

SCX
SUNNY CORNER
EXPLORATION

PRODUCT GUIDE



TABLE OF CONTENTS

Our Mission	4	Core Drilling Tools	34
SCX Products Around the World	6	Drill Rod & Casing Details	38
Why the DE712 Wins	8	Reverse Circulation Hammers & Bits	40
Exploration Drill Rigs	10	RC Hammer & Bit Selection	42
Surface Core Drill Rigs	12	Diamond Enhanced Bit Advantages	44
DE710 (UDR200)	14	RC Hammer Profiles	46
DE712	16	Aftermarket Parts	48
DE740 (UDR250)	18	Drilling Equipment	49
Underground Core Drill Rigs	20	Site Services	52
DE110	22	Shop Services	53
DE130	24	Our Locations & Distributors	54
DE142	26	Discovery Drill Manufacturer LTD.	56
DE151	28	DDM EF-75	58
Multipurpose Drill Rig Advantages	30	DDM EF-100	60
DE881 (UDR1200)	32		

WE PLAY ON EVERY CONTINENT.

SCX is the result of a **20+ year history** of fabricating and manufacturing drill rigs and down hole tools.

60+ YEARS

of Sunny Corner Enterprises Inc.

**FABRICATION AND
ENGINEERING EXPERTISE.**

1 Head Office

IN

CANADA 

NETWORK OF
Dealers on
6 Continents

2 Corporate Offices

in **Australia** 

 and **Finland**

SANDVIK



OEM FOR 2

Trusted Names in Exploration

1000+ SCX

Supported **Drill Rigs**

OPERATING IN AUSTRALIA

SCX Manufactured Drill Rigs
AND DOWN HOLE TOOLS
operating in

50+ COUNTRIES

200+ SCX

DRILL RIGS

MANUFACTURED IN

CANADA 

SCX Products in Use Around the World



Rock-Steady and Built to Outlast.

WHY THE DE712 CONTINUES TO BE OUR MOST POPULAR RIG.

DE712



Best in Class Safety Features

Proven History of Reliability
(25+ Years in the Market)

Container Shipping
(Fits in Sea Can)

Approaching 1000 Rigs Sold

Remote Trimming

EXPLORATION DRILL RIGS

Sunny Corner has been in business **since 1965** and has been manufacturing surface core, underground core and multipurpose drill rigs for some of the largest players in the exploration mining industry the past two decades.

Our team of designers, engineers, operators and our clients work as a fully integrated team of partners to ensure our equipment performs in the most demanding environments exploratory drilling requires.

In addition to our drill rig manufacturing capabilities, we also provide on-site service, aftermarket parts, unit certification and the ability to facilitate a 'back to base' or complete overhaul repair on field rigs.



SURFACE CORE DRILL RIGS

Built for the toughest conditions.

Reliable. Efficient. Field-ready.

SCX DE710 (UDR200)

“Engineered to move your way. Configurable for multiple transport setups—including packing into a 40’ container—with zero trade-offs in power or efficiency.”



SCX DE712

A mid-size coring drill with a heavy-duty base frame design, considered to be the most versatile and cost-efficient drill in its field.



SCX DE740 (UDR250)

A Rig That Delivers — telescopic mast, deep hole capability, and powerful performance.



SURFACE DRILL RIGS

SCX DE710 (UDR200)

HEAVY DUTY CORE DRILL RIG FOR SURFACE APPLICATIONS

The SCX DE710 is a mid-size coring drill that has a heavy duty base frame design. The efficient design allows the SCX DE710 to suit several different transport configurations and can be packed for shipment in an enclosed 40 ft container.

Key Features

- Radio remote tramming with no driver compartment
- FOPS fitted over the control panel
- Rotating rod guard with interlock
- “P” size rotation unit with chuck drive and hollow spindle
- Stepless rotation speed control
- Pilot hydraulic controls
- Self-propelled drill unit
- Rod handling available
- One rod clamp can support B, N, H, P and S rod sizes, 44.5 to 177.8 mm (1-3/4 to 7 in)
- Safety spin capable of making up and breaking out of rod joints during tripping operations
- Fits in a high cube 40 ft closed shipping container
- Tier 1 diesel engine
- John Deere® engine

OPTIONS

- ▶ Safety spin capable of making up and breaking out of rod joints during tripping operations
- ▶ High altitude boost system – enables operation above 2,000 m+ (6,560 ft)
- ▶ Fire suppression system – suitable for sub-zero climates
- ▶ Jaw kit to support B, N, H and P size rods
- ▶ Truck or crawler configuration
- ▶ Handrails & Walkways

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity

1,126 m

3,693 ft

Feed Force

5.5 tonnes

12,000 lbf

Pull Force

9.3 tonnes

20,500 lbf



SURFACE CORE DRILL RIGS

SCX DE712

HEAVY DUTY CORE DRILL RIG FOR SURFACE APPLICATIONS

Safety is set at priority. The SCX DE712 is a heavy duty core drill for surface applications and is based on the established SCX DE710 model. This highly productive and reliable rig offers peace of mind with increased safety on an already proven design.

Key Features

- Radio remote tramming with no driver compartment
- FOPS fitted over the control panel
- Rotating rod guard with interlock
- “P” size rotation unit with chuck drive and hollow spindle
- Stepless rotation speed control
- Pilot hydraulic controls
- Self-propelled drill unit
- One rod clamp can support B, N, H, P and S rod sizes, 44.5 to 177.8 mm (1-¾ to 7 in)
- Fits in a high cube 40 ft closed shipping container
- Hydraulically operated left-hand and right-hand walkways
- Cummins® tier 3 or Stage 5/Tier 4 diesel engine models available
- Wireline spooler – increases life of rope and uptime via smooth rewinding
- Fire suppression system – suitable for subzero climates
- Main winch travel limiter
- Safety spin capable of making up and breaking out of rod joints during tripping operations
- Rod handling available

OPTIONS

- ▶ High altitude system – enables operation above 2,000 m+ (6,560 ft)
- ▶ Jaw kit to support B, N, H and P size rods
- ▶ Truck or crawler configuration

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity

1,126 m

3,693 ft

Feed Force

5.5 tonnes

12,000 lbf

Pull Force

9.3 tonnes

20,500 lbf



SURFACE CORE DRILL RIGS

SCX DE740 (UDR250)

HEAVY DUTY CORE DRILL RIG FOR SURFACE APPLICATIONS

The DE740 deep hole core drill rig is capable of pulling and running rods in 9 m (30 ft) lengths. It features a telescopic mast with excellent handling and assembly characteristics and can be angled to near horizontal position. This powerful and truly space efficient core drill can provide significant value on sites where a smaller foot print is required.

Key Features

- “P” size chuck drive C40 rotation head with hollow spindle and stepless speed control
- Telescoping upper mast
- All hydraulically operated
- Self-propelled drill unit
- Rod spin guard
- Rod handling available
- One rod clamp can support B, N, H, P and S rod sizes, 44,5 to 177,8 mm (1-3/4 to 7 in)
- Head traverse system directly coupled to rotation head carriage
- Wireline wiper and safety cut out, which keeps rig cleaner and prevents overwind during wireline operations
- Tier 3 or Stage 5/Tier 4 diesel engine models available

OPTIONS

- ▶ Truck or crawler configurations
- ▶ High altitude boost system enables operation above 2000 m+ (6560 ft)
- ▶ Fire suppression system suitable for subzero climates
- ▶ Hydraulic folding walkways for ease of maintenance work
- ▶ Safety spin capable of making up and breaking out drill rods during tripping operations
- ▶ Hydraulically operated left-hand and right-hand walkways and provides easy access to areas of rig requiring maintenance.

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity

2,000 m

6,560 ft

Feed Force

6.8 tonnes

15,000 lbf

Pull Force

13.6 tonnes

30,000 lbf

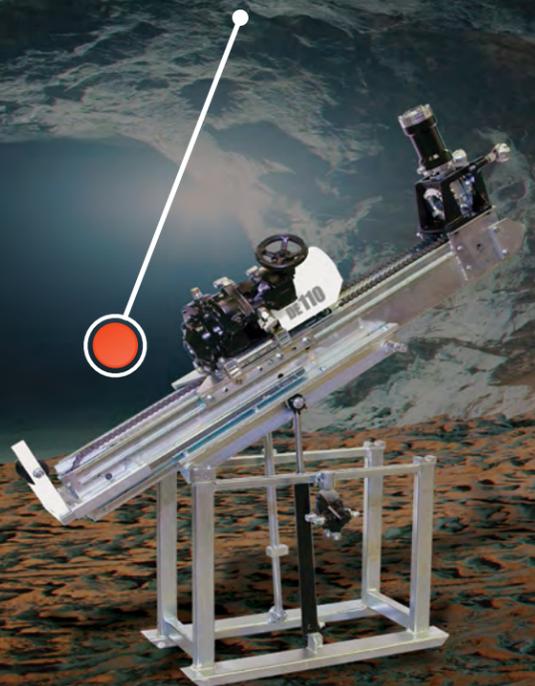


UNDERGROUND CORE DRILL RIGS

Compact, rugged and ready.
Designed to explore and maneuver where others can't.

SCX DE110

The smallest of the SCX family, built to handle underground core sampling. Mighty performance, tiny footprint.



SCX DE130

Versatile. Proven. Cost-efficient. This rig has earned its stripes in underground applications including core drilling and mine development."



SCX DE142

Maximum torque and higher operator safety. The most economical drill in its class; delivered in a rugged, reliable design



SCX DE151

Surface or underground, this rig combines top-end size and power for unmatched drilling performance in its class."



UNDERGROUND CORE DRILL RIGS

SCX DE110

COMPACT UNDERGROUND & SURFACE CORE DRILL RIG

The SCX DE110 is the smallest member of the family and has been designed as a portable drill rig for 46 mm (1-13/16 in) or "A" size exploration, grade control and grout-hole drilling. The SCX DE110 is also well suited for rock or concrete sampling with a maximum hole size of 116 mm (4-1/2 in) to depths up to 30 m (100 ft). This unit is equally suited for both underground and surface applications.

Key Features

- CE marked to meet European standards (Conformité Européenne)
- Rotating rod guard with interlock
- All hydraulic operation
- Synchronized rod handling
- Compact and portable by vehicle or helicopter
- Control panel for central control of all drilling operations
- Torque and RPM adjustable to suit rock formation
- Double hydraulic pump for water pump drive
- Jaws for 33.5mm, 46mm and 50mm drill rods
- 360 degree turntable mounted to the frame

OPTIONS

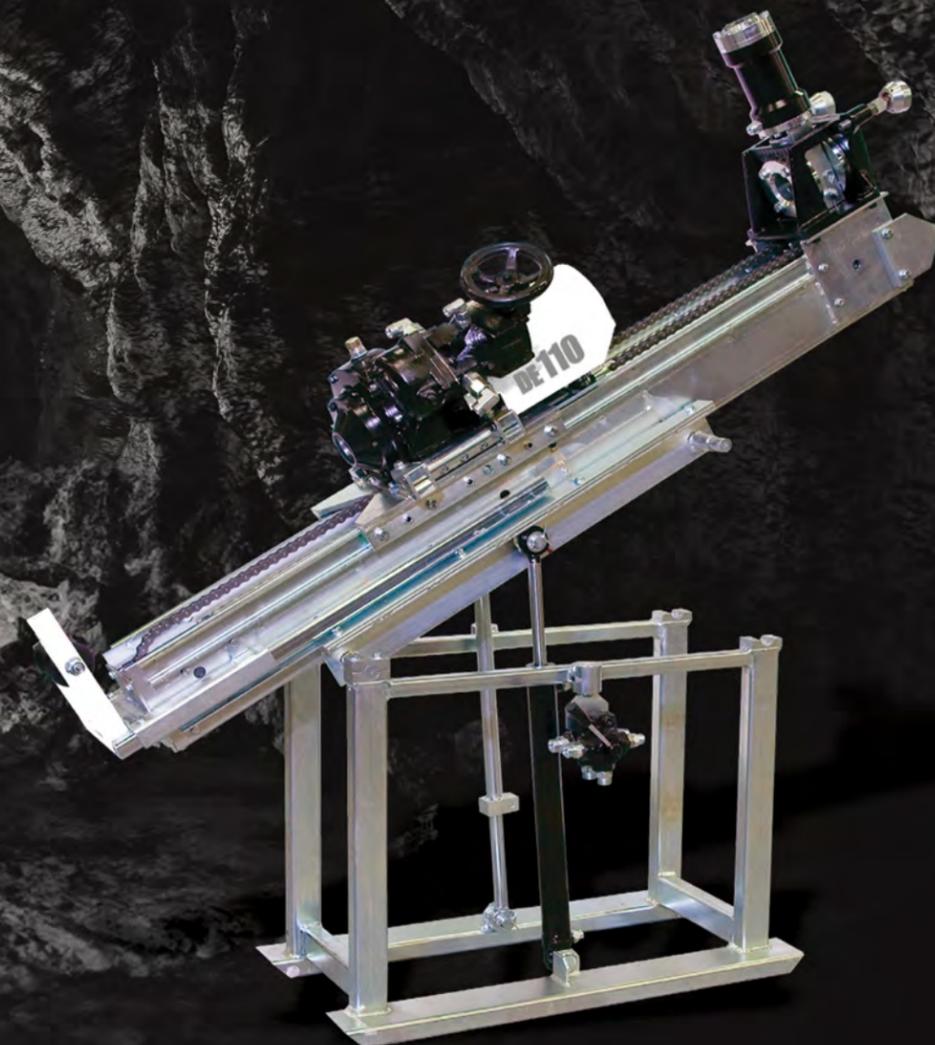
- ▶ Rod holder / rod clamp 119 mm
- ▶ Low gear high torque rotation unit

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity	230 m	755 ft
Feed Force	1.7 tonnes	3,770 lbf
Pull Force	1.1 tonnes	2,400 lbf



UNDERGROUND CORE DRILL RIGS

SCX DE130

COMPACT UNDERGROUND & SURFACE CORE DRILL RIG

Through continuous improvements, the DE130 has become truly versatile and has proven itself in a number of applications in mining such as underground core drilling, surface exploration drilling, and underground mine development.

Key Features

- CE marked to meet European standards (Conformité Européenne)
- Rotating rod guard with interlock
- All hydraulic operation
- Automated clamping for optimized rod tripping
- 360° turntable attached to the rig base
- Dedicated control panel for all drilling operations
- Heli-portable in easily detachable modules
- Designed for easy set-up when fan drilling underground
- Mechanical feed boom lineal adjustment allowing the feed boom to contact ground
- Load sensing hydraulic system for optimized power efficiency

OPTIONS

- ▶ Rod holder / clamp 150 mm
- ▶ H size rotation unit
- ▶ N size rotation unit – high torque
- ▶ Extendable wireline mast

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity	815 m	2,674 ft
Feed Force	4.7 tonnes	10,360 lbf
Pull Force	6.3 tonnes	13,820 lbf



UNDERGROUND CORE DRILL RIGS

SCX DE142

COMPACT UNDERGROUND & SURFACE CORE DRILL RIG

The SCX DE142 is a compact and powerful drill rig designed with a high power output to provide maximum rotation torque. A direct feed frame is provided with no chains to maintain a higher level of safety for operators. The SCX DE142 retains the same high rotation torque as the previous DE140 MAX TORQUE model and features a feed and pull force of 9.4 t (20,730 lbf).

Key Features

- CE marked to meet European standards (Conformité Européenne)
- Rotating rod guard with interlock
- All hydraulic operation
- Automated clamping for optimized rod tripping
- 360° turntable attached to the rig base
- Dedicated control panel for all drilling operations
- Direct feed to rotation unit (No chains)
- Load sensing hydraulic system for optimized power efficiency
- Designed for easy set-up when fan drilling underground
- Direct feed push and pull of 9.4 tonnes
- Rod holder closes automatically by gas accumulator, and opens hydraulically
- Mechanical feed boom lineal adjustment allowing the feed boom to contact ground
- Torque control for rotation

OPTIONS

- ▶ Rod holder / clamp 150 mm
- ▶ Extendable wireline mast

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity	830 m	2,730 ft
Feed Force	9.4 tonnes	20,730 lbf
Pull Force	9.4 tonnes	20,730 lbf



UNDERGROUND CORE DRILL RIGS

SCX DE151

COMPACT UNDERGROUND & SURFACE CORE DRILL RIG

The SCX DE151 is the most powerful H size drill rig in the SCX DE100 series range and suitable for both surface and underground applications. This easy to operate unit has a unique combination of size and capability. It has the highest push and pull capacity in the SCX underground drill rig range.

Key Features

- CE marked to meet European standards (Conformité Européenne)
- Rotating rod guard with interlock
- All hydraulic operation
- Rod holder closes automatically by gas accumulator, and opens hydraulically
- Direct feed push and pull of 15 tonnes
- Synchronized rod handling for optimized rod tripping
- Load sensing hydraulic system for optimized power and efficiency
- Pilot operated control system
- Hydraulic feed boom positioner allowing telescoping to contact ground
- Stable steel mounting frame with tilt cylinders
- Mechanical feed boom lineal adjustment allowing the feed boom to contact ground
- Control panel – pilot operated hydraulic system, with central control of all drilling operations.
- Wireline hoist with capacity up to 1,200 m
- 360° degree turntable attached to the rig base

OPTIONS

- ▶ Wireline hoist with 2,000 mt capacity
- ▶ 2,500 mm wireline mast

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity

1,945 m

6,381 ft

Feed Force

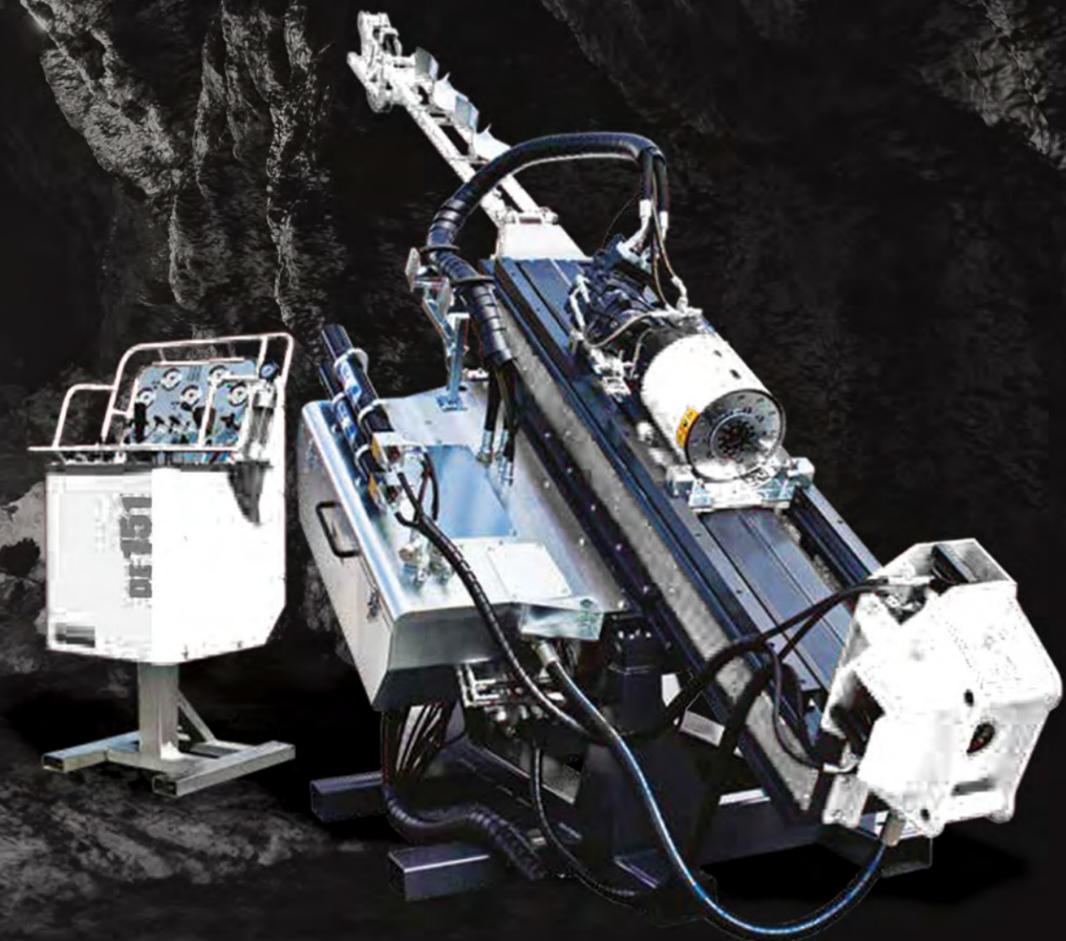
15 tonnes

33,000 lbf

Pull Force

15 tonnes

33,000 lbf



“THE BEAST”

One Rig. Every Job.

The rig that sets the benchmark for muscle and depth in its class.

Customizable to Drilling Needs

Robust Design

Coring and RC Drilling Capabilities

Best-in-Class Safety Features

**Automated Rod Loader
(DA554 or DA555)**

MULTIPURPOSE CORE DRILL RIGS

SCX DE881 (UDR1200)

“The Beast”

MULTIPURPOSE DRILL RIG FOR SURFACE APPLICATIONS

The SCX DE881 (UDR1200) is a heavy duty multipurpose exploration drill rig, it is the industry benchmark in performance and offers more depth capacity in both diamond and reverse circulation drilling compared to its rivals. It is the most powerful drill rig in the SCX range of exploration drills, and it is recognized by those who demand industry leading performance.

Key Features

- DA555 Diamond / RC Rod Handler for hands-free rod handling
- Hands-free breakout tool
- FOPS fitted over the control panel
- Jaws for N, H and P sizes rod handler and rod clamps
- Starter rods included for N, H, and P sizes
- Rotating rod guard with interlock
- Cummins QSL9 inline 6 cylinder Tier 3 engine
- Front mount diesel engine
- Sophisticated microfeed system
- Water/Mud pump
- Water swivel
- Acoustic enclosure on the engine
- Powerful top drive rotation unit
- Self-energizing rod clamp
- One rod clamp can support B, N, H, P and S rod sizes, 44.5 to 177.8 mm (1-3/4 to 7 in)
- Auxiliary hydraulic outlets
- Multiple guarding to reduce risk of moving components and rotating rod injury
- Onboard rod storage
- Remote wedge interlock kit
- Deck mounted wireline winch
- Wireline counter/cleaner/overrun cut out
- Left-hand hydraulic operated walkway with stairs
- Fluid catch tray under engine
- High pressure filter kit
- Hose sleeving on high risk hoses
- Air line oiler

OPTIONS

- ▶ Safe-T-Spin rod joint torque/make/break device
- ▶ Fitment options for multiple trucks
- ▶ Auxiliary air compressor
- ▶ Arctic heating package
- ▶ Fire suppression system suitable for subzero climates

SPECIFICATION

METRIC

IMPERIAL

Depth Capacity (coring)

2,223 m

7,291 ft

Depth Capacity (RC)

446 m

1,463 ft

Feed Force

11.4 tonnes

25,350 lbf

Pull Force

23 tonnes

50,700 lbf





CORE DRILLING TOOLS

We offer a complete range of top-quality, hard-wearing sampling equipment for even your most demanding diamond drilling applications.

EXPLORATION CORING TOOLS

DIAMOND DRILL RODS & CASINGS

You can depend on our stringent developmental practices and testing for superior, hard wearing and cost-effective diamond drill rods. Manufactured to the highest quality and built for performance, the range is complemented by a full selection of drill string components for core drilling applications.

We Stock **Standard Lengths**
1.5m/5ft & 3m/10ft

And **Standard Diameters**

B:55.6mm/2.19in H:88.9mm/3.5in
N:69.9mm/2.75in P:114.3mm/4.5in

The drill rod is a significant investment in most drilling operations, selection and maintenance play a critical role in maximizing service life and return on investment.



We manufacture our own Canadian-Made Drill Rods & Casings here in Miramichi, NB. Available in:

- ▶ TK Rods
- ▶ Lightweight Wireline Drill Rods
- ▶ Heavy Duty Wireline Drill Rods
- ▶ Lightweight Heavy Duty Wireline Drill Rods
- ▶ Casing W/WT Threads
- ▶ Standard Wireline Drill Rods
- ▶ Standard T Wireline Drill Rods
- ▶ R Wireline Drill Rods

DIAMOND BITS



SCX SERIES

Impregnated Diamond Coring Bits

In an impregnated drill bit, synthetic diamonds are embedded in a composite metal crown called a matrix.



SCX SERIES

Reaming Shells

The reaming shell is the component of a drill string used to maintain the correct gauge of the hole. It features a ring around the outer diameter which contains diamonds and TSP inserts.

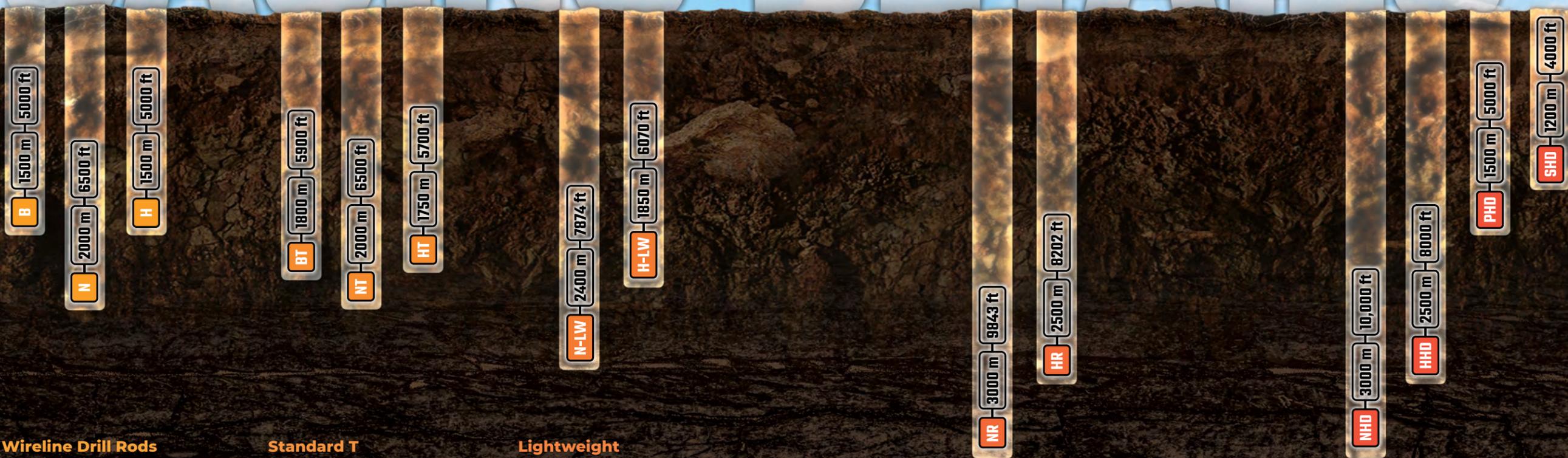


SCX SERIES

Casing Shoes

Casing shoes are used at the end of a casing string, in place of an actual bit. Typically, they're only required to drill through over burden, so their composition is much simpler and therefore less expensive.

DRILL ROD & CASING DETAILS



Wireline Drill Rods

RP622 Series Rods

The SCX RP622 series of drill rods features the industry standard modified ACME thread on the box and pin ends with the appropriate stand-off gap to ensure a tight seal.

Standard T Wireline Drill Rods

RP623 Series Rods

The SCX RP623 series of drill rods features a robust, modified square profile thread on the box and pin ends commonly referred to in the industry as "T".

Lightweight Wireline Drill Rods

RP635 Series Rods

SCX RP635 rods are manufactured using variable wall material and features the industry standard modified ACME thread on the box and pin ends with the appropriate stand-off gap to ensure a tight seal.

Standard R Wireline Drill Rods

RP640 Series Rods

The SCX RP640 Series "R" wireline drill rods feature an industry proven thread form that has proven itself time and time again as a quality thread that will meet all of your requirements for deep hole drilling applications.

Heavy Duty Wireline Drill Rods

RP625 Series Rods

SCX RP625 rods feature an industry proven buttress thread form that has proven itself time and again as a quality thread that will meet all of your requirements for deep hole drilling applications.

REVERSE CIRCULATION HAMMERS & BITS



SCX carries a full range of RC down-hole hammers with integrated bits designed to offer a cost effective, heavy duty sampling system for obtaining a continuous, high quality geological sample. By maximizing the energy output and minimizing air consumption, our products help you achieve superior production rates and low cost per meter drilling.

We are the OEM of the previously known SANDVIK® line of Reverse Circulation hammers and bits providing you with the same quality you know and trust.



We Stock **Standard Lengths**

We offer a range of Metzke & Remet Threads

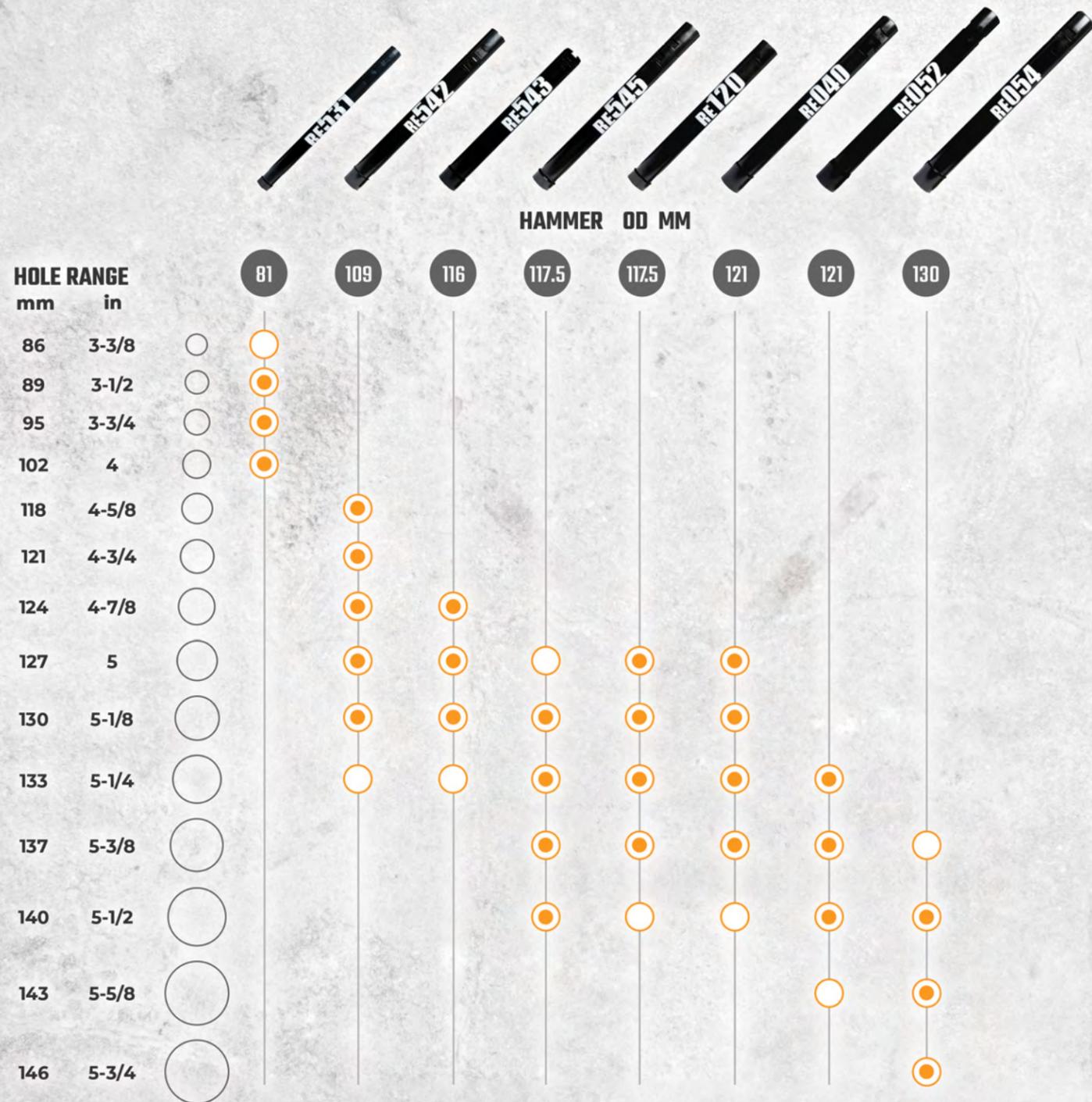
1.5m/5ft & 3m/10ft

And **Standard Diameters**

H:88.9mm/3.5in

P:114.3mm/4.5in

RC Hammer & Bit Selection



Correct hammer selection is critical to the success of your drilling operation. SCX is renowned for engineering RC hammers with integrated bits to suit all depth capacities and ground conditions.

Incorporating innovative design, quality steel grades and heat treatment, our products are designed to increase penetration rates, secure high quality samples, maximize hammer and bit longevity, and maintain lowest cost per meter drilling.

To achieve best performance, it is important to align the hammer with the intended hole depth, drill rods, drill rig, and available air volume and pressures.

- ▶ Target hole depth and size can determine hammer selection – deep holes require a range of bits and the ability of a hammer to manage increasing back pressure as the hole deepens.
- ▶ Air volume and pressure availability, high altitude and high ambient temperatures will impact compressor outputs, limiting hammer performance if not factored in the calculation of required total air
- ▶ Drill rods are best aligned to hammer diameter to efficiently deliver air to the hammer, maximizing performance and sample recovery.
- ▶ Down-hole pressure losses – back pressure as a result of increasing hole depth and/or ground water in the hole, will require further air volume and pressure to maintain hammer performance to target depth.

Available Selection
Optimal Selection



Diamond Enhanced Bit Advantages

- 1 Eliminates the need to sharpen bits
- 2 Greater productivity depending on ground conditions
- 3 Higher rotation (40-50 RPM)
- 4 Faster penetration as bit remains sharp
- 5 Less re-grinding of cuttings
- 6 Larger chips produced for geologist
- 7 Improved safety as less rod pulls are required
- 8 Greater drilling efficiency with lower cost-per-meter
- 9 No excessive weight on bit
- 10 Reduced fuel consumption
- 11 Reduced wear on the drill rig
- 12 Improved bit face balance

INCREASED
BIT LIFE
BY A FACTOR
OF
3 TO **5**
TIMES



SCX
DIAMOND ENHANCED RC BIT
AFTER DRILLING
310
METER HOLE
IN MAGNETITE IRON ORE
WITH
NO BIT SHARPENING
OR
TRIPPING OUT OF HOLE



RC Hammer

PROFILES

Our complete range of RC hammers with integrated bits are manufactured to the highest quality, designed to generate higher penetration rates and lower costs in a range of drilling applications. We add value to your business delivering prolonged hammer life, streamlined maintenance and operation, and improved drilling performance.



SCX RE531
RCDHH

	Diameter Ø	
	mm	in
Hammer	81	3.1/4
Bit	86-102	3.3/8-4

Ideal for medium to hard ground, a good alternative to



SCX RE542
RCDHH

	Diameter Ø	
	mm	in
Hammer	109	4-5/16
Bit	118-133	4-5/8 - 5-1/4

Ideal for medium depth RC holes in all ground conditions.



SCX RE543
RCDHH

	Diameter Ø	
	mm	in
Hammer	116	4-9/16
Bit	124-133	4-7/8 - 5-1/4

Ideal for medium depth RC holes in all ground conditions.



SCX RE545
RCDHH

	Diameter Ø	
	mm	in
Hammer	117.5	4-9/16
Bit	127-140	5 - 5-1/2

Ideal for medium depth RC holes in all ground conditions.



SCX RE120
RCDHH

	Diameter Ø	
	mm	in
Hammer	117.5	4-5/8
Bit	127-140	5 - 5-1/2

Ideal for deep, dry exploration holes or grade control applications where high efficiency and power are required.



SCX RE040
RCDHH

	Diameter Ø	
	mm	in
Hammer	121	4-3/4
Bit	130-140	5-1/8 - 5-1/2

Ideal for grade control or shallow pre-collar holes in harder ground.



SCX RE052
RCDHH

	Diameter Ø	
	mm	in
Hammer	121	4-3/4
Bit	133-143	5-1/4-5-5/8

Exploration hammer best suited for harder ground conditions. Deep hole applications with High resistance to back pressure and in-hole water.



SCX RE054
RCDHH

	Diameter Ø	
	mm	in
Hammer	130	5-1/8
Bit	137-146	5-3/8-5-3/4

Exploration hammer best suited for harder ground conditions. Deep hole applications with High resistance to back pressure and in-hole water.

AFTERMARKET PARTS

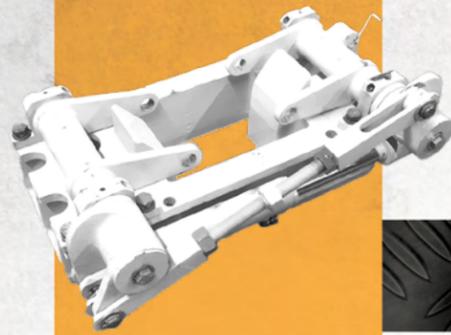
Drill Models We Support

SCX is the OEM for



DE Series →	UDR Series
DE110	-
DE130	-
DE140	-
DE142	-
DE151	-
DE710/DE712	UDR200
DE740	UDR250
DE750	-
DE770	UDR300
DE810	UDR650
DE840	UDR1000
DE880	UDR1200
-	UDR5000

DRILLING EQUIPMENT



Hydraulic Foot Clamp

The Hydraulic Foot clamp is capable of clamping 2" to 6-5/8" Rod or Casing. Adjustable to accepting every position of drill rods, this unit is mounted on a fully floating support arm, which ensures that no weight is placed on the threads, thus reducing premature wear.

Benefits: Machined Jaw assemblies suit most standard drill rod sizes with easily replaceable Inserts for NQ & HQ jaw sizes.



Rod Spinner

Hard-wearing and reliable, our Safe-T-Spin rod spinner offers one of the widest ranges in the drilling industry, able to take from 2" up to 6 5/8" Rod or Casing using the same set of jaws. Not only does this provide efficiency in the field, but it can be retrofitted to most rigs and is fully interchangeable with older designs, enabling savings to the rig operations.

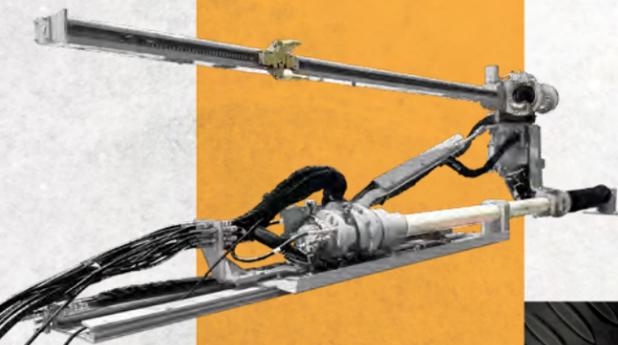
Benefits: Provides a consistent pre-torqued joint for every joint in the drill string, increasing drill rod thread life.



Rotation Head

This rotation unit has proven its reliability and performance since the UDR 200DLS drills. The MPL14230-2 rotation head is a "P" size rotation unit with chuck drive and hollow spindle; capable of handling B to P/HWT coring drill rods with ease. Now also available in a top drive configuration to suit an even wider range of drilling applications.

Benefits: Fully automatic torque-speed control for diamond drilling, which always runs the bit at the maximum possible rpm, using the maximum available horsepower.



DA554 Rod Loader

This compact rotary drill rod loader has been specially designed to enhance safety, reliability, and productivity while offering extreme versatility. It comes with a standard tram lockout safety function that prevents the jaws from moving when the tilt arm is raised above 15 degrees. Additionally, the patent cup system ensures the rod is secure, reducing the risk of rod fall. The mast-mounted configuration also ensures that the rig occupies a small operating footprint.

Benefits: Loads diamond core rods and RC rods with the one loader.

DA555 Rod Loader

This rod loader offers all the same features as the proven DA554, but the DA555 has the ability to also handle coring drill rods. The clamping cup, upper and lower aligners, custom starter rods and easily replaceable rod jaws allow the more delicate coring rods to be handled with the same efficiency and safety as reverse circulation (RC) or flush joint rotary drill rods.

Benefits: Remote hands-free rod loading system integrates with the breakout tool.



VR Series Exploration Drilling Systems

For the best in efficiency, durability, and flexibility, you can't go wrong with the state-of-the-art VR series sampling systems. The revolutionary RC Cyclone combines inlet velocity reduction with off-the-shelf liners to minimize wear and increase sampling collection efficiency. The VR670i trailer-mounted sampler incorporates equipment from the VR420 series, including the Emission Filter and Diverter Valve. The Sampling System includes a VR420 Cyclone, Interval Drop Box, and Rotaport Cone Splitter, with the option of adding the VR420 Emission Filter and Diverter Valve.

Benefits: Bag collect or flanged product outlet. Innovative design, with fewer wear parts.



VR Series Sampling Equipment

We focus on providing low wear and optimal efficiency and flexibility in sampling equipment, the VR series will more than live up to your expectations. Our VR series includes an extensive range, including the VR420 Involution Cyclone, VR440 Involution Cyclone, Interval DropBox, PLC and Pneumatic Controller, Interval DropBox and Manual Controller, Rotaport Cone Splitter, Diverter Valve VR420, VR440, and Emission Filter VR420 & VR440. A complete lineup for sampling collection success.

Benefits: By intensifying the centrifugal effect, it minimizes wear and delivers an increased sampling.



Site SERVICES

- Commissioning
- Drill Rig Repairs
- Maintenance
- Technical Support
- Training
- Drill Rig Inspection & Certification



Shop SERVICES

- Engineering
- Refurbishments
- Repairs
- Commissioning
- Drill Rig Modifications & Upgrades



Locations & Distributors





DISCOVERY DRILL MANUFACTURER (DDM) LTD.

DRIVEN BY SCX

For over 25 years, Discovery Drill Manufacturer (DDM) has built diamond drill rigs the way they're meant to be - **rugged, reliable, and engineered for extreme conditions. Designed and proven in Canada. Ready for work anywhere.**

Founded in 1999 by the late John Labonville—an industry veteran with more than 50 years of diamond-drilling experience—DDM was driven by a clear objective: Operator safety and uptime in places where downtime is expensive.

That philosophy hasn't changed. Today, as part of Sunny Corner Exploration (SCX), DDM's legacy continues—with even more backing.

A NATURAL FIT. Expanded Capability.

DDM brings decades of drill manufacturing expertise and a field-proven platform respected across Canada's exploration industry. SCX brings expanded operational capacity, broader reach, and the long-term strength to scale.

Together, we now offer customers:

- A broader range of exploration solutions
- Expanded product and service capability
- The same trusted DDM team
- Greater manufacturing depth and operational support





DDM EF-75 RIG SERIES

EF-75

Turnkey Hydraulic Diamond Drill Rig

Compact. Capable. Proven.

The EF-75 Series is built for remote exploration with deep drilling capability — up to 7,000 ft (2134m) on N. Designed with a centrally mounted drill head assembly to reduce torque demand and lower fuel consumption. Equipped with a safety guard that automatically reduces RPM when opened — protecting the driller without slowing production.

Simple design. Field efficiency. Built to keep moving.

EF-75F

Heli-Portable Turnkey Hydraulic Diamond Drill Rig

Designed for remote access and fly-in programs. Lightweight, modular, and efficient — without sacrificing depth performance.

EF-75M

Multipurpose Turnkey Hydraulic Diamond Drill Rig

One drill. Multiple configurations.

- Track-mounted standard.
- Adaptable to truck or skid mount.
- Convertible to heli-portable with minimal effort.

SPECIFICATIONS	EF-75		EF-75F		EF-75M	
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
Depth Capacity N Rods	2,134 m	7,000 ft	2,134 m	7,000 ft	2,134 m	7,000 ft
Engine*	-	Cummins 215 HP	-	Cummins 215 HP	-	Cummins 215 HP
Pull Back Capacity	16,329 kg	36,000 lbs	16,329 kg	36,000 lbs	16,329 kg	36,000 lbs
Feed Capacity	7,838 kg	17,280 lbs	7,838 kg	17,280 lbs	7,838 kg	17,280 lbs
Fly Weight (8 loads)	-	-	Not more than 1,474 kg ea.	Not more than 3,250 lbs ea.	-	-
Total Weight Ready to Drill	10,137 kg	22,350 lbs	6,392 kg	14,093 lbs	18,7562 kg	41,350 lbs

* Engine Options: John Deere and Caterpillar





DDM EF-100 RIG SERIES

EF-100

Our Most Advanced Design Turnkey Hydraulic Diamond Drill Rig

**Built for deeper core retrieval.
Built to set records.**

The EF-100 was developed to meet growing demand for deeper, more powerful exploration drilling — without sacrificing safety or efficiency.

Engineered for Heavy Performance.

Features include:

- Heavy-duty P-size drill head
- Integrated rod-breaking system
- Electronic-over-hydraulic controls
- Wireless remote operation for rod handling and levelling jacks
- Shack and crawler options available



**MORE CONTROL. MORE POWER.
LESS MANUAL STRAIN.**

SPECIFICATIONS	METRIC	IMPERIAL
Depth Capacity N Rods	3,048 m	10,000 ft
Engine*	-	Cummins 215 HP
Pull Back Capacity**	22,680 kg	50,000 lbs
Feed Capacity	6,943 kg	15,306 lbs
Total Weight Ready to Drill	18,756 kg	41,350 lbs
Dimensions	7.01 m (L) x 3.61 m (W) x 2.90 m (D)	23' L x 11'10" W x 9' 6" D

* Engine Options: John Deere and Caterpillar

** More Pull Back Capacity Available upon Request



DIG DEEPER





WWW.SCXPLORATION.COM



scxinquiries@sunnycorner.ca



1 (506) 622-6811