject to International Drilling Equipment, Inc's standards and is valid for thirty days. All equipment is subject to prior sale or rental. Customer is responsible for all freight charges. Sale prices listed in USD.

SALES TAXES WILL BE ADDED WHERE APPLICABLE. TAX EXEMPTION CERTIFICATES MUST BE SENT WITH YOUR ORDER.