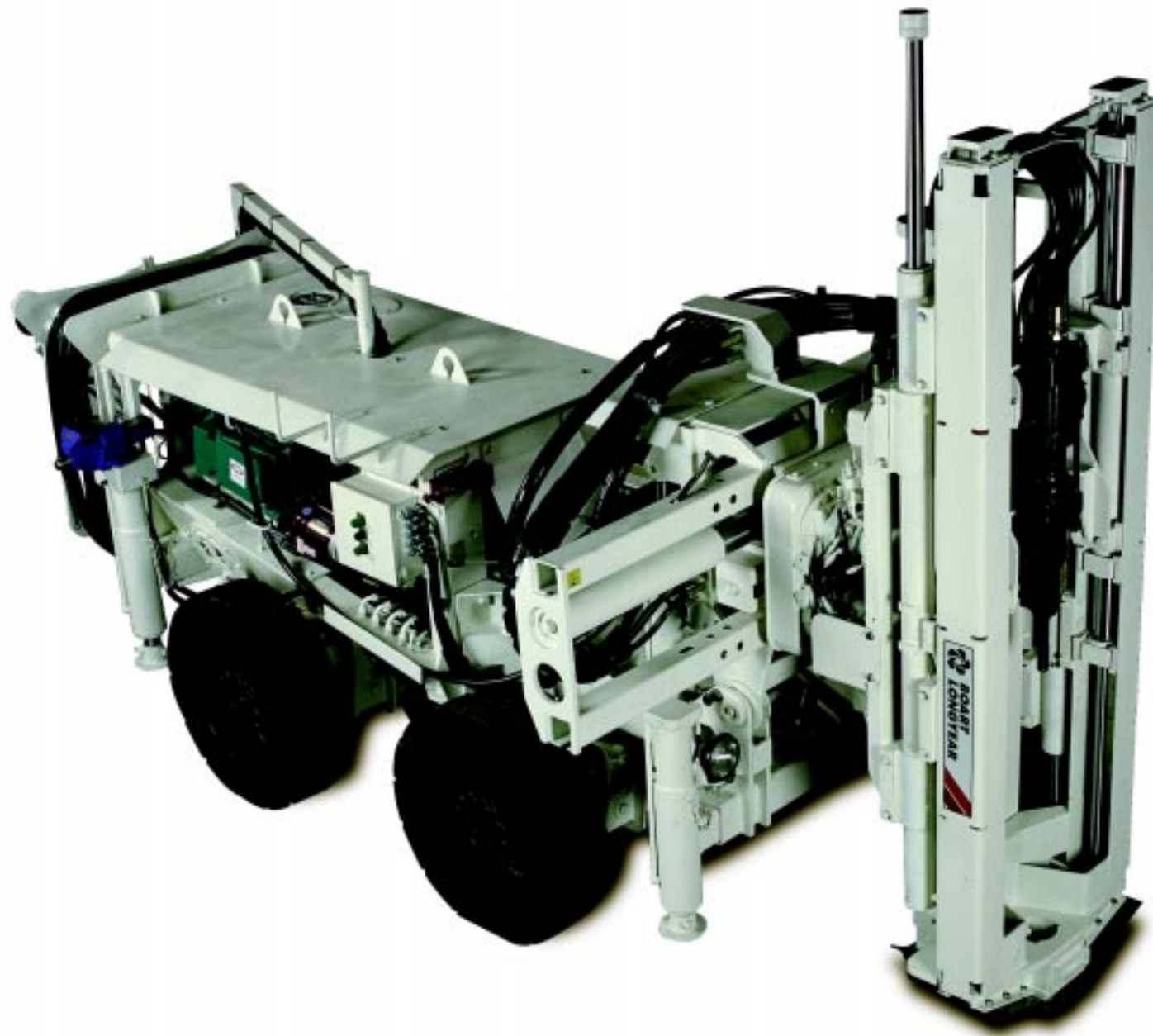


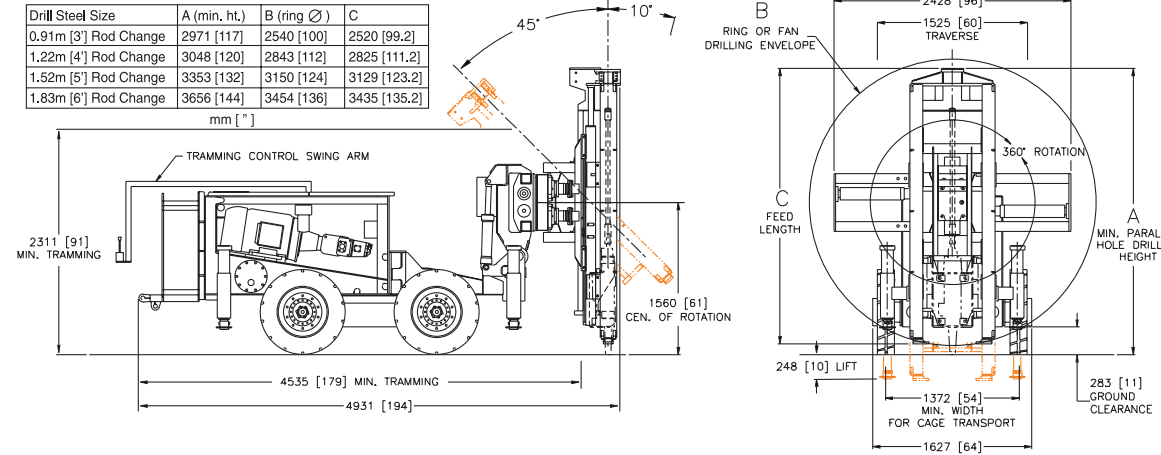
The StopeMaster has been designed to bring maximum benefits in a compact package:

- compact modular design
- very mobile
- flexible drill applications
- easy to use
- easy to service
- dependable, proven technology
- backed by millions of feet of real-world drilling experience

Designed to Meet the Needs of the Driller



StopeMaster



HYDRAULIC POWERPACK

- 45 kW (60 HP) high efficiency electric motor
- tandem pressure compensated piston pump
- high pressure oil filter (8 micron)
- return oil filter (9 micron)
- sealed reservoir - 208 litres (55 gallons)
- auxiliary reservoir - 85 litres (22 gallons)
- electric oil transfer system (filtered)
- NEMA 4 electrical panel
- 3.5 kW (5 HP) water booster pump
- oil lubricator - 9 litres (2 gallon)
- thermostatically controlled 40 kW (54 HP) water cooled oil cooler
- system condition indicator flags
- 45m (150') electric trailing cable

CARRIER

- 4 wheel skid steer
- gradeability- 30%
- 4 wheel independent drive & braking (SAHR) system
- solid rubber tires on steel rims
- motion control valving for precise control, even over rough terrain
- quick disconnect brakes for easy towing

STABILIZERS

- four hydraulic cylinders
- 0.51m (20") stroke providing 0.25m (10") lift

DRILL POSITIONER

- dump**
 - dual hydraulic cylinders c/w lock valves
 - expansion type pins
- traverse**
 - 1.5m (60") side to side movement *
 - adjustable pads to compensate for wear
 - movement via dual telescopic cylinders
- rotation**
 - dual motor/planetary drive system
 - dual SAHR holding system
 - heavy duty rotation bearing
- feed crowd**
 - 0.74m (29") independent feed crowd
 - hydraulic cylinder driven

ROCKDRILL FEED

- 9000DA series feed assembly
- dual direct acting in line hydraulic cylinders
- heavy duty steel frame
- replaceable wear pads
- rear stell cylinder

CONTROLS

- modular designed components
- direct acting feed positioning controls *
- umbilical remote for all drilling functions
- pivoting tramping control arm

* (see options available)

LIGHTS

- 24vdc sealed beam tramping lights (front & rear)
- single 500 watt halogen drilling light (tripod mounted)

ROCKDRILL

- HD150 rockdrill*
 - 11.2 kW percussive energy
 - 45-62 Hz percussive frequency
 - 490 Nm (360 ftlbs) rotation torque max

OPTIONS

- traverse widths 0.9m, 1.2m, 1.83m (36", 48", 72")
- radio remote feed positioning control
- HD160 rockdrill
 - 12.4 kW percussive energy
 - 38-44 Hz percussive frequency
 - 490 Nm (360 ftlbs) rotation torque max
- HD165 rockdrill
 - 15 kW percussive energy
 - Variable percussive frequency
 - 1329 Nm (975 ftlbs) rotation torque max
- Voltage to suit location
- 4 nozzle fire suppression system
- 9 kg (22 lbs) portable fire extinguisher
- ground fault monitor sub panel
- laser hole alignment system
- umbilical remote feed positioning control
- on board hydraulic oil cleaning system
- ITH conversion package
- electronic parts manuals (CatBase®)
- Requires powerpack upgrade to 56 kW (75 HP)

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Company policy is one of continual development and any specifications contained in this literature may change without notice. Actual equipment may not be exactly as shown.



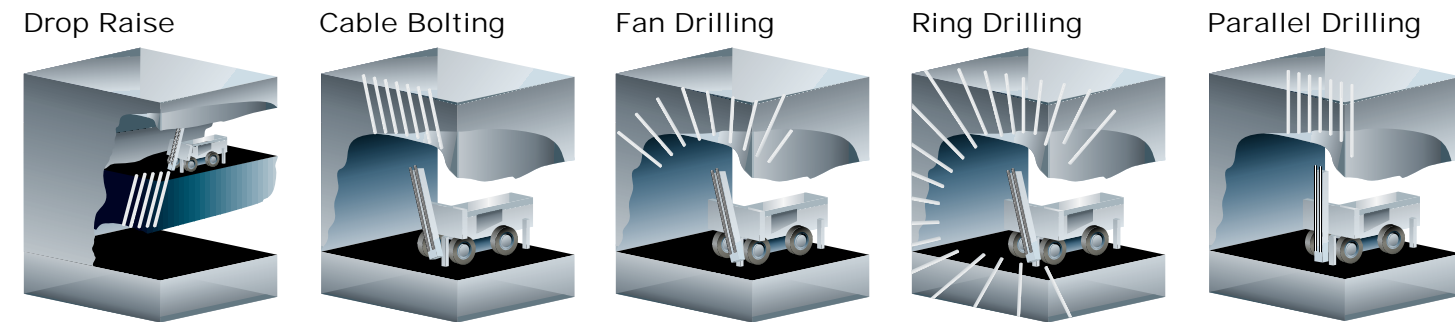
Boart Longyear Drilling System
StopeMaster Series Production Drill



StopeMaster

Proven Technology and Exceptional Value

Drilling Versatility

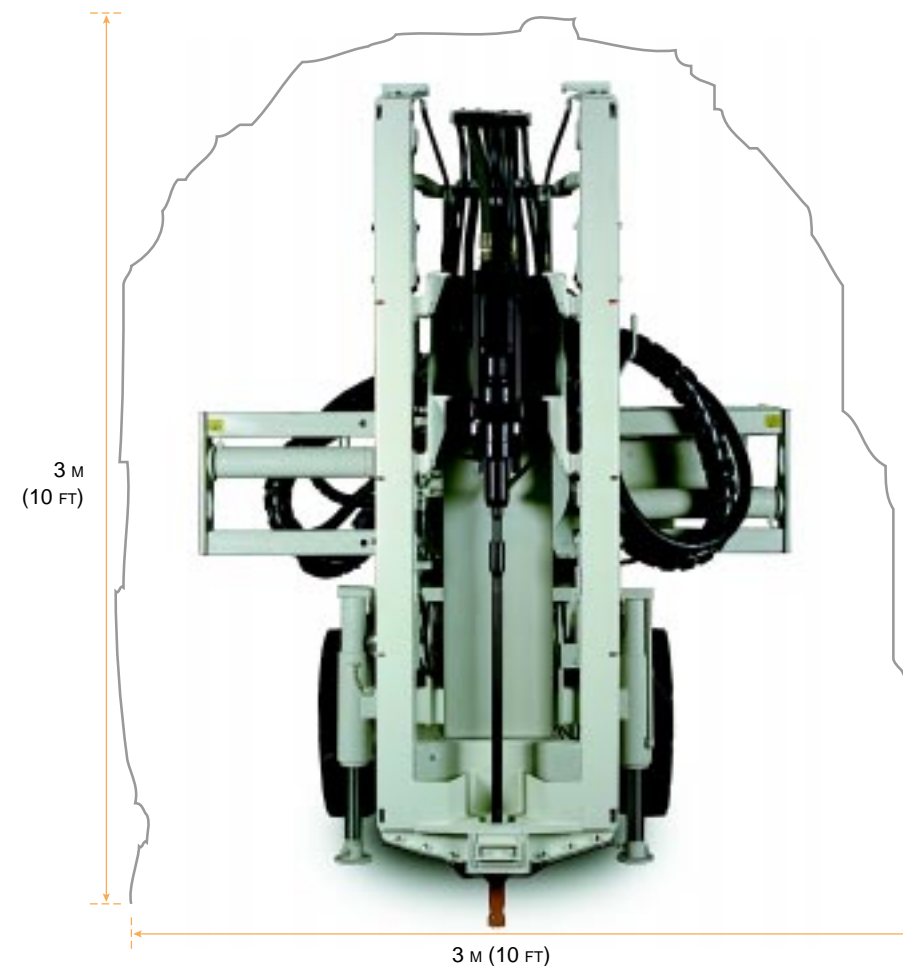


An enhancement of the proven R322 longhole drill, the StopeMaster continues Boart Longyear's drive for continuous improvement. Along with low capital investment, the StopeMaster delivers increased productivity and decreased maintenance costs.

The new StopeMaster achieves:

- excellent deep hole accuracy, through superior guidance of the durable feed system and Hercules™ centralizer
- consistent, high performance regardless of varying operator skill levels or conditions
- increased availability since routine maintenance can be done at the face, by operators without specialized training
- longer intervals between scheduled preventative maintenance servicing, proven through millions of feet of drilling experience

Compact Design For Those Tight Situations



The Benefits of a Proven Drill Platform

Compact Enough to Get Into the Tightest Drill Situations

- Cageable flexibility.
- Level-to-level mobility.
- Stope-to-stope versatility.
- Optimum manoeuvrability.
- Proven reliability.

Engineered Hose Routing

- Less downtime from hose and fitting failures.
- Increased safety and reduced opportunity to snag hoses.

Drilling Accuracy

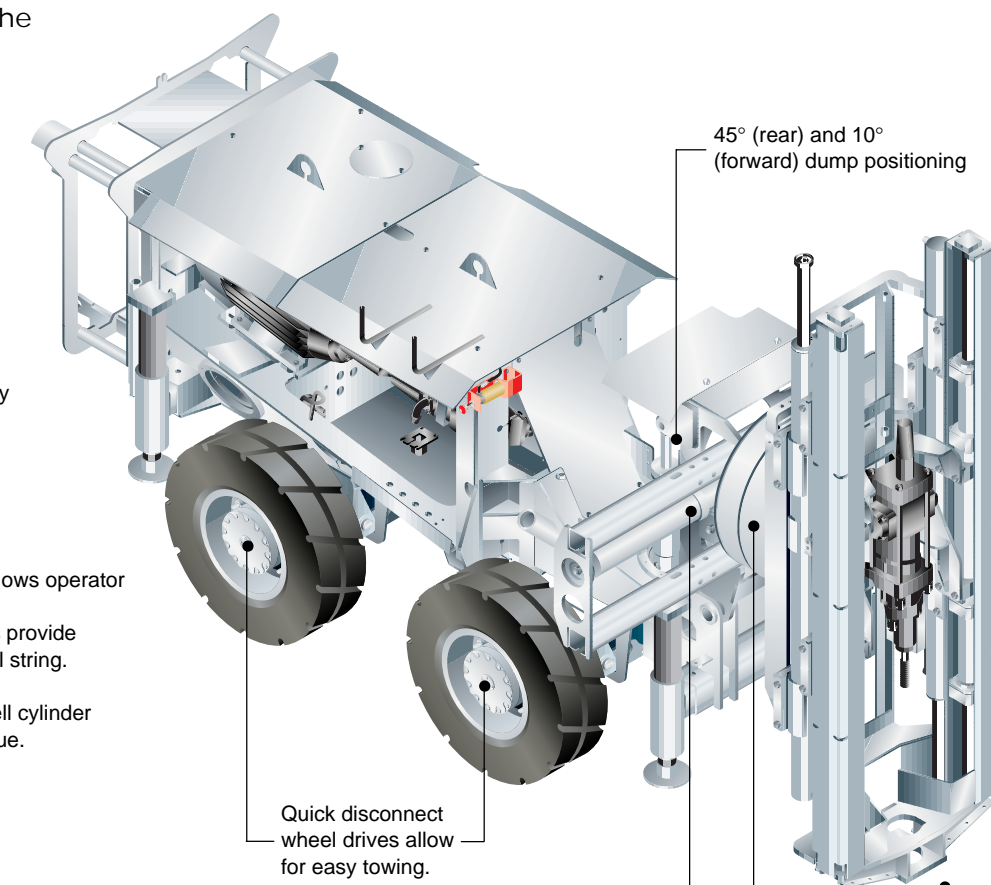
- 4 levelling jacks for stability.
- 230° trammig control arm movement allows operator to position drill accurately and safely.
- The dual 'in-line' hydraulic feed cylinders provide a balanced thrust to the centre of the drill string.
- Patented Hercules™ centralizer.
- Robust positioner assembly and feed steel cylinder ensure feed assembly is held firm and true.

Hercules™ Rod Mate Centralizer

The Boart Longyear Hercules™ Centralizer is a new design concept in centralizers. With very few parts, positive centring and low cost, the robust Hercules™ is less complicated, more durable and harder working.

Benefits of the Hercules™ Centralizer

- Cassette type centralizer for quick changes.
- Withstands torsional loading.
- Withstands axial loading from percussion, feed force and total drill string weight.
- Positively centres the drill output shaft during coupling and collaring functions.
- Low maintenance because there are no pins or bushings (only 12 parts).

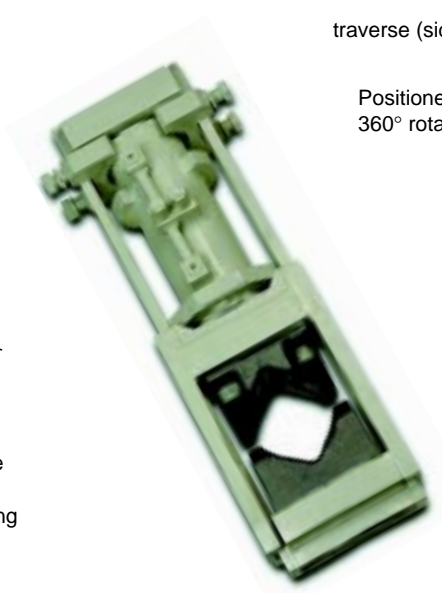


45° (rear) and 10° (forward) dump positioning

Quick disconnect wheel drives allow for easy towing.

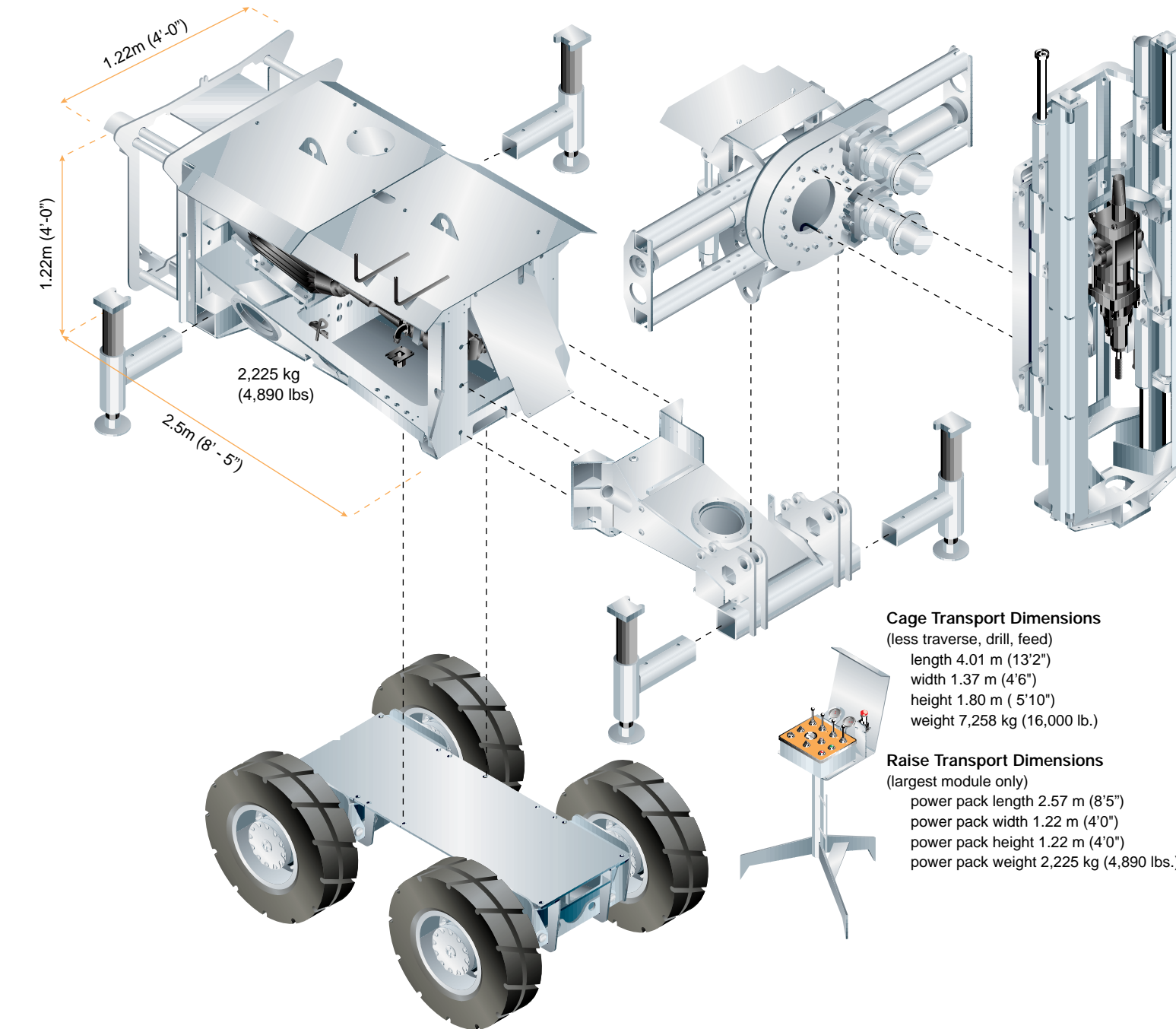
traverse (side-to-side)

Positioner is capable of 360° rotation.



The Benefits Of Modular Design

- Designed for efficient dismantling and reassembly, the StopeMaster can be transported rapidly, even into captive areas, decreasing move time and increasing productivity



1.22m (4'-0")

1.22m (4'-0")

2,225 kg (4,890 lbs)

2.5m (8'-5")

Cage Transport Dimensions
(less traverse, drill, feed)
length 4.01 m (13'2")
width 1.37 m (4'6")
height 1.80 m (5'10")
weight 7,258 kg (16,000 lb.)

Raise Transport Dimensions
(largest module only)
power pack length 2.57 m (8'5")
power pack width 1.22 m (4'0")
power pack height 1.22 m (4'0")
power pack weight 2,225 kg (4,890 lbs.)

9000 DA Feed

Greatly increased component life is achieved with direct action, dual feed cylinders that transmit full force to the drill string centre line. With this system, vibration effects are negligible, and friction forces are reduced by as much as 95%. Well suited for both top hammer and ITH drilling.

No maintenance, greasing or adjustments are required because there are no bearings, bushings, pins, cables or chains.