



Safety—Efficiency—Trust

Our Four Main Areas of Business

- ♦ *Fabrication of our EDM Drills, and Related Equipment.*
- ♦ *Rod Handlers hand free and safety devices.*
- ♦ *Repair and Overhauling of Machines.*
- ♦ *Representation for Schramm Drills and Airdrill Hammers.*





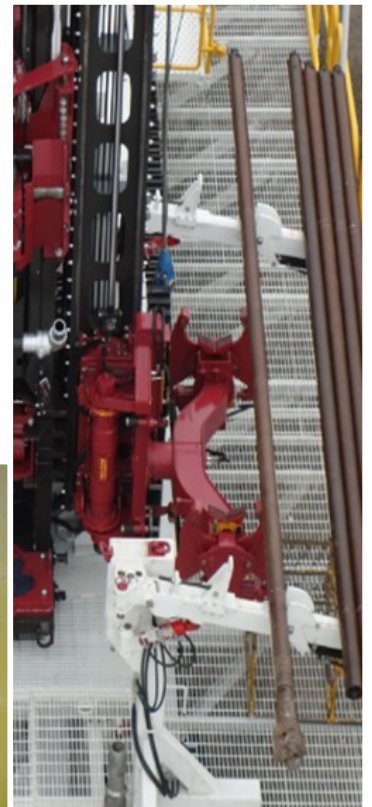
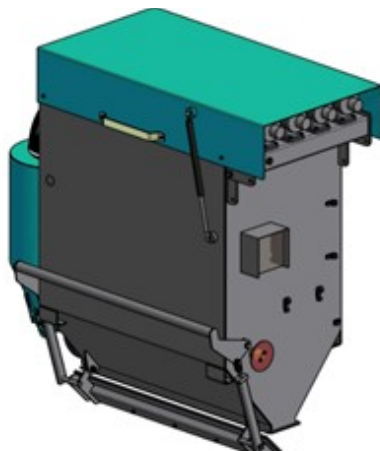
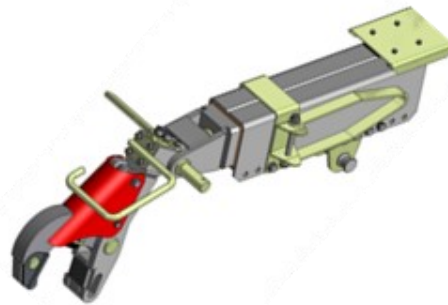
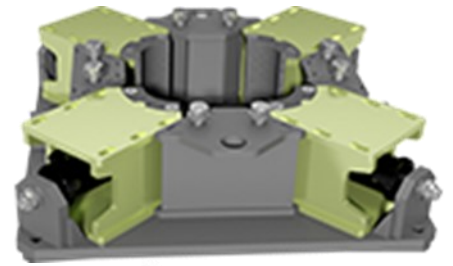
EDM Drills, Rod Handlers and Equipment:

- EDM2000. Up to 70 kLbf
- EDM1200. Up to 47kLbf
- EDMHXR40. Up to 47kLbf
- EDM1500HP. Up to 30 kLbf Heliportable Rig
- EDM ROD FEEDER. Diamond Rod Handler
- SAFE LOAD. Heavy Rod and Collar Handler
- TILTING RC ROD PLATFORM. Holds 612 m
- HANDS FREE ROD PRESENTER. Holds 612 m
- EDM-UDR ROD SPINNER. BQ-HWT / NQ-PWT
- EDM-KL ROD HANDLER. B+, N+, H+, 4.5", 5", 5.5"
- EDM POWER WRAP SPANNER. B+, N+, H+, 4.5"
- EDM SUPPORT VEHICLES. Track, Truck, Skid, Jackout



EDM Stays Ahead in the Game by Actively Integrating into our Drills the Best Equipment the Industry has on offer:

- METZKE MAKORBREAK – RC and Diamond Breakout
- METZKE HYDRAULIC SLIPS TABLE – Completes Hands Free RC
- METZKE SAMPLING AND DUST SUPPRESSION
- PROGRADEX SAMPLING AND DUST SUPPRESSION
- AIRDRILL BREAKOUTS – RC Rotating and Fixed
- AIRDRILL HAMMERS – Representative for Chile
- FOREMOST ROD / CASING HANDLERS – Up to 10.75"
- SCHRAMM – Heavy Duty and Proven Equipment
- GEARWRENCH CHAIN/BELT TONGS
- LIM DRILLING DATA SYSTEMS – Display / Record / Transmit
- SCANRECO REMOTE CONTROLS – Reliable and Robust
- TIER IV COMPLIANT MOTORS



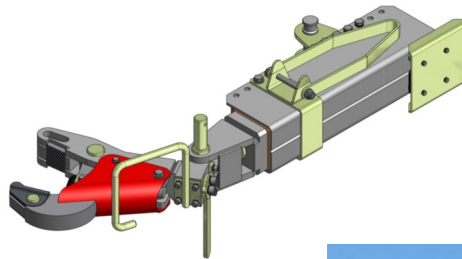
We are Serious about Setting the Highest Safety Standard, All of our Equipment Features the Following:

- **EMERGENCY STOPS** – Located on Every Control Panel and the Four Corners of the Machine.
- **CLEARLY IDENTIFIED BATTERY ISOLATION POINT** – EDM Standard or Customer Specification.
- **ROTATION HEAD SPIN GUARD** – Stop or Reduce RPMs when Breached.
- **LEVELLING JACKS** – Manually Level the Machine for Safe and Effective Drilling.
- **LEVER LOCKOUTS ON ALL SETUP VALVING** – Stops the Accidental Activation of Set-up Cylinders Once the Machine is Operational.
- **STAIRS WITH 3 SUPPORT POINTS** – All Accesses Designed to International Standards.
- **ROD SPINNER WITH TORQUE CONTROL** – Avoid Hand Injury with Diamond Rod Connections.
- **MAIN WINCH TRAVEL LIMITER** – Avoid Dangerous Winch Overwind with this Proven Device.
- **MAIN WINCH CABLE SAFETY PIN** – Streamline Design that Never Snags and Stays Put.
- **WIRELINE WINCH TRAVEL LIMITER AND CABLE WIPER** – Avoid Dangerous Winch Overwind and Effectively Remove Mud from the Wireline Cable as it leaves the well with this Robust and Proven Device.
- **ERGONOMIC CONTROL PANEL WITH SIDE AND OVERHEAD PROTECTION** – Excellent Vision, Swiveling Operator Work Chair, Guard railing and Access Stairway all included.
- **COMPREHENSIVE PARTS AND OPERATIONS MANUALS IN BOTH SPANISH AND ENGLISH**
- **GUARDING FOR ALL ROTATING EQUIPMENT, HOT SURFACES AND HAZARDOUS ZONES**
- **WHIP SOCKS** – All High Pressure Air Lines Fitted with Certified Whip Socks Attached to Certified Anchors.
- **ON BOARD WORKLIGHTS AND SAFETY LIGHTS**



We are Always Adding to our Safety Options

- CLIMATISED AND SOUND PROOFED OPERATORS CABIN
- ALL WORLD CLASS SAFETY BREAKOUTS ARE SUPPORTED – Wrap and Metzke Spanners, Airdrill Double and Single Breakouts or to Client Specification.
- MAST PLATFORM – Certified Vertical Lifeline and Anchors.
- TRUCK TIRE CHOCKS – International Standard Wheel Chocks to DIN76051.
- RADIO CONTROL – Safety Tram the Drill or Maneuver the Rod Handler with Remote Control Functionality that is Reliable and Robust.
- FIRE SUPPRESSION SYSTEM – Manual and Automatic Operation.
- LIM DRILLING DATA SYSTEMS – Clarify your Drilling Operations.
- TRAMMING AND DRILLING CAMERAS – Installation of Robust Mobile Equipment Closed Circuit Surveillance Systems and Associated Heavy Duty Guarding.
- EDM-KL, FOREMOST ROD HANDLER – Facilitate Reverse Circulation and Diamond Hands Free Rod Handling.
- MANUFACTURER OFF/ON SITE TRAINING AVAILABLE



*Under Constant Pressure to Stay Ahead of the Pack **Exploration Drill Masters S.A.** has Always Been Committed to the Continuous Innovation and Development of its Mineral Exploration Equipment.*

The Design, Engineering and Fabrication of EDM's Equipment is Facilitated with Every Available World Class Tool of the Trade. Our Latest Products are Game Changing:

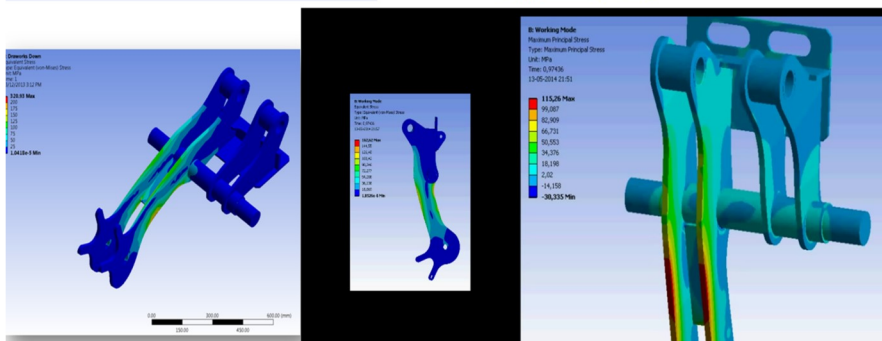
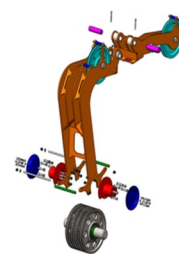
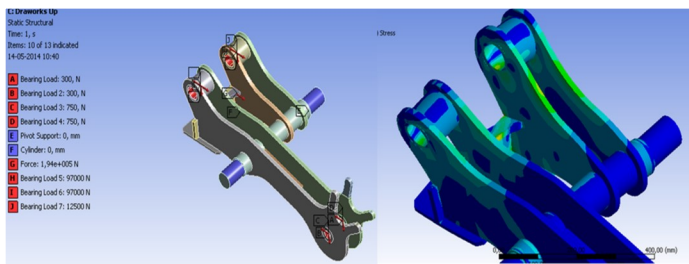
SAFE LOAD - 100% Hands Free Handling of Heavy Water Well Drill Collars and Rods. Specially Built for the Schramm T130 and Beatty 140 Tilting Top Head Water Well Drills.

ROD FEEDER - 90% Hands Free Diamond Core Drill Rod Handler Mounted on a 15 ton (33 klbs) Capacity Jack Out Sloop. 100% Hands Free Unit is Currently Under Development.

DRILLING DATA SYSTEM - Integration of the Pocket LIM 5G DDS that Displays, Records, Saves and Transmits Drilling Operation Parameters in real time via GMS.

REMOTE CONTROL – Integration of Robust Radio Control into the Hydraulic System of the Equipment Leading to Optimum Safety During Operation.

EDM1500HP – We Pushed the Limits of Portability with our new 30 klbf Heliportable Drill.

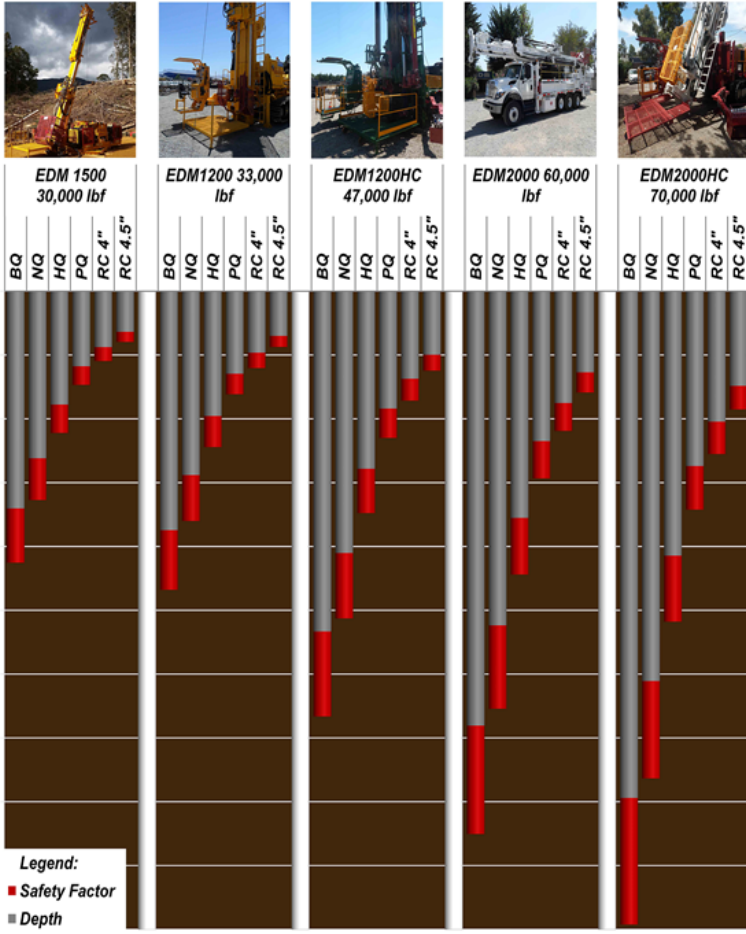


- EDM1500HP – 30K lbf
- EDM1200 – 33K lbf
- EDM1200HC – 47K lbf
- EDM1200RC/GC – 33 to 47K lbf
- EDM2000MP – 41 to 60K lbf
- EDM2000HC MP – 70K lbf
- EDM2000RC – 41 to 70K lbf
- EDM140 O&G – 140K lbf
- EDMHXR40 – 47K lbf



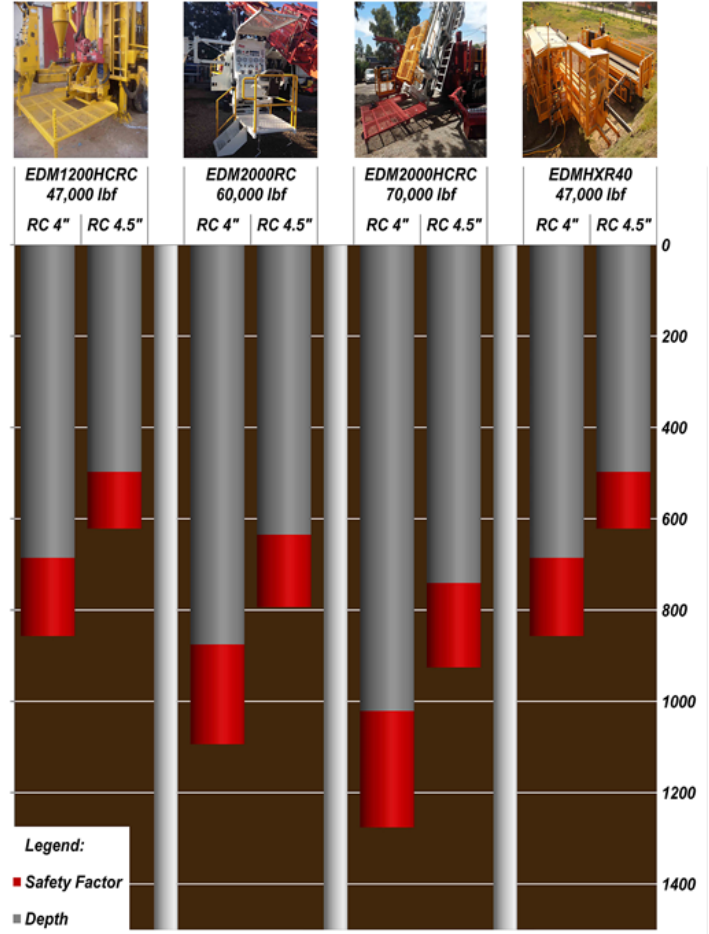
EDM DIAMOND DRILL CAPACITIES

DRY & VERTICAL HOLE / SAFETY FACTOR = 25%



EDM RC DRILL CAPACITIES

DRY & VERTICAL HOLE / SAFETY FACTOR = 25%



- Heavy Duty Heliportable drill rig .
- Up to 30,000 lbf Holdback.
- Up 12,500 lbf Pulldown.
- Up to 4,952 ft.lbf (6,713 Nm) Rotation Torque.
- Designed to drill in remote areas with difficult access or only helicopters access.
- 16 pieces in total that do not exceed 700 kg with helicopter assembly in mind.
- Theoretical depth capacity of 1,700 NQ.
- Field Proven to 1,500+ NQ.





- EDM1200 – 33K lbf
- EDM1200HC – 47K lbf

Heavy Duty Multipurpose Exploration Drill Rig with Diamond, Multipurpose, Reverse Circulation or Grade Control Configurations.

Optional Safety Features include Operators Cabin, Rod Handler, Rod Feeder, RC platform, Airdrill/Metzke/Wrap Breakouts and Drilling Data System (DDS).

The EDM1200 can be mounted on a 6x6 Truck, 6x4 Truck, Track, Jack Out and Up Standalone Base or Skid Mounted.





EDM 2000 SERIES

- EDM2000MP – 41-60K lbf
- EDM2000HC MP – 70K lbf

Multipurpose drill rig with 70,000 lbf pullback.

Heavy Duty Multipurpose Exploration Drill Rig with Diamond, Multipurpose, Reverse Circulation or Grade Control Configurations.

Optional Safety Features include Climatized Operators Cabin, Rod Handler, Rod Feeder, RC platform, Air-drill/Metzke/Wrap Breakouts and Drilling Data System (DDS).

The EDM2000 can be mounted on a 8x8 Truck, 8x4 Truck, Track, Jack Out and Up Standalone Base or Skid Mounted.





EDM REVERSE CIRCULATION SERIES

- EDM1200RC – 33K lbf
- EDM1200HC RC – 47K lbf
- EDM2000RC – 41K lbf RC
- EDM2000HC RC – up to 70K lbf

Heavy Duty Reverse Circulation Drill Rig with Exploration or Grade Control Configurations.

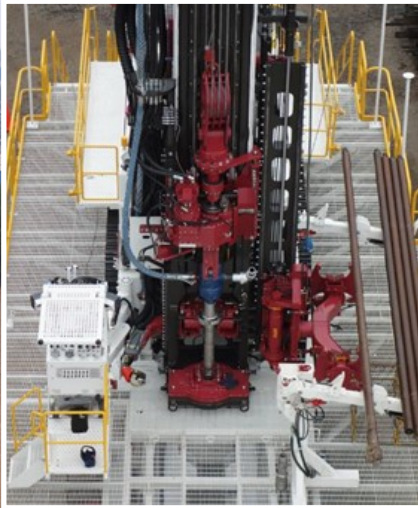
Optional Safety Features include Climatized Operators Cabin, Rod Handler, Carousel, Rod Feeder, RC platform, Air-drill/Metzke/Wrap Breakouts and Drilling Data System (DDS).

The EDM Reverse Circulation Drill Series can be mounted on Truck, Track, Jack Out and Up Standalone Base or Skid Mounted.

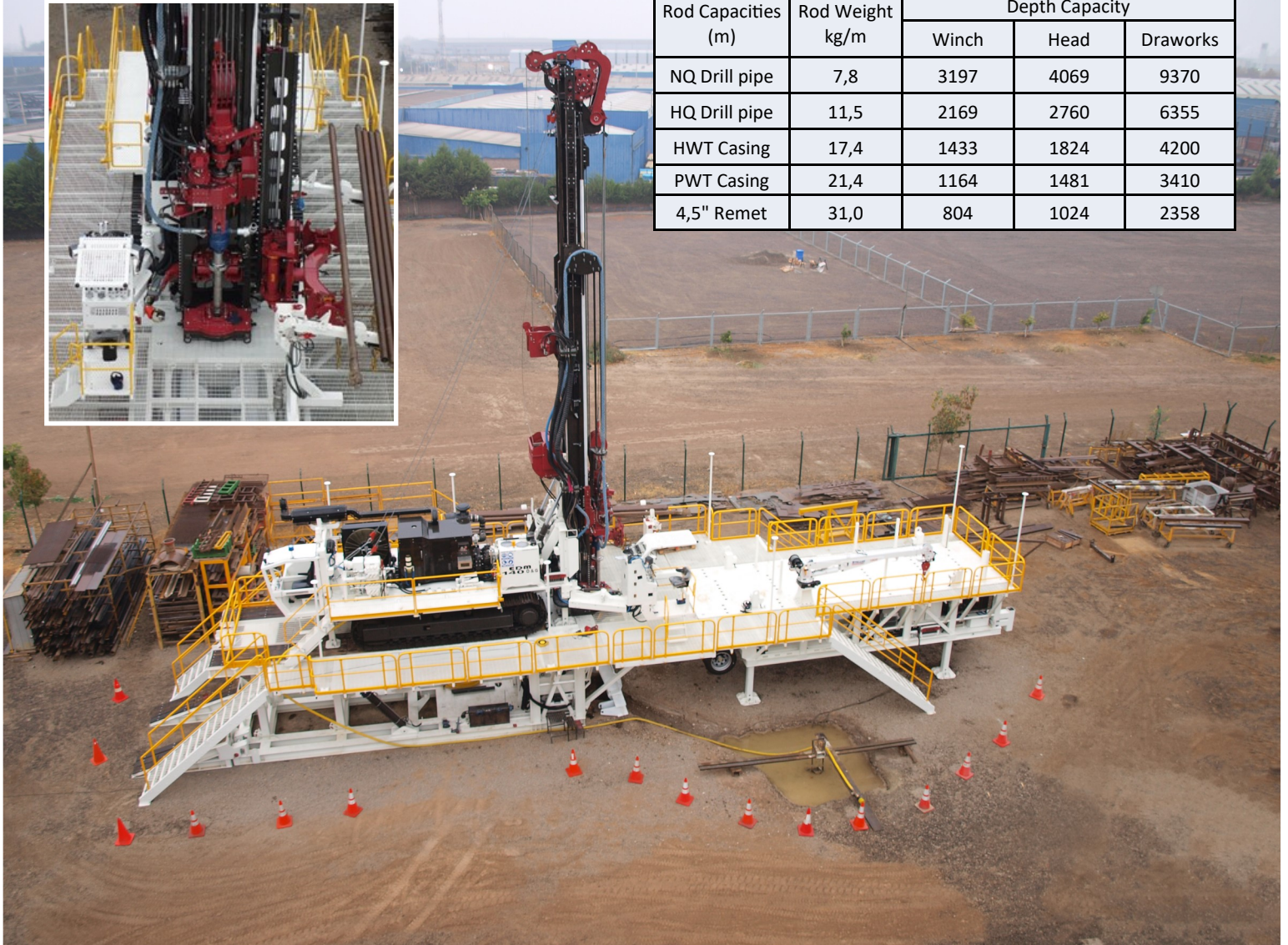




Rod Capacities (m)					
Casing Size OD	Coupler OD	WPF lb	Depth Capacity		
			Winch	Head	Drawworks
4,500	5,000	11,60	1445	1839	4235
5,000	5,563	15,00	1118	1422	3275
5,500	6,050	17,00	986	1255	2890
6,625	7,390	20,00	838	1067	2456
7,000	7,656	23,00	729	928	2136
8,625	9,625	28,00	599	762	1755
9,625	10,625	36,00	466	593	1365
10,750	11,750	45,50	368	469	1080
11,750	12,750	54,00	310	395	910
13,375	14,375	61,00	275	350	805



Rod Capacities (m)	Rod Weight kg/m	Depth Capacity		
		Winch	Head	Drawworks
NQ Drill pipe	7,8	3197	4069	9370
HQ Drill pipe	11,5	2169	2760	6355
HWT Casing	17,4	1433	1824	4200
PWT Casing	21,4	1164	1481	3410
4,5" Remet	31,0	804	1024	2358



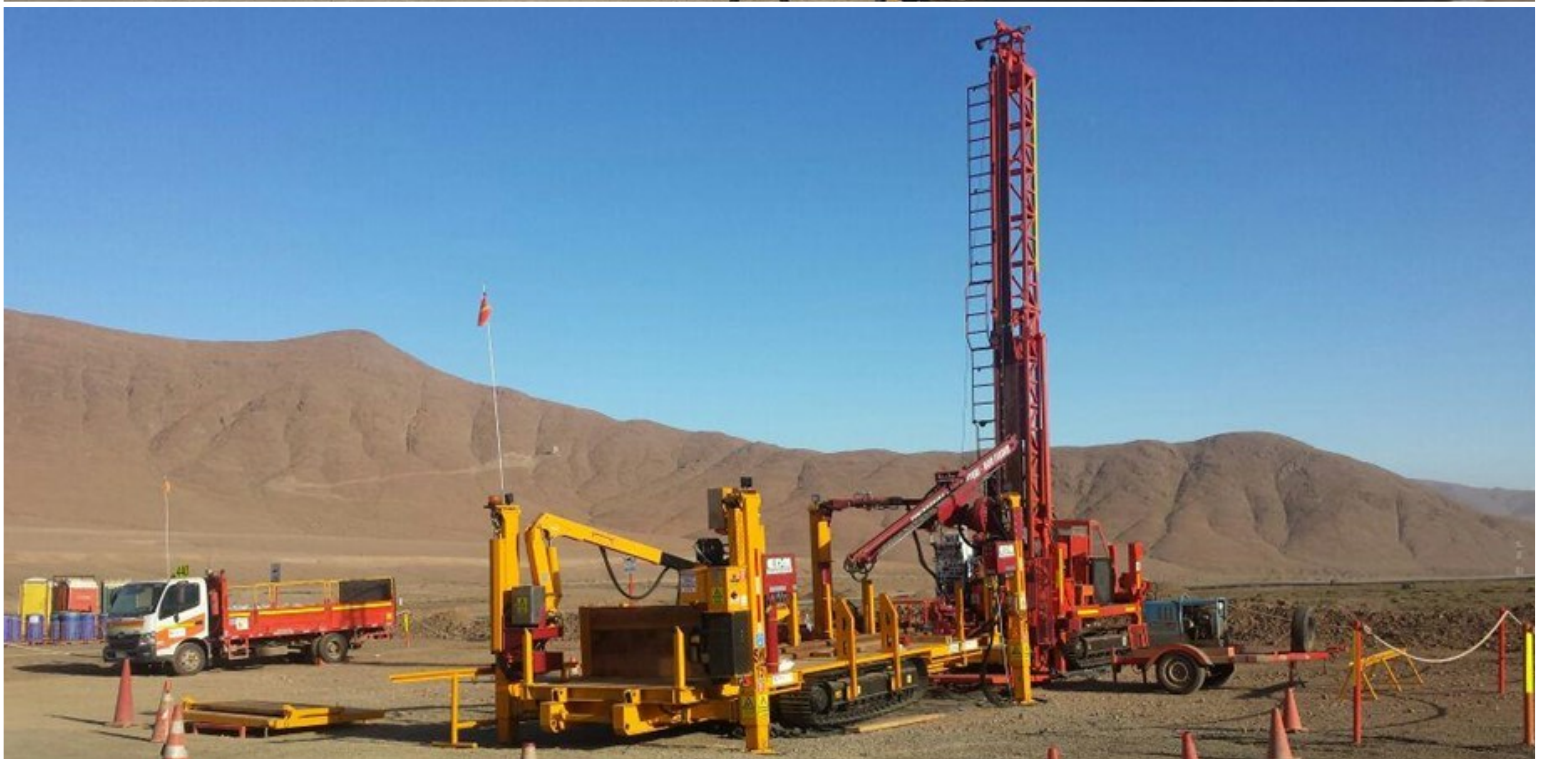
HXR 40 Horizontal Drill Rig:

- *Specifically Designed for In Pit Dewatering Holes.*
- *Can be operated by One Person with 100% Hands Free Rod Loading.*
- *Strong 47000 lbf Pullback and Pulldown System with 6.5 m Stroke.*
- *Proven 500m – 4.5" RC Drill Rod Depth Capacity*
- *Efficient and Powerful Cummins QSB 6.7 265HP@2100 rpm.*
- *Heavy Duty Tilting Mast – 3° Up, 3° Down.*
- *Extendable Mast Feet that Anchors Rig Firmly to the Wall. Tough and Proven Gearbox – Hollow Spindle ID 70mm and 3 ½" API IF Pin Thread 9,500ft-Lb Max. Breakout Torque, 5-85 rpm*
- *Hands Free Breakout System with Dual Rod Breakers (Airdrill). 3-1/2" to 5-1/2" Top Rotating Breaker and 3-1/2" to 5-1/2" Bottom Fixed Breaker.*
- *Slip Table (Metzke) – Hydraulic Operated Table Spanner with 12" Hydraulic Opening and Replaceable Guides.*
- *Industry Standard Water Pump - FMC (Bean) W1122BCD, 140 LPM@7,000KPa, Powered from Rig Hydraulic System.*
- *Efficient Handling with EDM Rod Handler Capable of Handling 4-1/2" – 10" Rods and Casing and EDM Track Carrier With 500m Rod Capacity and Presenter Capable of Holding 5 x 4 ½" RC Rods.*
- *Tracks (Strickland 385 series), 40t Static Load, New Frame Assemblies, Two Speed Motors, 3.5kph Max Trimming Speed.*



Rod Feeder – Diamond Pipe Handling System :

- Can work with almost any machine with either Chuck or Top drive and a main winch
- Will safely pull/run rods in both 6 & 9m Lengths
- Works on all mast angles from 45° - 90°
- Will trip rods at equal or better speeds than current manual methods
- Reduces manual handling of drill pipe by 90%
- Requires little to no modification to the drill rig
- Can be supplied with or mounted to a standard Jack Up Rod Platform (Sloop)



EDM-KL Rod Handler

- *Reverse Circulation Drill Pipe Handler for Top Head Drive*
- *Can be Made to Fit Virtually any Mast.*
- *Never Drop a Rod with the Ingenious Cup Base Characteristic.*
- *100% Hands Free Reverse Circulation Rod Handling to and from Mast When Combined with EDM - RC Rod Platform, Airdrill Double Breakout and Hydraulic Slips Table, and EDM's Remotely Settable Rod Centralizer.*
- *Works anywhere in the range of 45°-90° Mast Angle.*
- *Two Models – 4,5" Rod and 5,5" Rod.*
- *Can be Operated by Remote Control when Required.*
- *Easy Site Setup.*
- *Proven Diamond Rod Handler Utilizing the Same 100% Secure Cup Design Also Available.*



EDM Safe Load

- Developed to Specifically Work With Schramm T-130 and Beatty 140 Water Well Machines.
- Operated from a Semi Enclosed Cabin with Excellent and Clear Vision of Loading Operation.
- Can be Operated by Remote Control when Required.
- Optional Prime Mover with 7000 kg Hiab Crane Fitted.
- Only One Operator is Required.
- Easy Site Setup.
- Capacity to Hold up to 15 x 9" OD Drill Pipe on Each Side of the Rod Presenter (30 x 9m Lengths in Total).
- Will Handle Drill Pipe or Drill Collar Lengths from 6m to 9m.
- Capacity to Hold Various Casing Sizes From 6" to 24".
- Mounted on a Dual Axle Low Profile Trailer.
- Maximum Lifting Capacity of Feeder Tray 15,000 lbs.
- Drill Pipe can be Pre-Torqued to 1000 ftlb Before Being Elevated to the Vertical Position in the Mast.
- Heavy Duty Trolley with Built in Clamp Assembly.
- Heavy Duty Self Centering Clamp Assembly with 10-1/4" Opening.



EDM has Designed and Built Many Heavy Duty, Standard and Custom Support Vehicles to Suit Our Clients' Requirements. Our Vehicles are Usually Track, Truck or Skid Mounted. We have also Engineered Solutions for Hook Lift and Similar "Interchangeable Container" Type Mechanisms Including Container Locks And Jackout and Up Bases.

- *The Support Vehicle Range at EDM Can be Configured with Multiple Options Like:*
- *RC Tilting Tray Rod Platform to Suit EDM-KL Rod Handler.*
- *RC Tilting Tray Rod Presenting Platform to Suit Foremost or Equivalent Rod Handlers, Remote Controlled For 100% Hands Free Drilling when Combined with HXR40 or EDM2000 Drills with Appropriate Breakout Equipment.*
- *Heavy Duty Remote Controlled Rod Platforms/Sloops with on Board Crane (Stinger or Hiab Types). Breaks Down Simply to Fit in 40ft Shipping Container.*
- *Water and/or Fuel Vehicles with Optional Stinger or Hiab Type Cranes.*
- *Compressor and/or Booster Vehicles.*
- *Sampling Vehicle with Offsiders Cabin*
- *Customized Solutions to Meet any Challenge.*



RC Rod Platform

- *Tilting Tray with Capacity of 612 m (17 x 6) of 4½" 6 m RC Rods.*
- *10m 3/8" Hydraulic Hose to Connect to Rig Hydraulics.*
- *External Dimensions - Width 2265mm, Height 1200mm, Length 6600mm.*
- *Internal Dimensions - Width 2065mm, Height 875mm, Length 6400mm.*
- *Hydraulic System - Hydraulic Cylinders Rod 1 ½", Piston: 2 ½", Stroke: 12" and Working Pressure 2500 psi.*



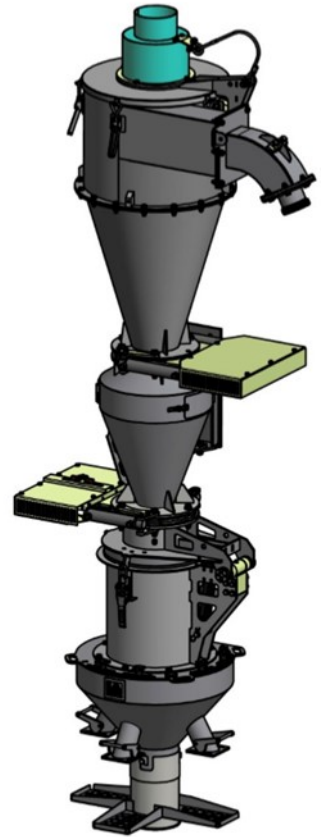
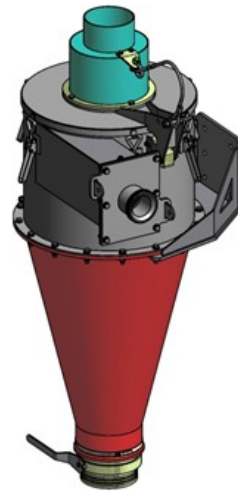
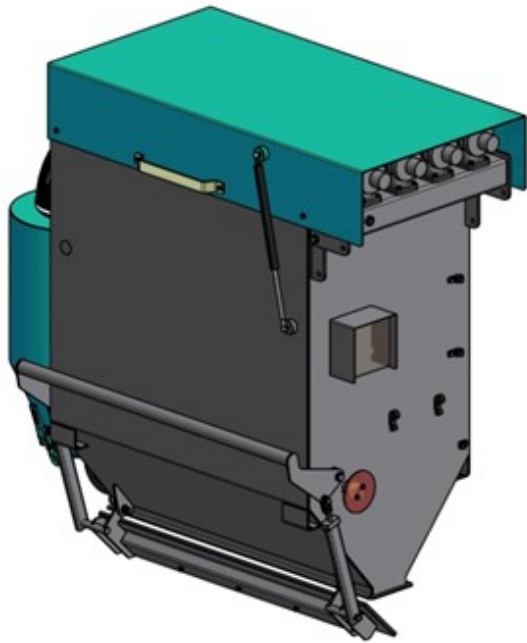
EDM Hands Free RC Rod Presenter

- *Specifically Designed for the EDMHXR with Foremost Type Rod Handler but Has Various Other Foreseeable Applications.*
- *Can be operated by One Person with 100% Hands Free Rod Loading.*
- *Two Models – 6m Rods or 3m Rods.*
- *500m – 4.5" RC Drill Rod Depth Capacity (6m Model)*
- *Efficient and Powerful Cummins QSB 4.5 160HP@2500 rpm.*
- *Tough and Proven Selection Mechanism.*
- *Track Base – Strickland DL385*
- *Folds Up in 3m Wide Foot Print*



Metzke RC Dust Collector Support Vehicle

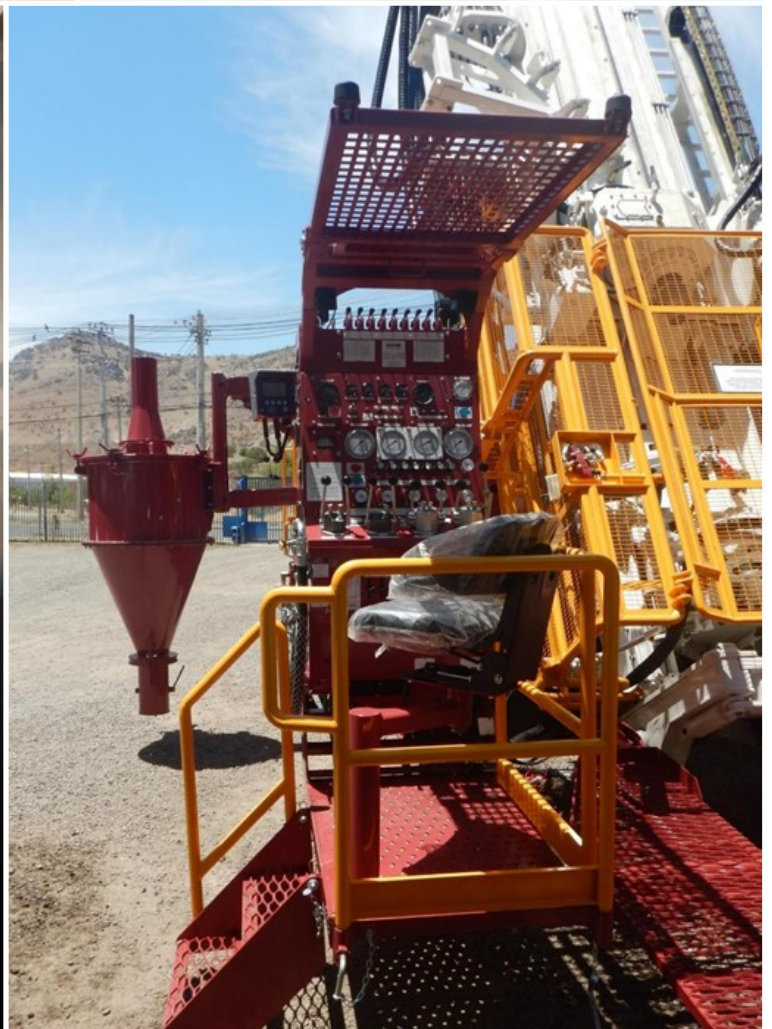
- The Metzke Dust Collection System is a Simple and Robust Solution to Eliminate Dust Released During Reverse Circulation Drilling.
- Fines are Captured from the Sampling Splitter and also from the Diverter (Air Stream Exhausted in Exterior Annulus between Drill String and Well)
- The Sampling Mechanism is a World Class Metzke Eccentric Splitter is a World Class Eccentric, providing a high quality , homogenous and representative sample.
- In Extreme Conditions, an Ergonomic, Climatized (Optional) and Sound Proof Cabin is Provided for Rod Handler Operation (Radio Controlled). Doubles as an Amenities Shelter.
- Filter Housing with Timed Pneumatic Pulsator (Self Cleaning).
- Clear and Safe Access Provided to Facilitate the Maintenance of all Equipment.
- Adaptable to All Types of RC Sampling Configurations.



Drilling Data System (DDS)

The Pocket LiM 5G device is an all in one Drilling Data System (DDS) with a 32 bit Microprocessor and 2Gb Memory that is capable of Displaying, Recording and Transmitting Drilling Parameters In Real Time or at the End of Shift via USB/GSM/GPRS/Edge/WiFi. Parameters that are Commonly of Interest to be Logged Are:

- Azimuth.
- Mast Angle.
- Penetration Rate.
- Depth.
- Rotation Torque.
- Pulldown.
- Holdback.
- Water Injection Pressure
- Main Hydraulic Pressure
- Drill Rig Hour Meter



EDM[®]
EXPLORATION DRILL MASTERS

SCHRAMM INC

Rotary Top Head Drilling Rig for:

- WATER WELL
- ENVIROMENTAL
- SHALLOW OIL & GAS
- GEOTHERMAL
- EXPLORATION
- BLAST HOLE
- MINING



Air Drill Reverse Circulation Hammers

Exploration Drill Masters Represents and Carries a Large Stock of Schramm's range of Airdrill Reverse Circulation Hammers. Airdrill Hammers are Known for Their Low Air Consumption and High Power with a Focus on Reverse Circulation Hammers .

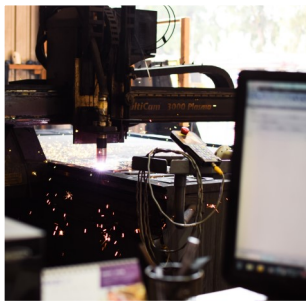
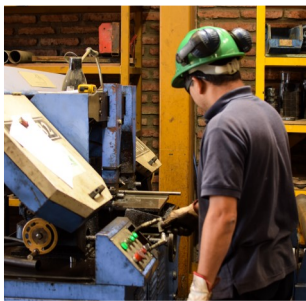
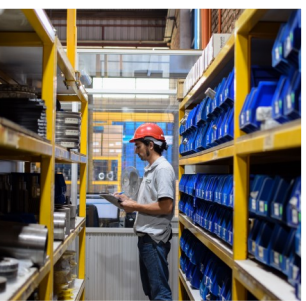
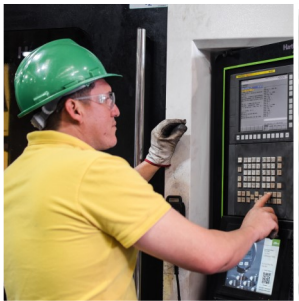
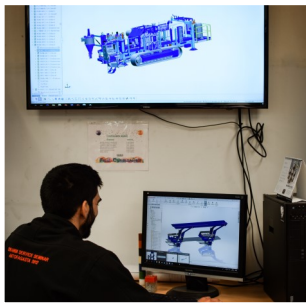
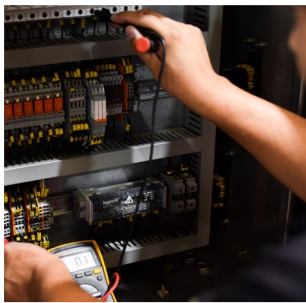
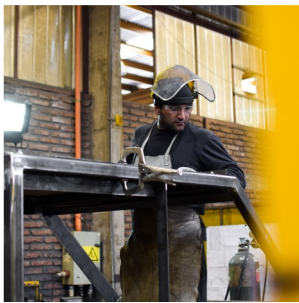
EDM currently has Large Stock of the Following Hammers in the Range:

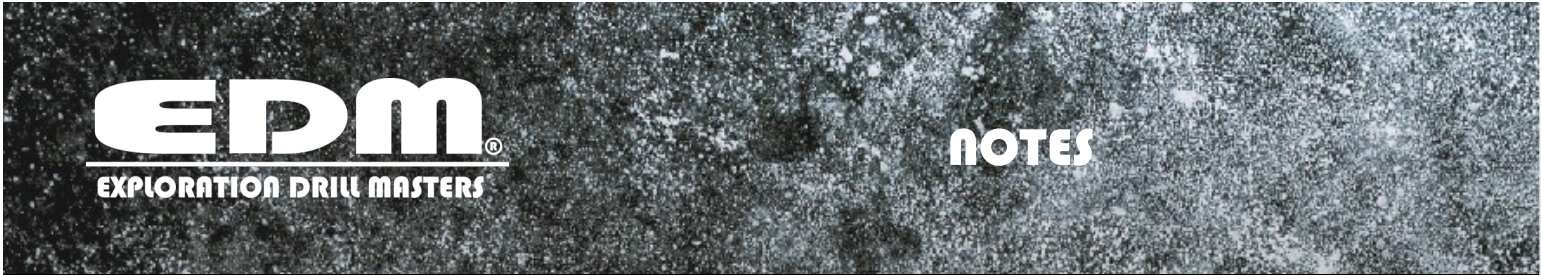
- AD660 – 130mm with Drill Bits from 5 ¾" to 5 3/8"
- AD650 – 125mm with Drill Bits from 5 ¾" to 5 ¼"
- AD640 – 121mm with Drill Bits from 5" to 5 ½"





WORK TEAM





EDM
EXPLORATION DRILL MASTERS

NOTES

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