BOART LONGYEAR

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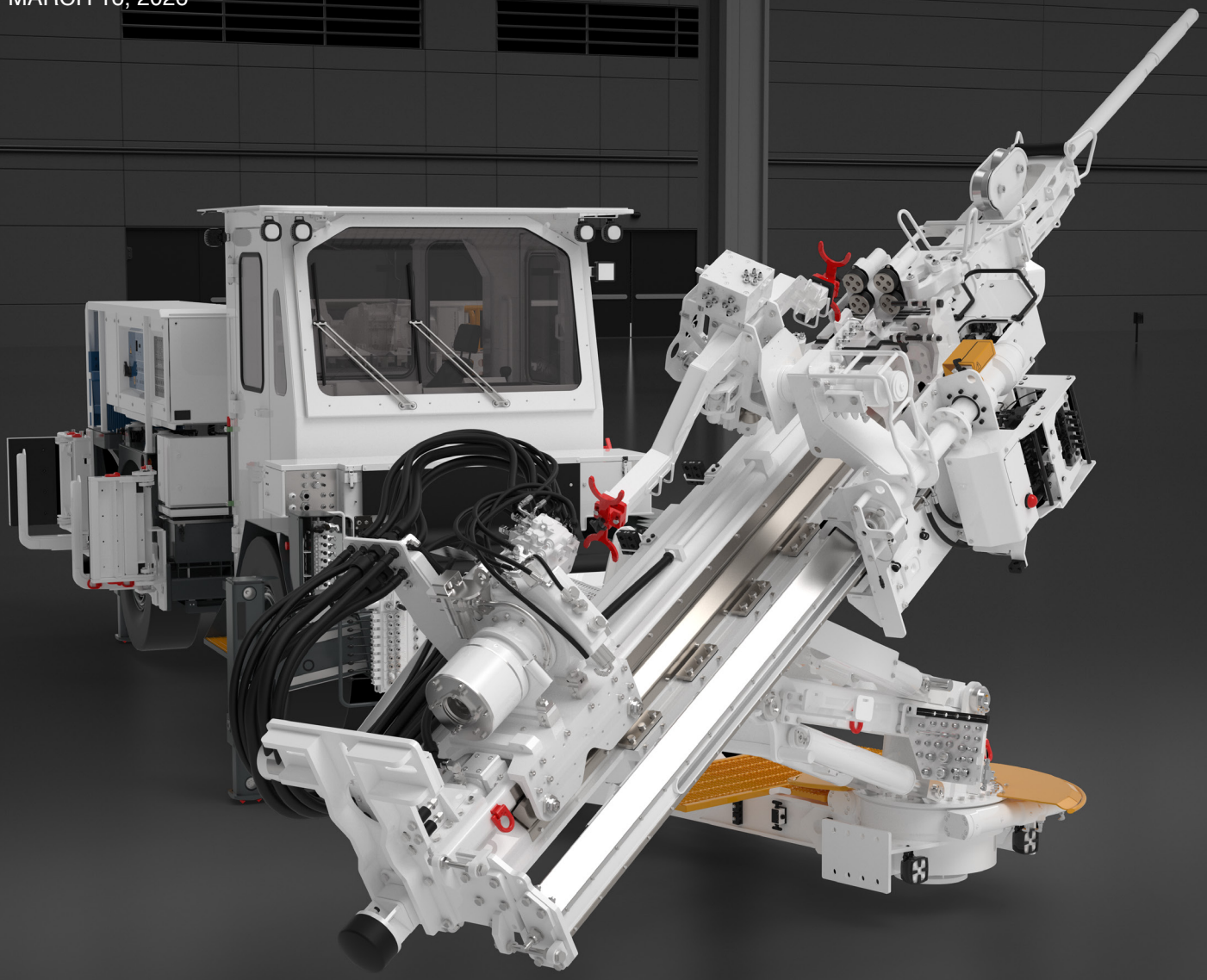


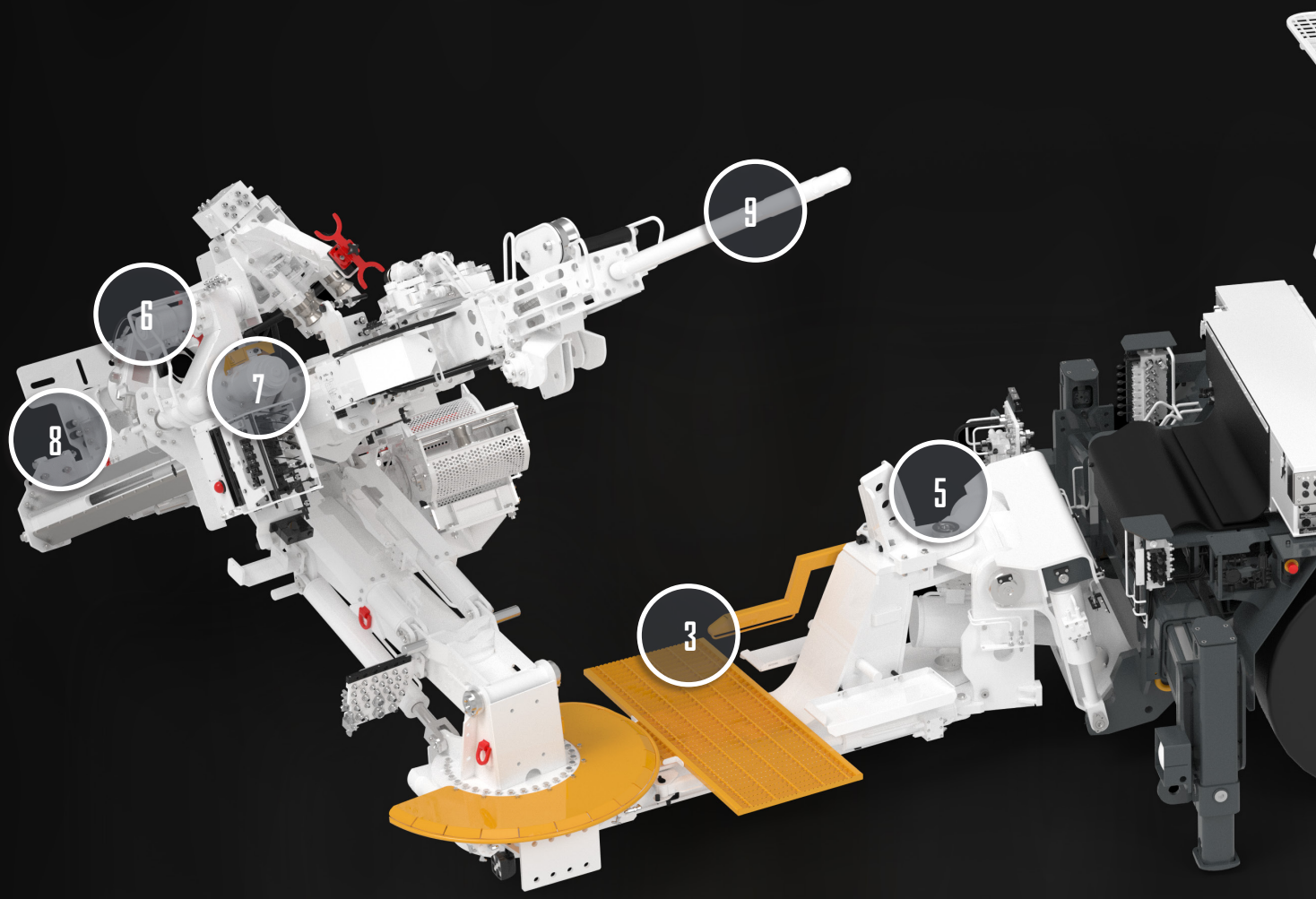
LM132® MDR MOBILE DRILL RIG

MOBILE UNDERGROUND CORING

The LM132 MDR marks the newest generation of our flagship self-powered exploration Mobile Drill Rig. This new robust mobile platform delivers dozens of safety and productivity enhancements plus several essential game-changers including an air-conditioned cab with full drill-from-cabin option and Boart Longyear's latest Rod Inner Tube and Outer Tube Handling system.

TRUSTED AT EVERY TURN™

LM132 MDR MOBILE UNDERGROUND CORING DRILL



1. ROBUST & STABLE MINE SPEC CARRIER

The LM132 Mobile Drill Rig is an efficient and versatile machine designed for challenging underground environments. It features a robust and stable mine spec carrier that facilitates faster and easier rig movements. Equipped with four-wheel drive and diesel engine, the carrier can travel at speeds of up to 10 km/h (6.2 mph) ensures it can navigate small underground drives with ease.

2. AIR-CONDITIONED ROPS & FOPS CABIN

Comfort and safety are prioritized in the MDR's air-conditioned ROPS & FOPS rated cabin. The air conditioning is powered by the diesel engine while the rig is in motion or by the electrically powered hydraulic system during drilling, ensuring a comfortable working environment in all conditions. The 2.8m tall cabin allows allows the operator to stand while drilling and provides improved visibility during tramming. The spacious cabin features USB device charging, an A4-sized desk, and a bench, providing a comfortable space for an off-sider to cool down in the cabin (for stationary use only).

3. DRILL ACCESS PLATFORM

The removable access platform option (not shown) provides a convenient jump up stand for operators.

4. DRILL FROM CABIN

Choose from the familiar remote Operator Control Panel (OCP) which can be positioned wherever the operator desires or for the first time the operator can control the drill from a second OCP mounted within the comfort and safety of the air conditioned FOPS rated cabin.

5. FULLY ENGINEERED DRILL POSITIONING ARM

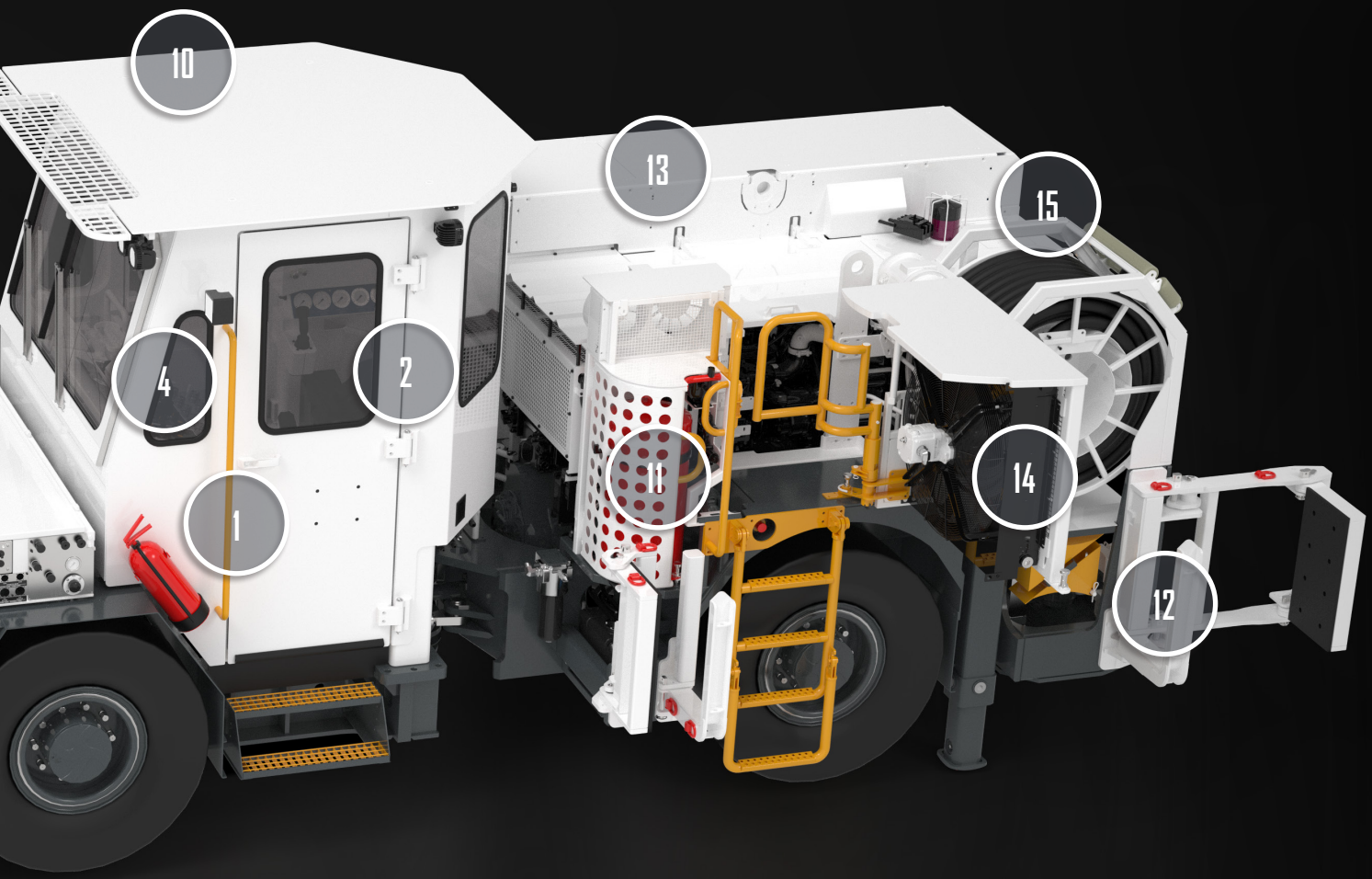
The MDR features a fully engineered, radio remote-operated drill positioning arm with 270 degrees of Horizontal drilling range and +90 to -90 dip angles. The unique arm design provides more flexibility in rod handler positioning compared to conventional boom designs allowing the handler to be positioned between the feed frame and carrier. With the arm deployed the carrier can be crawled forward and backwards for fine adjustment which is ideal for lining up for hole re-entry.

6. FAIL SAFE ROD HOLDER

Hydraulic open and spring close rod clamp provides fail safe operation.

7. SEMI-AUTOMATED ROD, INNER TUBE & OUTER TUBE HANDLING SYSTEM (B, N, H)

Safety and productivity are further enhanced by the semi-automated rod, inner tube, and outer tube handling system, which allows a single operator to safely manage the loading and unloading of coring rods and tubes. A wireline tensioning system enables the handling of inner tubes while the overshot remains attached.



8. HIGH TORQUE BREAK OUT
Automated high torque break out device.

9. 700 FEED FRAME WITH EXTENSION STINGER
The MDR comes as standard with Boart Longyear's proven 700 Series 1.8 m stroke direct coupled feed frame, with the optional of a short 1.0 m stroke feed frame for tighter setups (rod handling not available with 1.0 m stroke). The telescoping mast extension with stinger kit allows the mast to be secured without the need to drill and anchor.

10. DCI SEMI-AUTOMATED CONTROL SYSTEM
The proven DCi Control system with laser & area clear safety management system, Unattended drilling and Data Logging plus for the first time the ability to drill from the safety and comfort of the air-conditioned FOPS rated cabin.

11. FIRE SUPPRESSION
To meet the strictest safety requirements, the MDR can be delivered with our standard fire suppression system or fitted with a customized solution to suit your local requirements.

12. ON BOARD ROD STORAGE
The fold away rod storage arms are engineered to carry up to 210 m (700 ft) of N size rods on board (3 m or 10 ft lengths).

13. DRILL POWER PACK
132 kW (177 hp) electric motor powering drill and air conditioning system with configurable soft starter allowing drill to be detuned to suit available mine power as needed.

14. AIR BLAST COOLER
Integrated air cooling of hydraulics minimizes mine water usage and setup times. Water cooling is also included. The MDR can be user-configured to use either cooling system or both as required.

15. CAMERAS
Single rear camera as standard.

Optional: Two side rear-mounted cameras and two front-facing cameras, an additional monitor, and 1 TB of storage—equivalent to approximately 210 hours of recording.

16. OPTION: HIGH PRESSURE WASHER
A high-pressure washer is included for rig washdown.

17. OPTION: MINE WATER SHUT OFF
A valve automatically shuts off cooling water upon completion of an unattended drilling routine.

DRILL CARRIER SPECIFICATIONS

	Metric	U.S.
Weight (LM132 MDR to be confirmed)	22400 kg - no rods 24000 kg - with rods	49383 lb - no rods 52911 lb - with rods
Arm Ground Clearance	226 mm	8.9 in
Length	Transport: 9500 mm Drill to Side: 10200 mm Drill to Front: 10800 mm *All dimensions approximate	Transport: 31.2 ft Drill to Side: 33.5 ft Drill to Front: 35.4 ft *All dimensions approximate
Height	2800 mm	110.25 in
Wheelbase	3350 mm	131.9 in
Width	2250 mm	88.6 in
Width with Rod Bins out	3285 mm	129 in
Minimum Reccomended Transport Drive Cross Section	3 m wide x 3 m high	118 in wide x 118 in high
Minimum Cutout size for drilling	5.2 m (204.7 in) wide in standard 1.8 m stroke 700 Feed Frame configuration with Handling System 4 m (157.5 in) wide with 1.0 m stroke 700 Feed Frame and no Handling System	
Engine	Cummins F3. 8, Stage 5 (unrated option)	
Engine Power	100 kW	134 hp
Max Speed	10 km/h 0° (Horizontal) 4 km/h + 10° (1:5.7)	6.2 m/h 0° (Horizontal) 2.5 m/h + 10° (1:5.7)

DRILL CARRIER SPECIFICATIONS

	Metric	U.S.
Max. lateral Gradient	5°	
Max longitudinal gradient up hill	15°	
Max longitudinal gradient down hill	15°	
ROPS	Complaint to EN ISO 3471:2009	*independent verification testing pending
FOPS	Complaint to EN ISO 3449:2009 level II	*independent verification testing pending
Lighting	LED work and driving lights front and rear; stop lights	
Reversing Camera	Yes	
On Board Rods	(70) N-size x 3 m (210 m total)	(70) N-size x 10 ft (700 ft total)

DRILL CARRIER TURNING RADIUS

	Metric without/with Rods	U.S. without/with Rods
Inner Radius	4112 / 3920 mm	162 / 154 in
Outer Radius	6674 / 7521 mm	263 / 296 in

DRILL DEPTH GUIDELINES (STANDARD CONFIG 700 FF WITH HQ RH AND HI-TORQUE ROTATION UNIT)

Drill Rod / Core Barrel	Hole Depth - Metric			Hole Depth - U.S.		
	Up	Horizontal	Down	Up	Horizontal	Down
ARQ™ TK*	650	1500	1700	2133	4920	557
BQ™	400	1500	1302	1313	4920	4207
NQ™	250	1260	903	819	4140	2963
NQ W-WALL	272	1360	1007	894	4462	3303
HQ™	120	640	534	393	2120	1752
HQ W-WALL	137	730	630	449	2395	2067
Note	Depth capacity includes allowance for force required to break core using 10 MPa rock strength					
**ARQ™ TK capacity shown for comparison purposes only. It is not recommended drilling practice to drill over 1500m depth*						
Horizontal values shown are derived from LM110 published data and others from MDR700. Values should be considered preliminary and need to be confirmed with physical testing once the first rig is built. Depth calculations assume ideal conditions and appropriate down hole tooling selection.						

POWER PACK

	Metric	U.S.
Drill Functions Electric Motor	132 kW	177 hp
Electric Group Offerings	1000 VAC @ 50 Hz (3 PH) 380-400 VAC @ 50 Hz (3 PH) 575-600 VAC @ 60 Hz (3 PH) *For other options please consult local Boart Longyear representative*	
Cable Length on Real	1000 VAC ~ 60 m 380-400 VAC ~ 65 m 575-600 VAC ~ 70 m	1000 VAC ~ 197 ft 380-400 VAC ~ 213 ft 575-600 VAC ~ 230 ft

WATER PUMP

Model	FMC W1122 BCD		FMC L1122D	
	Metric	U.S.	Metric	U.S.
Max Pressure	70 bar	1000 psi	70 bar	1000 psi
Max Flow with standard settings	177 lpm @ 794 rpm	47 gal (US) per min @ 794 rpm	177 lpm @ 794 rpm	47 gal (US) per min @ 794 rpm
Pump Rated Max Flow FMC max rating (*only achievable with spool change)	201 lpm @ 900 rpm	53 gal (US) per min @ 900 rpm	284 lpm @ 1275 rpm 3070612 spool	75 gal (US) per min @ 1275 rpm 3070612 spool

*Note increasing spool size will reduce resolution of water flow control in drilling range.

FEED FRAME

Feed Frame (LM™ 700 Series)	Metric	U.S.
Feed Stroke	1800 mm	70.87 in
Max. rated push force (Drilling)	39.77 kN @ 210 bar	8940 lbf @ 3045 psi
Max. rated push force (Handling)	53.02 kN @ 280 bar	11920 lbf @ 4061 psi
Max. rated pull force (Drilling/Handling)	79.96 kN @ 280 bar	17976 lbf @ 4061 psi
Rated carriage speed	0.70 m/s per complete cycle	3 ft/s per complete cycle
Normal rod handling speed	Approximately 15 m/min.*	Approximately 50 ft/minute*
**Actual rod handling speed may vary with working conditions. Handling speed includes rod handler operation time as part of the cycle. 1.0m feed stroke also available. Consult your local Boart Longyear sales representative for other feed frame requirements.*		

CHUCK

HQ™ HD Chuck	
Maximum Opening	97 mm (3.82 in) Diameter corresponding to the ID of the HQ guide bush
Type	Closed hydraulically Opened mechanically (Spring) Automatic synchronization with rod holder
Jaws	3 with tungsten carbide inserts
Max. rated axial holding capacity	85 kN* (19109 lbf*)
Max. rated static torsional holding capacity	Forward and reverse rotation 3900 N-m (2870 lbf*)
**New jaws and rods*	

WIRELINE HOIST

	Metric	U.S.
Type	Hydraulically driven with electronically controlled proportional free spool. Chain drive spooling device.	
Line Pull		
Bare Drum	11.77 kN	2649 lb
Full Drum	4.51 kN	1015 lb
Line Speed		
Bare Drum	0 - 100 m/min	328 ft/min
Full Drum	0 - 254 m/min	833 ft/min
Drum Capacity		
5 mm	1500 m	4921 ft
6 mm	1000 m	3280 ft

DRILL HEAD HQ MK2 STANDARD ROTATION UNIT

Forward Rotation	Metric	U.S.
Speed	Speed 1600RPM, continuously variable (Speed will vary with oil type and temperature and is approximate only)	
Torque output *Conservative LM110 values used until 132kW testing values available.*	300Nm @ 1600RPM	221 lb-ft @ 1600 RPM
	600Nm @ 850RPM	442 lb-ft @ 850 RPM
Reverse Rotation		
Speed	Limited to help prevent rod thread damage	
Reverse Torque output	Torque output @2730N-m with break-out device@ 21 MPa	2013 lb-ft with break-out device @ 4500PSI

DRILL HEAD HQ MK2 HIGH-TORQUE ROTATION UNIT

Forward Rotation	Metric	U.S.
Speed	1300 RPM, continuously variable (Speed will vary with oil type and temperature and is approximate only)	
Torque output *Conservative LM110 values used until 132kW testing values available.*	371 N-m @ 1250 RPM	274 lb-ft @ 1250 RPM
	1030 N-m @ 500 RPM	760 lb-ft @ 500 RPM
Reverse Rotation		
Speed	Limited to help prevent rod thread damage	
Reverse Torque output	3600 N-m with break-out device @ 31 MPa	2655 lb-ft with break-out device @ 4500 PSI

ROD INNER TUBE AND OUTER TUBE HANDLING SYSTEM

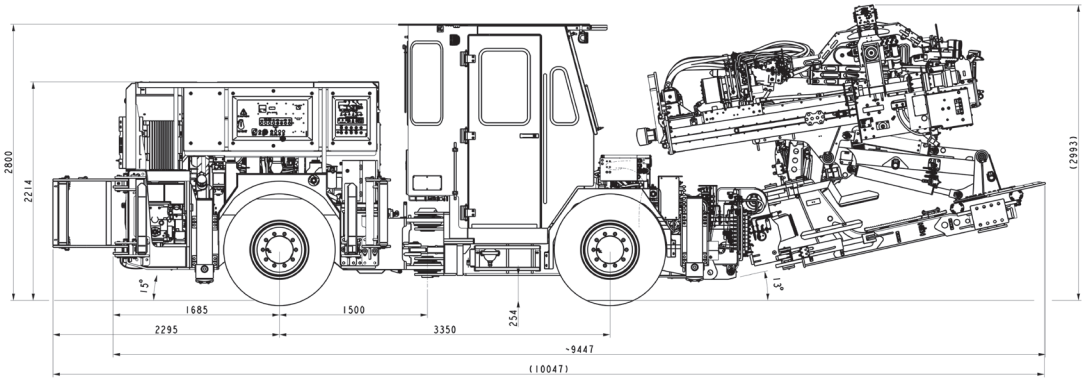
	Metric	U.S.
Compatible Rod, Inner Tube and Barrel Sizes	B, N & H sizes. Unique Presenter Arm rollers for each size ensure the inner tube is not damaged.	
Presenter Arm WLL	164 kg	361 lb
Mast Gripper WLL	164 kg	361 lb

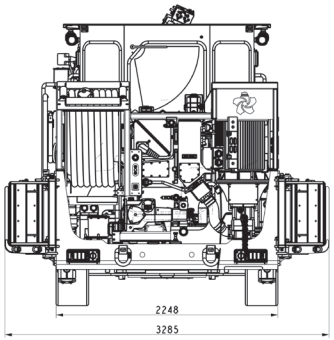
ROD HOLDER

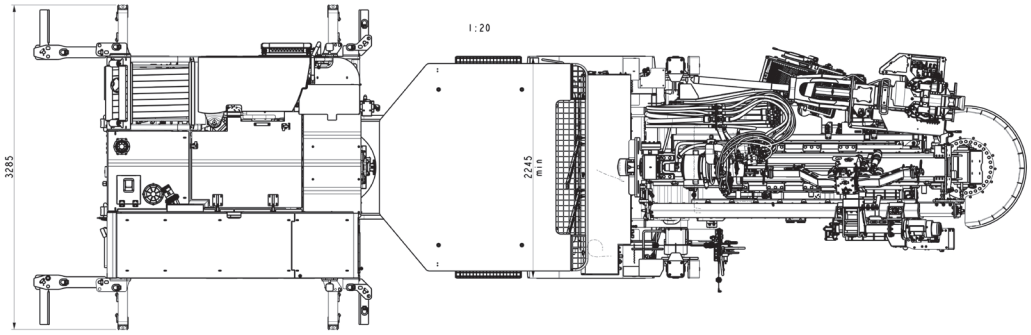
	HQ Rod Holder	PQ Rod Holder - Option
Maximum Opening	97 mm (3.82 in) Diameter corresponding to the ID of the HQ guide bush	125 mm (4.875 in) Diameter corresponding to the ID of the PQ guide bush
Type	Closed mechanically (Spring) Opened hydraulically Automatic synchronization with chuck, including override provision	Closed mechanically (Spring) Opened hydraulically Automatic synchronization with chuck Manual override
Jaws	2 with tungsten carbide inserts	3 (same as used with chuck)
Max. rated axial holding capacity	80 kN* (17985 lbf*)	130 kN* (33750 lbf*)
Max. rated static torsional holding capacity	Forward and reverse rotation 3900 N-m (2870 lbf*)	Forward and reverse rotation 5800 N-m (4255 lbf*)
**With new jaws and rods*		

DIMENSIONS

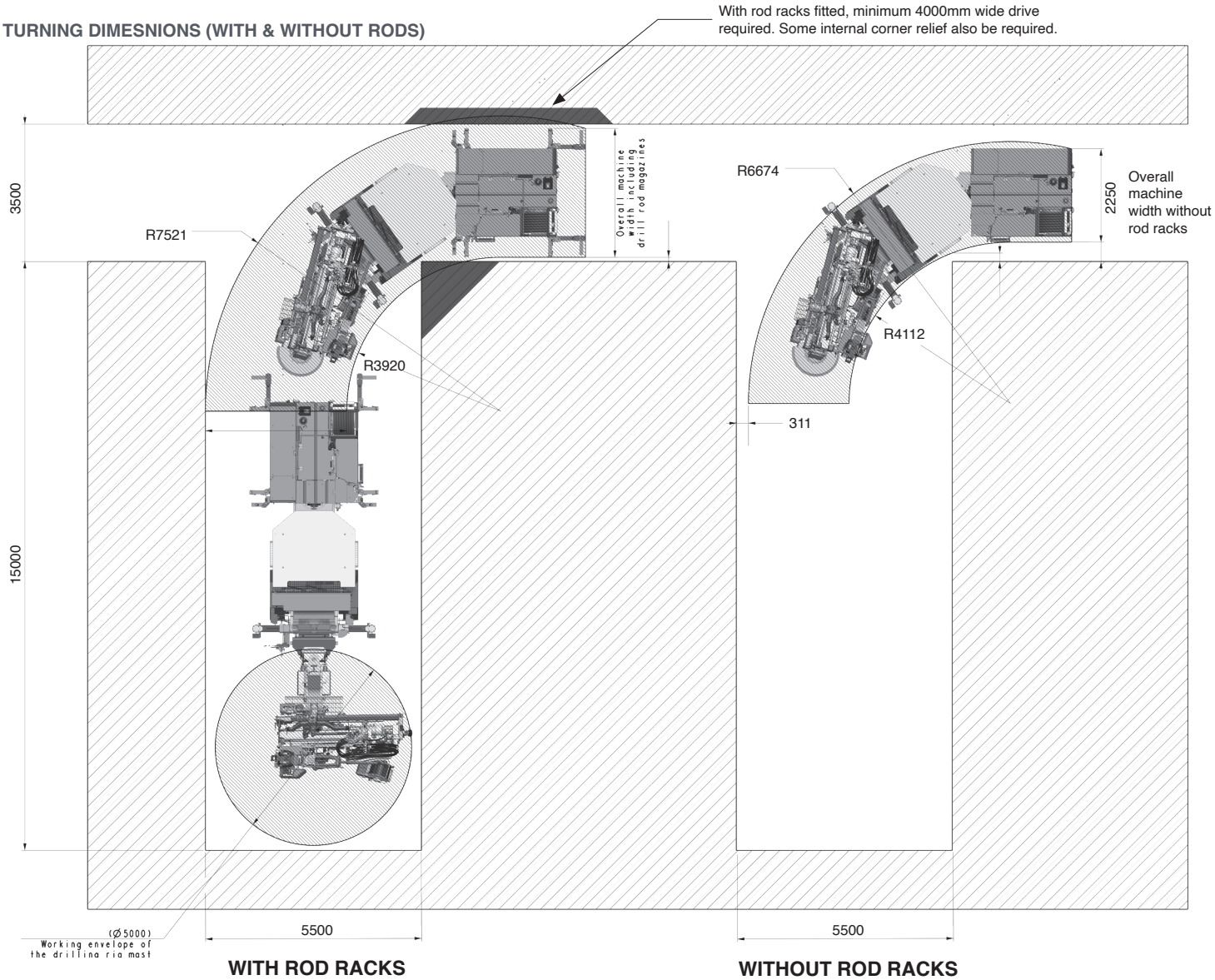
TRANSPORT MODE





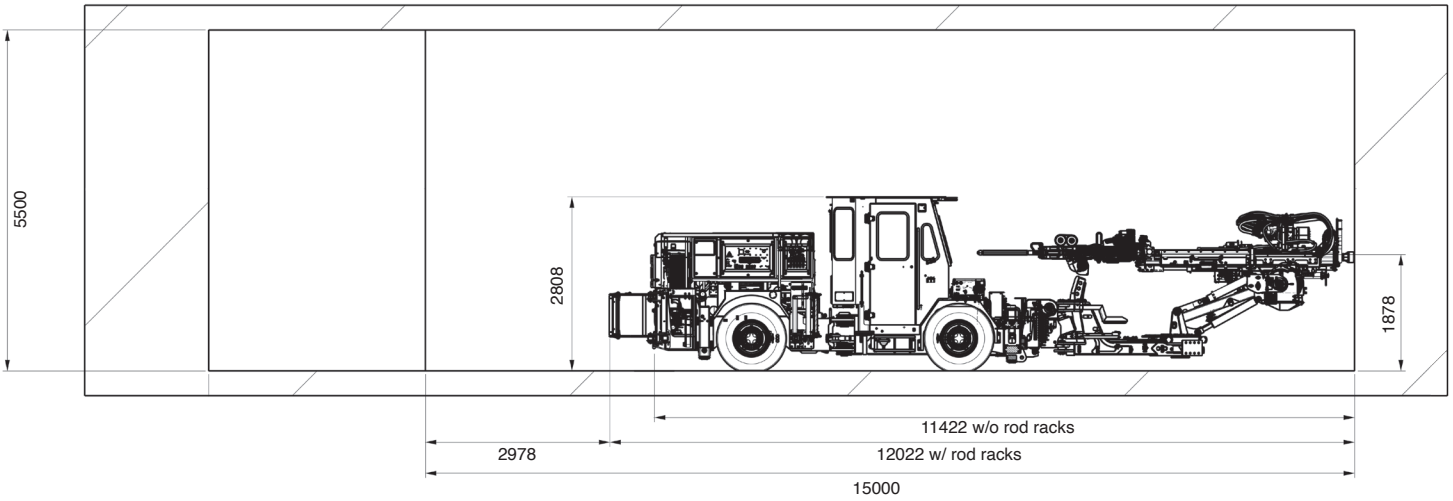


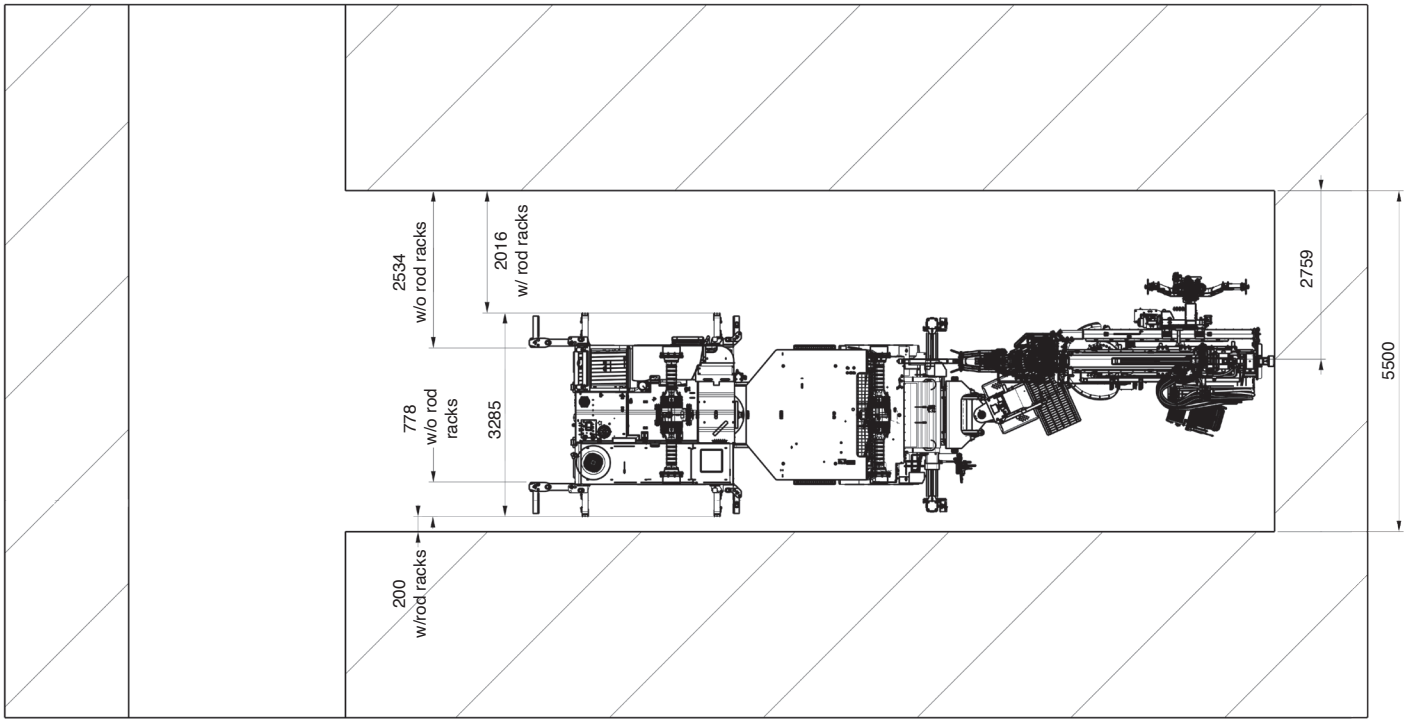
TURNING DIMESNIONS (WITH & WITHOUT RODS)



DIMENSIONS

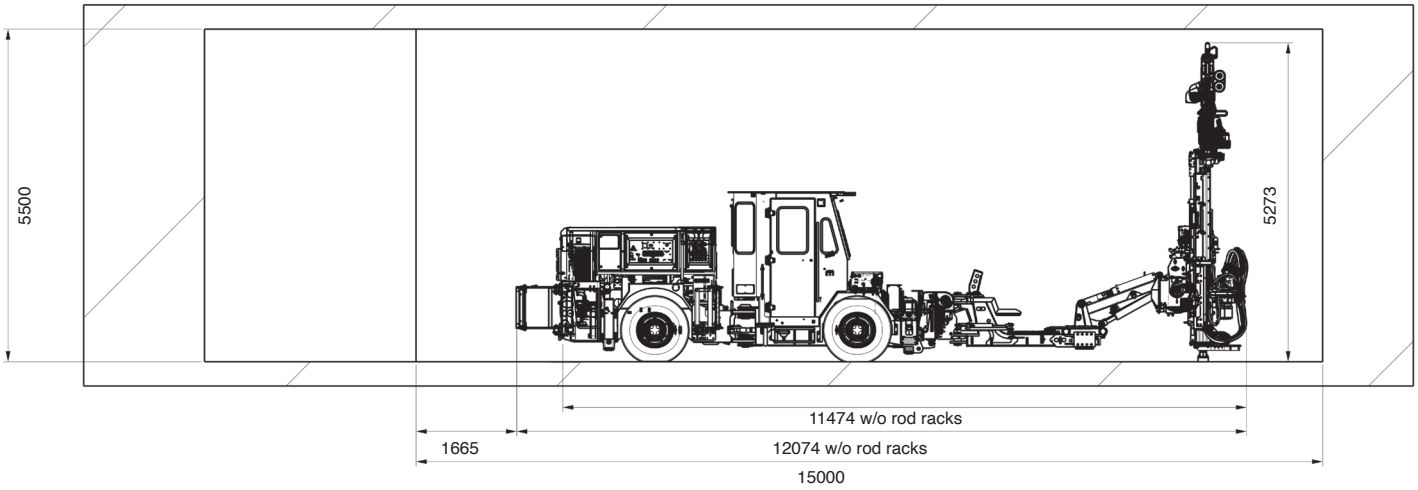
DRILLING TO FRONT HORIZONTAL

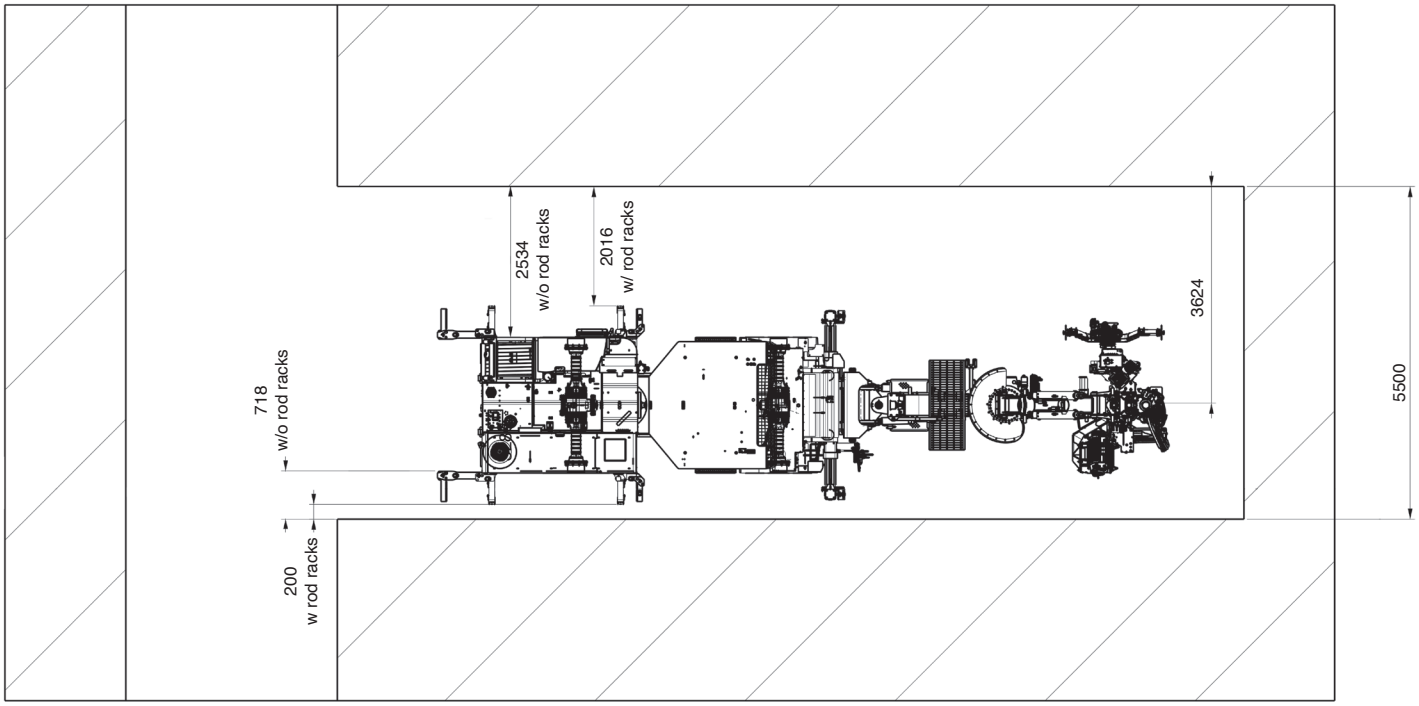




DIMENSIONS

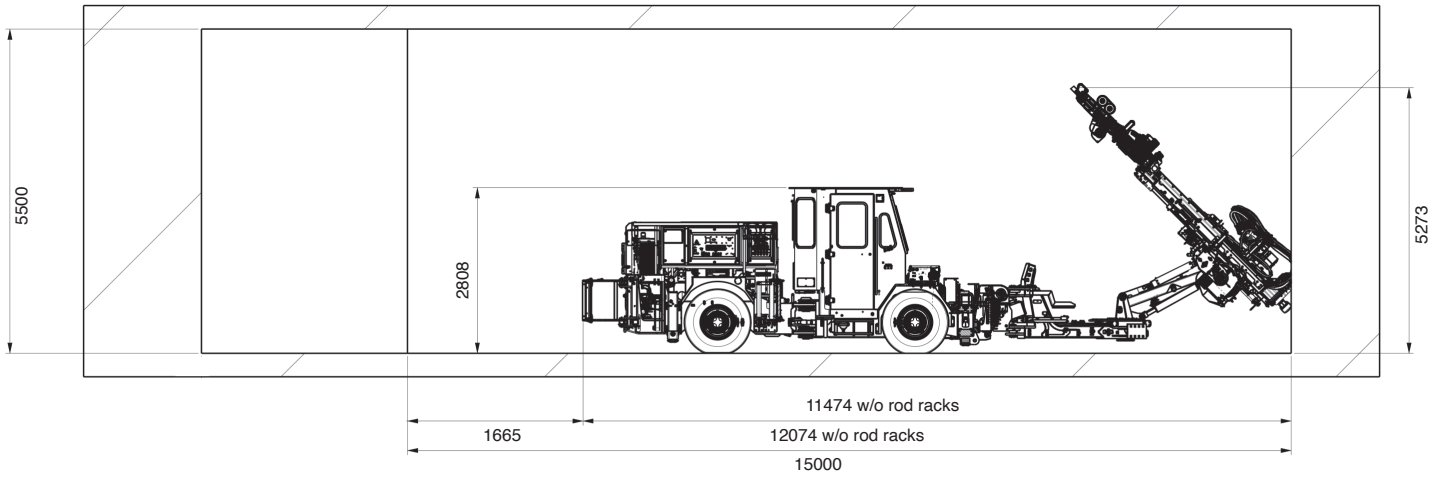
VERTICAL DRILLING

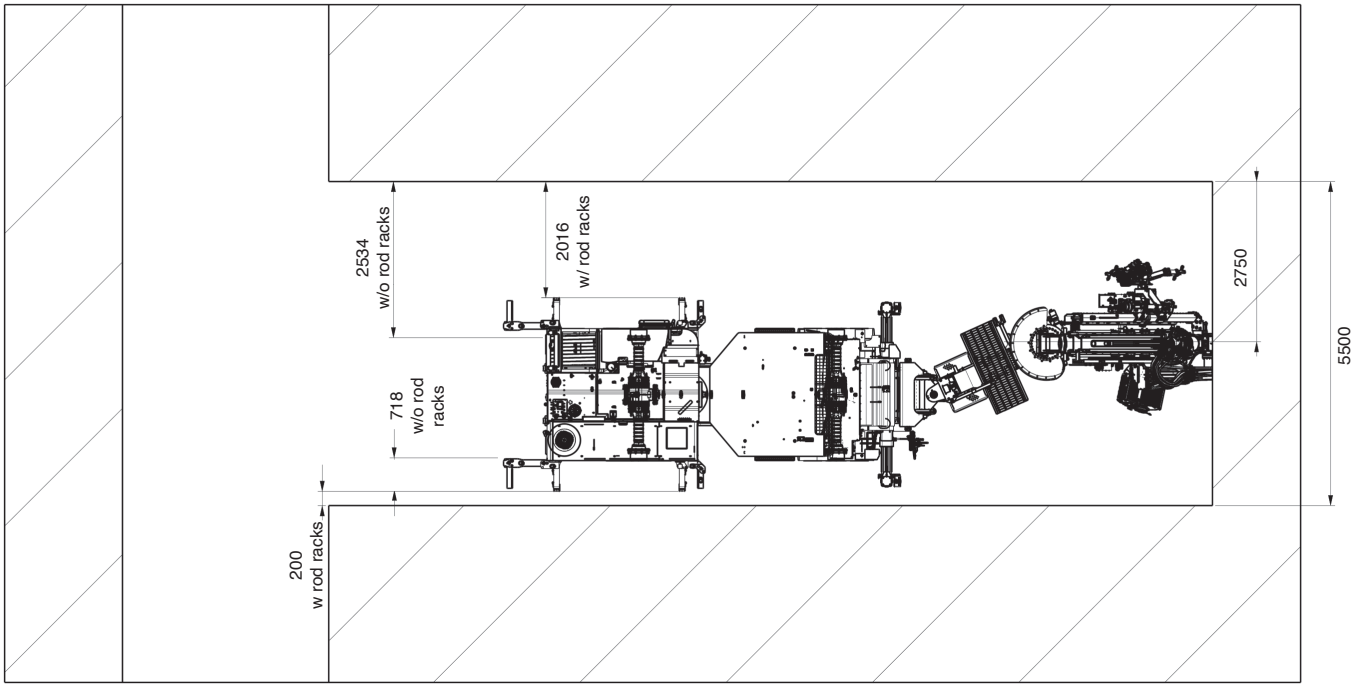




DIMENSIONS

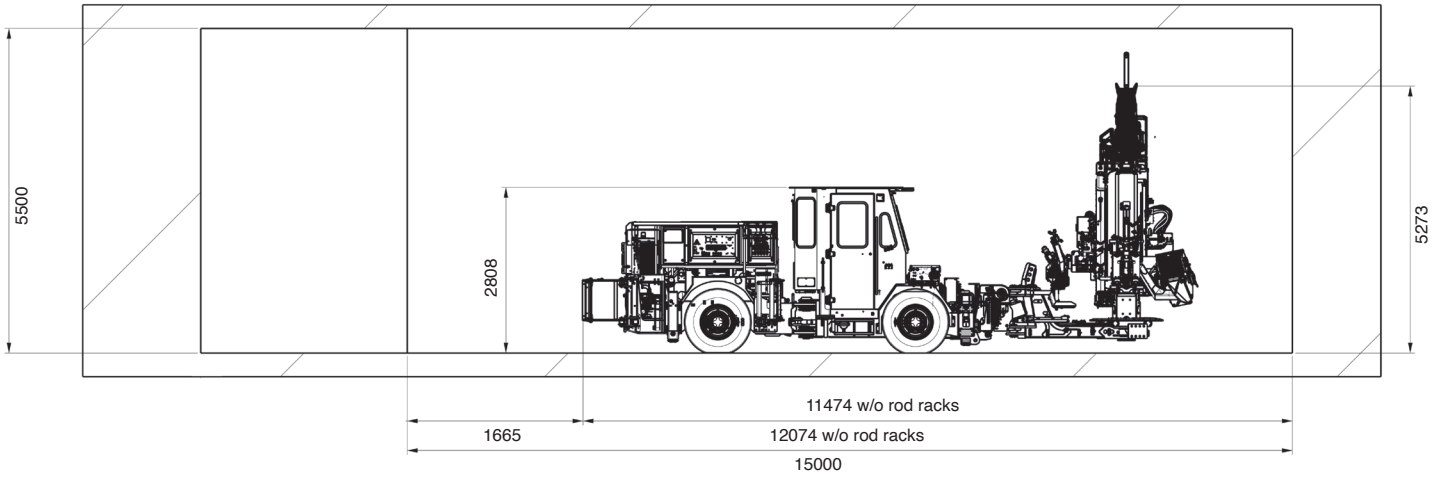
DRILLING TO FRONT 45° DOWN

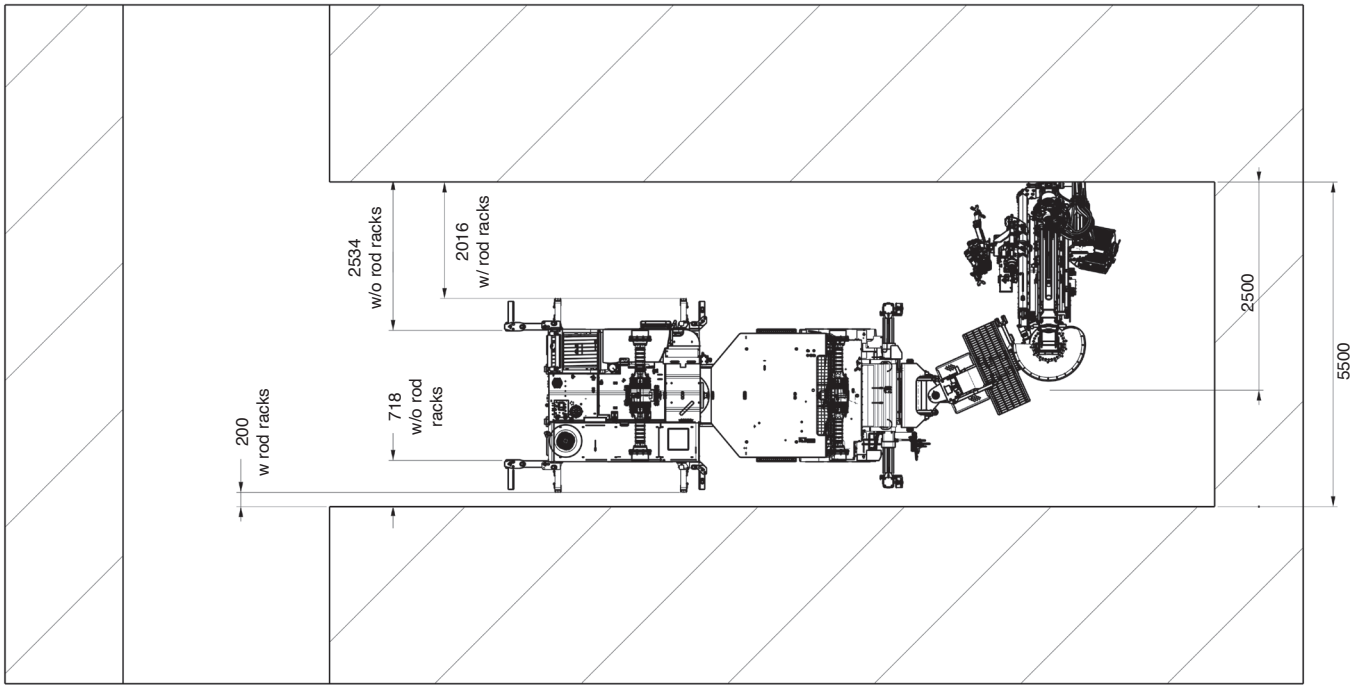




DIMENSIONS

DRILLING TO FRONT 45° DOWN





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