GETMAN

PROCHARGE MAXX 4000

INTEGRATED EMULSION | EXPLOSIVES CHARGER

PURPOSE-BUILT MINING EQUIPMENT



GETMAN EXPLOSIVE CHARGERS are versatile machines designed to work in development and production charging. They can be configured for either ANFO charging or emulsion charging.

Getman's ProCharge MAXX 4000 Integrated Emulsion System is designed to perform explosives charging functions with a single operator. Configured face coverages reduce cycle times by ensuring each section can be charged without repositioning the machine. Maximum capacity per model designed to accept explosives supplier pump and control system.

Available with optional hose handling system, including hose reel, hose pusher, and hose guides and includes engine driven air compressor with air receiver for loading hose clean out.

Getman Explosive Chargers protect miner safety through purpose-built design, including counterbalance valves on the lifting arm to prevent uncontrolled descent, fall arrest tie-off points in the man basket, optional FOPS canopy, engine stop and fire suppression actuation controls in the man basket, and hydraulic stabilizers with internal pilot check valves to ensure stability.

TECHNICAL SPECIFICATIONS

ENGINE
- Stage V/ T4F Approved Cummins B 4.5 - 129kW (173 hp)
- Tier III approved engine (4 cylinder)
  - › Cummins QSB4.5, 127kW (170hp)
- Liquid-cooled, turbocharged
- 113 L (30 gal) fuel tank with self-closing cap
- Manually activated Ansul LVS FSS, tied to engine shutdown

EXHAUST SYSTEM
- Exhaust after-treatment

TRANSMISSION
- Powershift transmission
- Three speeds forward and reverse
- 4-wheel drive

AXLES
- Planetary drive axles
  - › Kessler S41 axle package
  - › Kessler S72 axle package on select configurations

TIRES
- Mine service tires
  - › 10.00x20
  - › 12.00x20 on select configurations

BRAKE SYSTEM
- Service brakes are spring-applied, hydraulic-released, liquid-cooled multi-disc brakes on all wheels.
- Automatic brake application (ABA) occurs upon fire suppression activation or loss of hydraulic accumulator pressure, transmission pressure or electrical power

STEERING
- Articulated frame steering
- Heavy-duty, self-aligning bearings inside replaceable inserts
- Two double-acting steer cylinders with replaceable bushings in cylinder and frame ears

HYDRAULIC SYSTEM
- Hot side/cold side engine layout
- Hydraulic hoses routed to cold side of engine
- Open or closed center hydraulic circuits
- Diagnostic test ports with quick couple fittings for: each axle, service and park brake pressure, and hydraulic pumps
- 10-micron return filter
- 151 L (40 gal) hydraulic reservoir
- 250 L (66 gal) hydraulic reservoir on select configurations

OPERATOR COMPARTMENT
- Three-point contact for entry and exit
- ROPS/FOPS certified canopy
  - › Open cabin
  - › Enclosed cabin with HVAC
- Operator + passenger seating
- Mechanical suspension operator seat
- Retractable lap seat belts

INSTRUMENTATION
- Engine coolant temperature
- Voltmeter
- Hour Meter
- Tachometer
- Transmission charge pressure
- Transmission oil temperature
- Brake accumulator pressure gauge
- Brake accumulator low-pressure warning
- Park brake applied indicator light
- Audio/visual alert for high engine temperature
- Visual alert for low engine oil pressure
- Transmission hours
- Transmission neutralizer
- Audio/visual alert for low hydraulic tank level
- Visual alert Engine ECM

ELECTRICAL SYSTEM
- 24 V electrical system
- Lockable master switch (isolator)
- Maintenance-free batteries
- LED lighting package (IP69K rated)
- Sealed connectors
- Braided outer jacket harness protection

OTHER GENERAL EQUIPMENT
- Variable audio backup alarm (87-112dBA)
- 2.3 kg (5 lb) fire extinguisher on engine end
- Two 4.5 kg (10 lb) fire extinguishers on rear frame
- Wheel chocks
- Manual lubrication system

OPTIONAL EQUIPMENT UPGRADES
- Wiggins fill system
- Central lubrication system or
- Auto-lubrication package
  - › Ansul Checkfire automatic actuation fire suppression system with linear detection loop
- Door and/or seat belt interlocks
- Side Entry Cabin
- High pressure filter package

SE (SIDE ENTRY) UPGRADE
- 2-door, side entry, cabin
- Optional enclosed pressurized cab with cabin filter
- Forward & side facing swivel driver seat with armrests, mechanical suspension
- Two sets of pedals
- Joystick steering control
- Distributed Control electrical system
- Enhanced interactive display with a large-format screen
- Vehicle performance monitoring with on-screen gauges and diagnostics

*Some optional equipment not available on all models

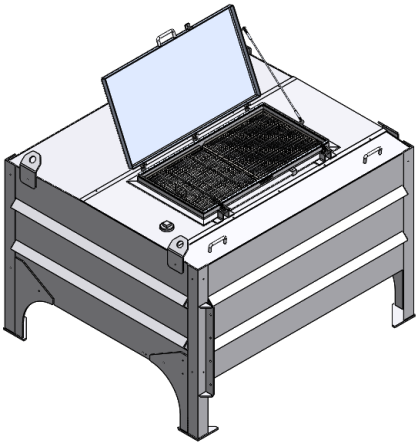
EXPLOSIVES CHARGING SYSTEM

- Grounding reel with heavy-duty clamp
- Laminated cap or booster storage compartments
- Engine driven air compressor and 20-Gal (75L) air receiver included
- Gear or Load-sense pump options available and installed to match emulsion pump suppliers requirements
- 12 V Standard (24 V optional) output for connection of third-party control system
- Hydraulic system installed to run emulsion process delivery system
- Water pump, gasser (Chem-adds) pump & tanks included
- Getman Hose Handling System available as option

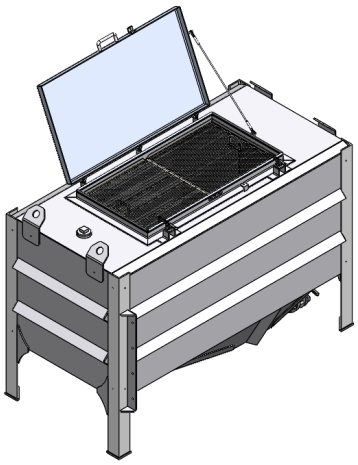
GETMAN EMULSION TANKS

- Aluminum construction
- Hopper bottom
- Top or bottom fill ports with screen inlets
- 4" (100mm) discharge to emulsion pump
- 3" (75mm) auxiliary discharge to empty tank
- Large access lid with screen with clamp down and lockable

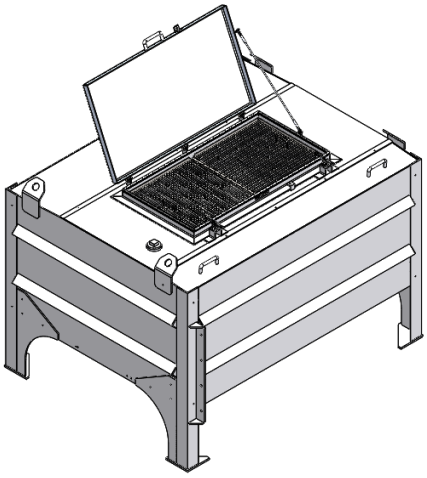
4450L Emulsion Tank Capacity



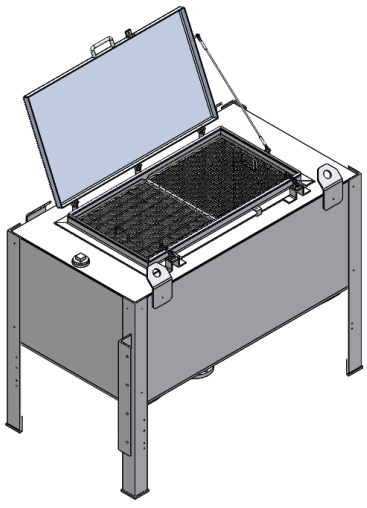
2250L Emulsion Tank Capacity



3620L Emulsion Tank Capacity



1600L Emulsion Tank Capacity



BOOM LIFT PACKAGE*

BOOM
- Telescopic boom with 3404 mm (134 in) hydraulic extension
- Counterbalance valves
- Face coverage based on 2134 mm (7 ft) man reach
- Dual boom and basket controls mounted at the fender and in man basket

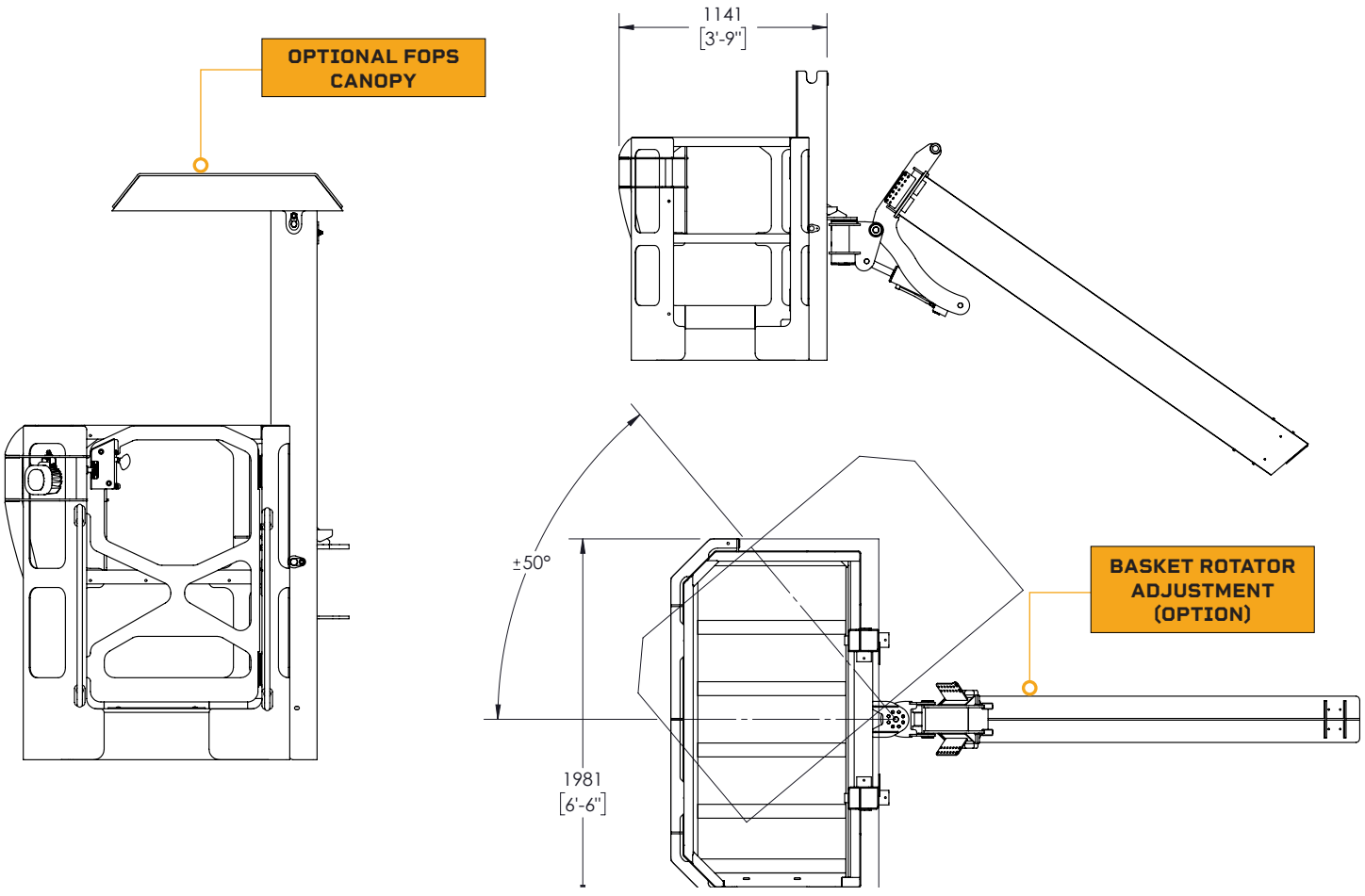
BASKET
- Self-leveling man basket
- Non-skid deck
- Fall arrest tie-offs
- Engine start and engine stop in man basket
- Fire suppression actuator in man basket

STABILITY
- Four 610 mm (24 in) hydraulic stabilizers with internal pilot check valves

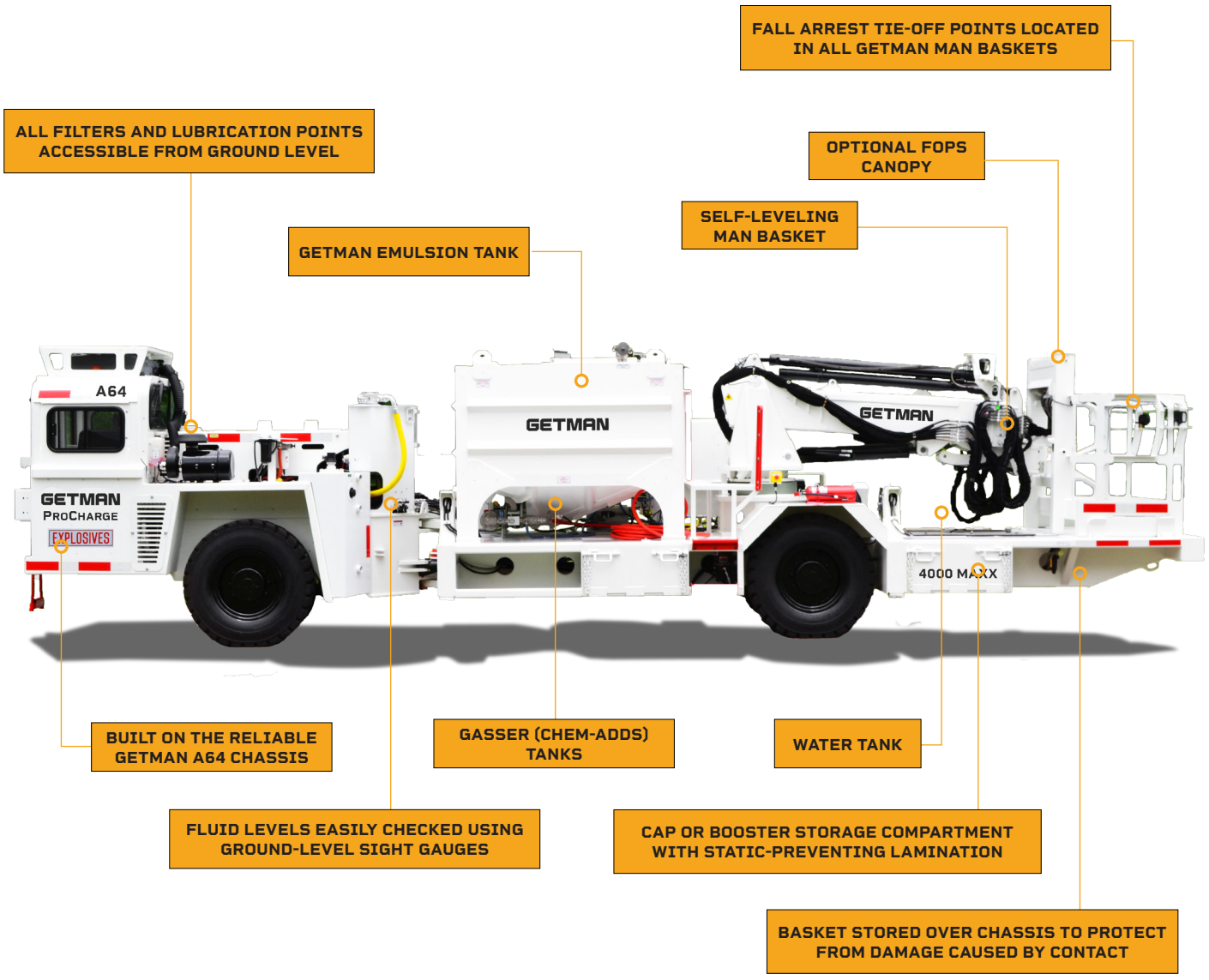
TELESCOPIC BOOM - ADDITIONAL OPTIONS
- Emergency boom lowering package (electric powered hydraulic)
- FOPS Canopy

BOOM LIFT PACKAGES
- 1200 LB Package
  - › Slewing Rotation - 80°
  - › Maximum Basket Capacity - 544 kg*
  - › Maximum Boom Coverage - 8.7m x 9m
- 700 LB Package
  - › Slewing Rotation - 110°
  - › Maximum Basket Capacity - 318 kg*
  - › Maximum Boom Coverage - 11.8m x 9m
  - › Basket Rotator ± 50°

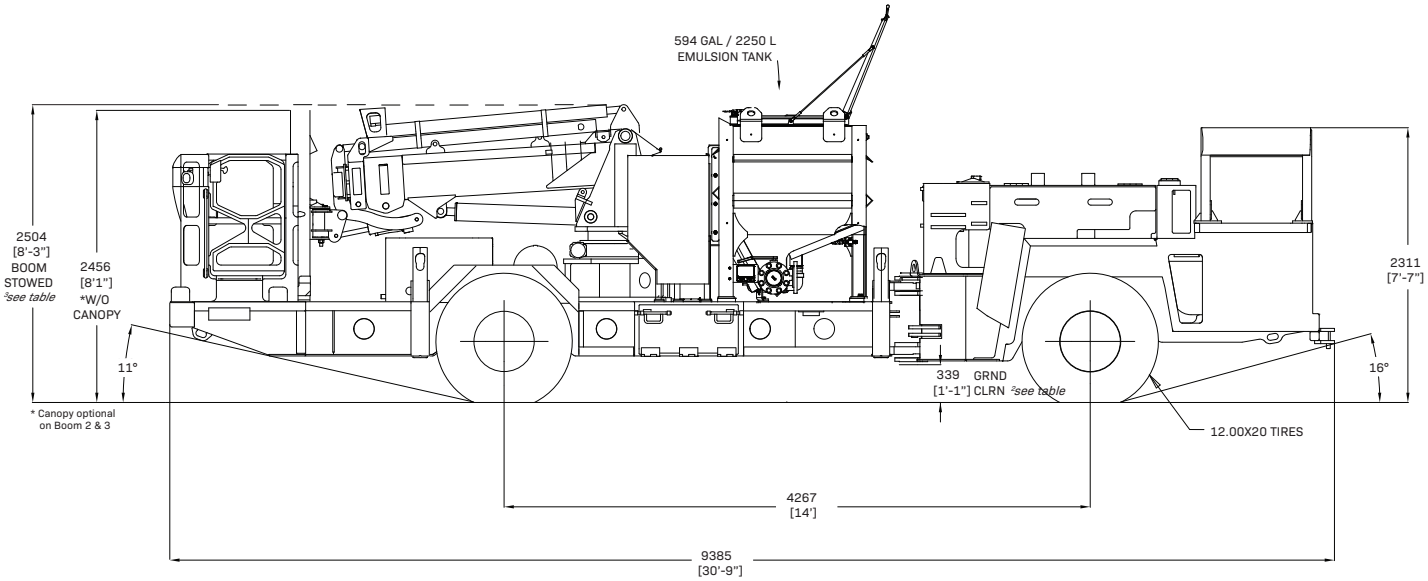
*Basket Capacity decreases 91 kg with Canopy option



DESIGN FEATURES AND LAYOUT

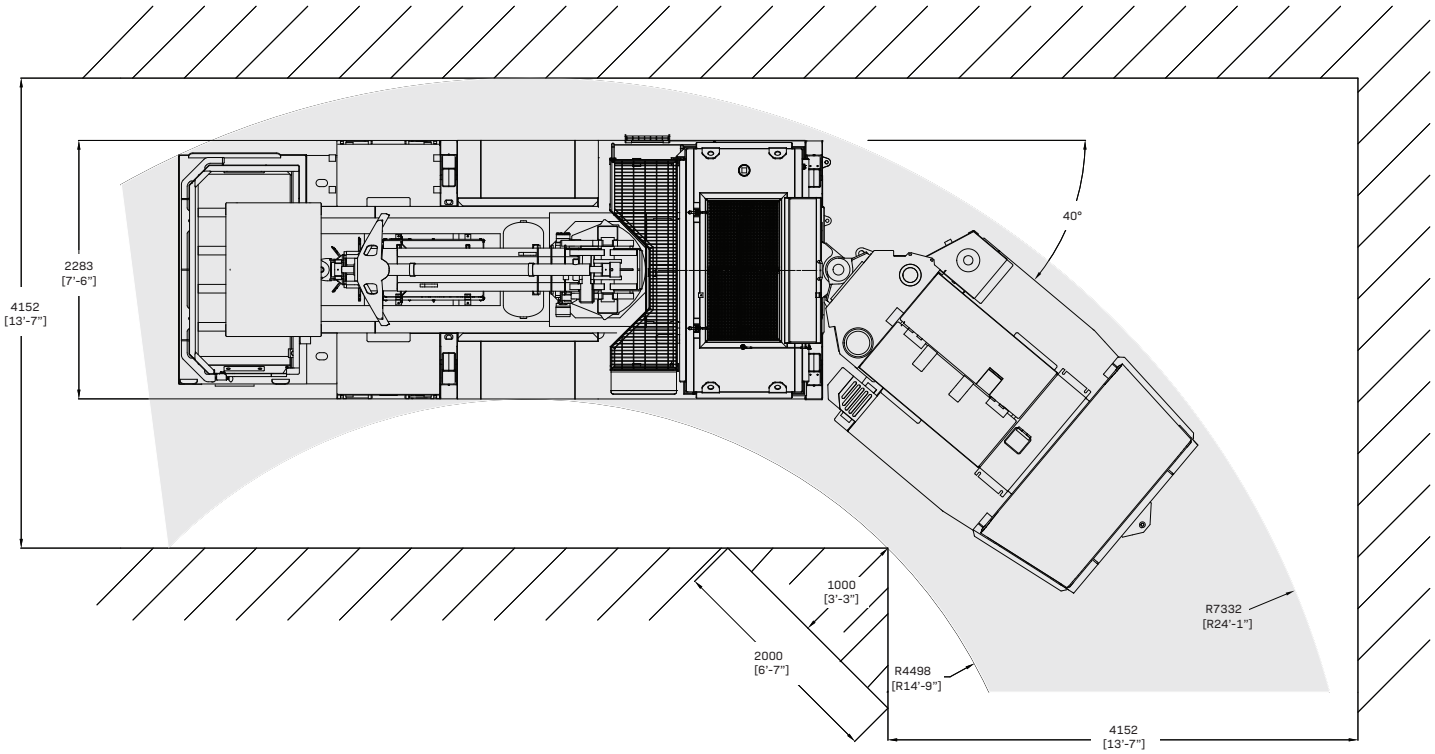


DIMENSIONS AND MANEUVERABILITY - 1600L/2250L CAPACITIES



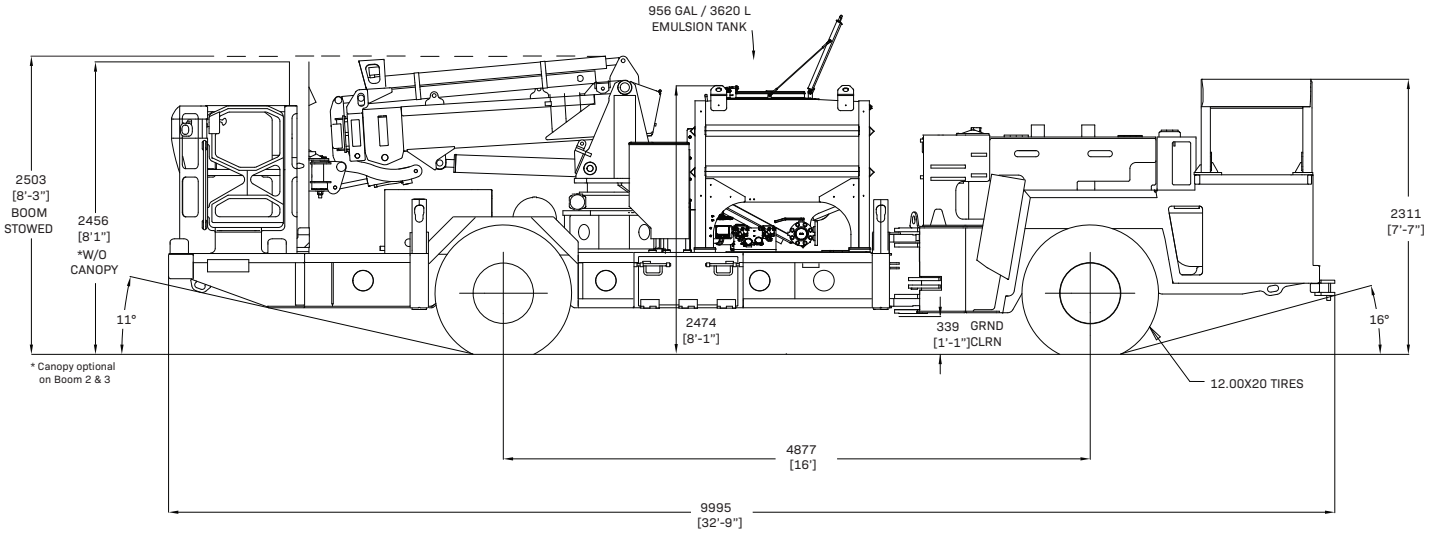
MACHINE LENGTH	9385 mm	369 in
WHEELBASE LENGTH	4267 mm	168 in
GROUND CLEARANCE (Kessler 41 / 10.00X20)	311 mm	12 in
GROUND CLEARANCE[2] (Kessler 72 / 12.00 x 20)	339 mm	13 in
EMULSION TANK HEIGHT 1600L (Kessler 41 / 10.00X20)	2379 mm	94 in
EMULSION TANK HEIGHT[1] (Kessler 72 / 12.00 x 20)	2474 mm	97 in
MACHINE HEIGHT (Kessler 41 / 10.00X20)	2464 mm	97 in
MACHINE HEIGHT[3] (Kessler 72 / 12.00X20)	2478 mm	99 in
EMULSION CAPACITY (Kessler 41 / 10.00X20)	1600L	
EMULSION CAPACITY (Kessler 72 / 12.00X20)	2250L	

DIMENSIONS AND MANEUVERABILITY - 1600L/2250L CAPACITIES



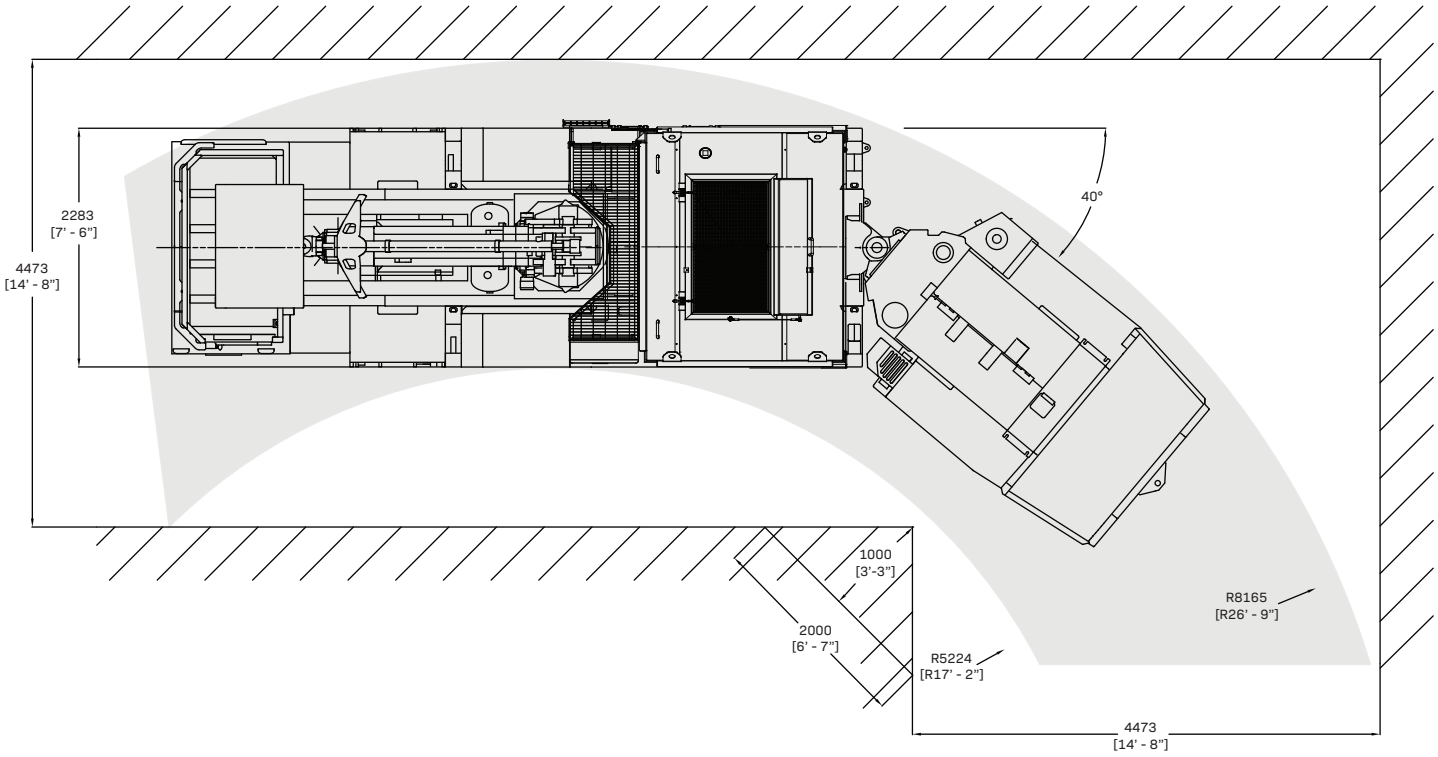
MACHINE WIDTH	2283 mm	90 in
INNER TURNING RADIUS	4498 mm	177 in
OUTER TURNING RADIUS	7332 mm	289 in

DIMENSIONS AND MANEUVERABILITY - 3620L CAPACITY



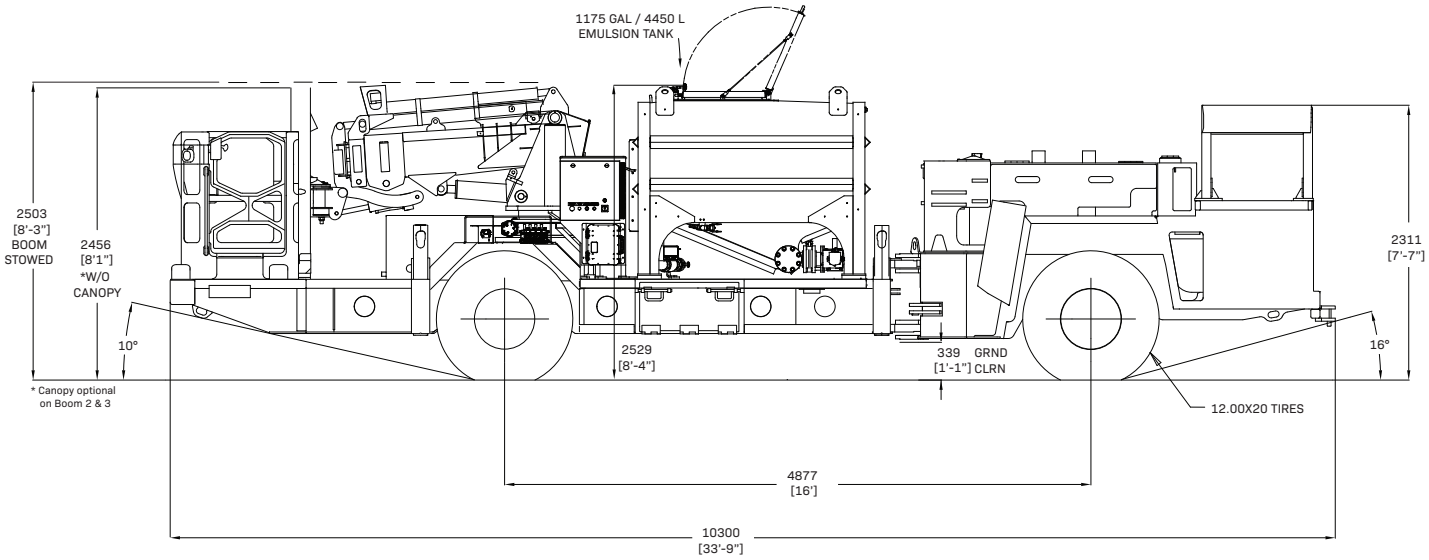
MACHINE LENGTH	9995 mm	393 in
WHEELBASE LENGTH	4877 mm	192 in
GROUND CLEARANCE	339 mm	13 in
EMULSION TANK HEIGHT	2474 mm	97 in
MACHINE HEIGHT (Boom)	2503 mm	99 in
EMULSION CAPACITY (Kessler 72 / 12.00X20)	3620L	

DIMENSIONS AND MANEUVERABILITY - 3620L CAPACITY



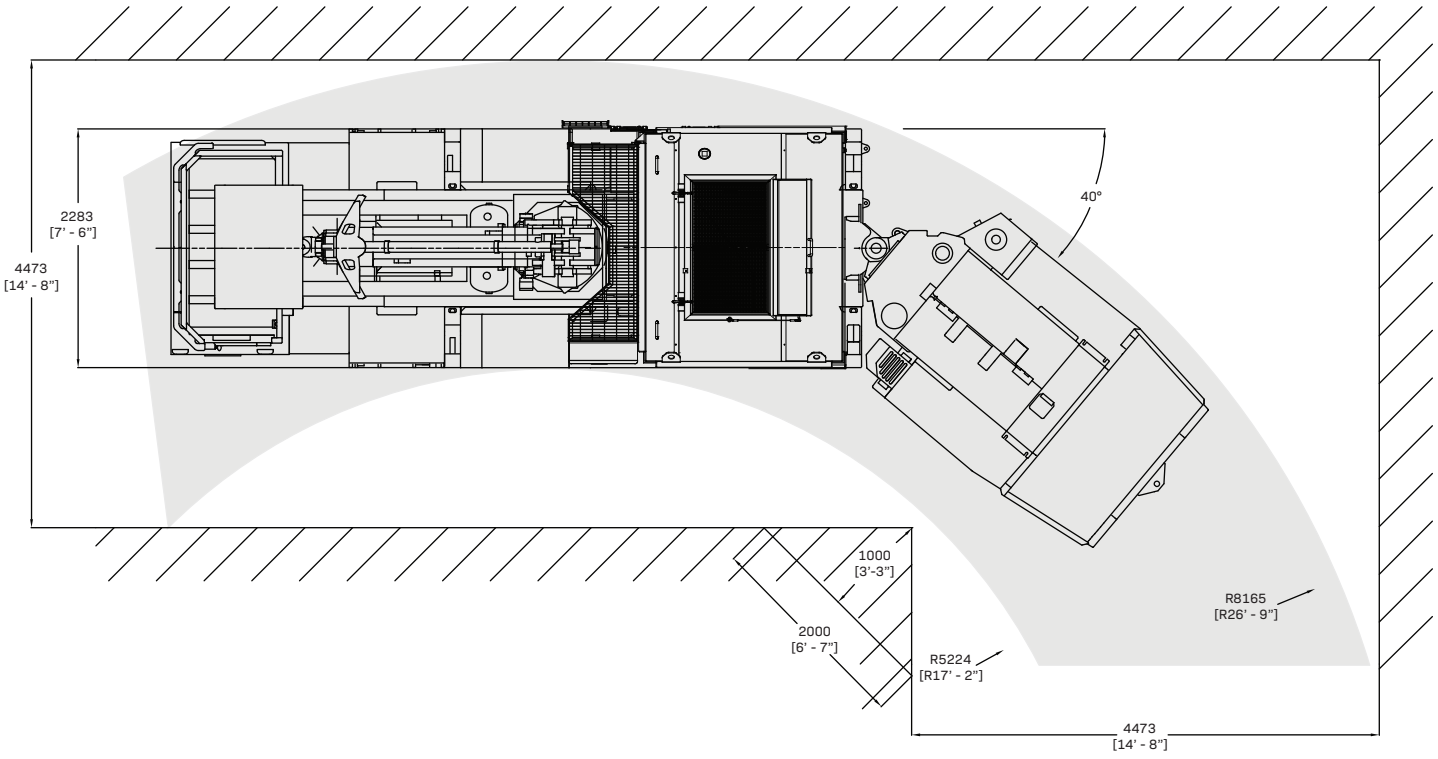
MACHINE WIDTH	2283 mm	90 in
INNER TURNING RADIUS	5224 mm	206 in
OUTER TURNING RADIUS	8165 mm	321 in

DIMENSIONS AND MANEUVERABILITY - FRONT ENTRY - 4450L CAPACITY



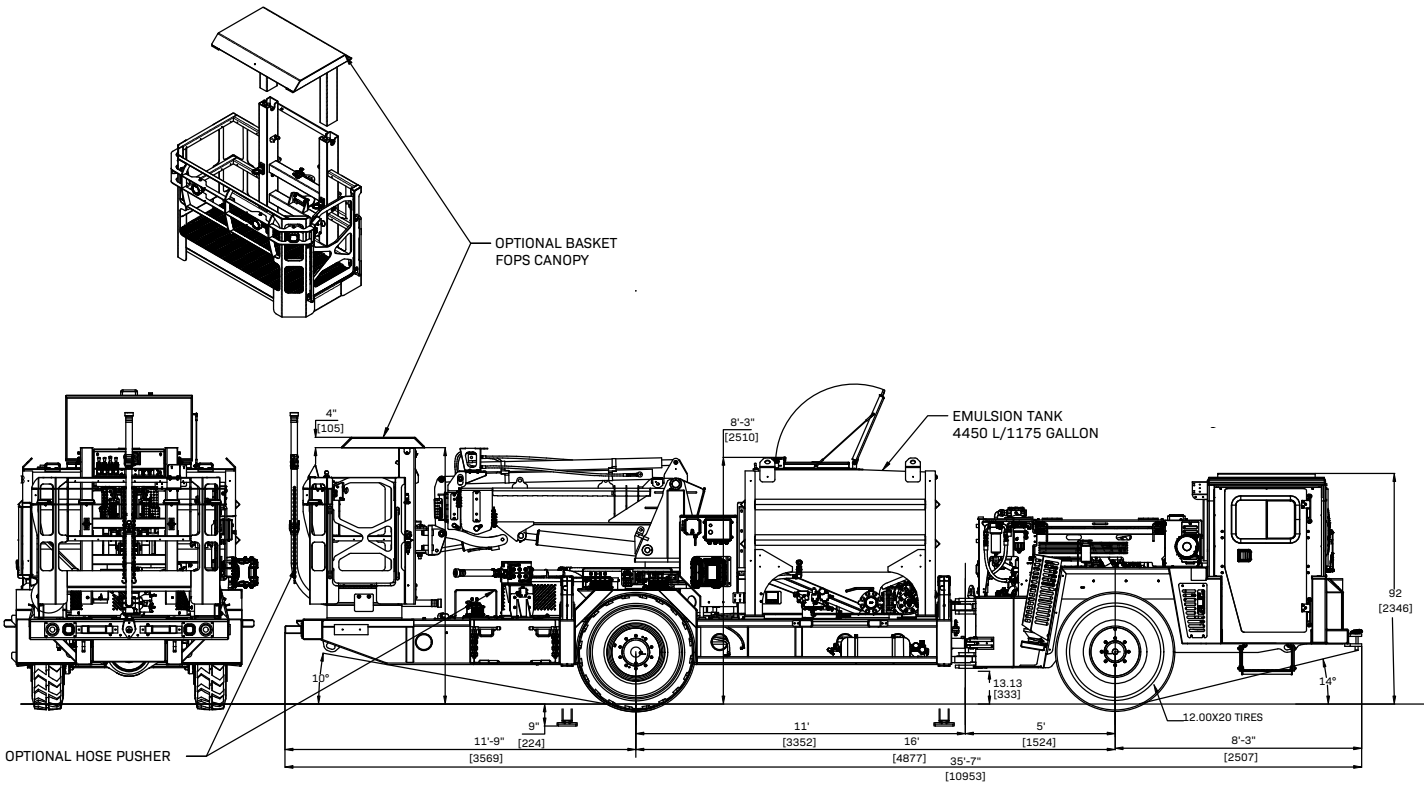
MACHINE LENGTH	10300 mm	405 in
WHEELBASE LENGTH	4877 mm	192 in
GROUND CLEARANCE	339 mm	13 in
EMULSION TANK HEIGHT	2529 mm	100 in
MACHINE HEIGHT (Boom)	2503 mm	99 in
GROSS EMULSION DECK CAPACITY (Kessler 72 / 12.00X20)	4450L	

DIMENSIONS AND MANEUVERABILITY - FRONT ENTRY - 4450L CAPACITY



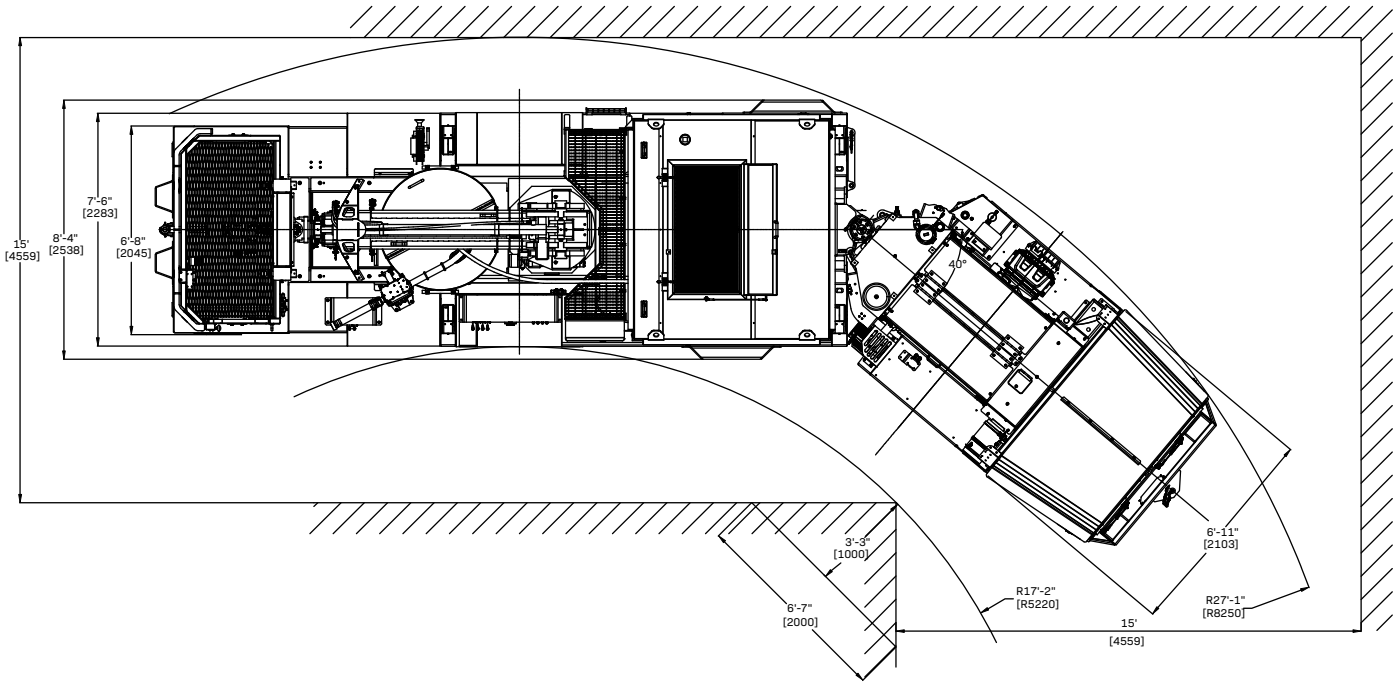
MACHINE WIDTH	2283 mm	90 in
INNER TURNING RADIUS	5224 mm	206 in
OUTER TURNING RADIUS	8165 mm	321 in

DIMENSIONS AND MANEUVERABILITY - SIDE ENTRY- 4450L CAPACITIES



MACHINE LENGTH	10953 mm	431 in
WHEELBASE LENGTH	4877 mm	192in
GROUND CLEARANCE (Kessler 41 / 10.00X20)	333 mm	13 in
EMULSION TANK HEIGHT 1600L (Kessler 41 / 10.00X20)	2510 mm	99 in
MACHINE HEIGHT	2510 mm	99 in
EMULSION CAPACITY (Kessler 72 / 12.00X20)	4450L	

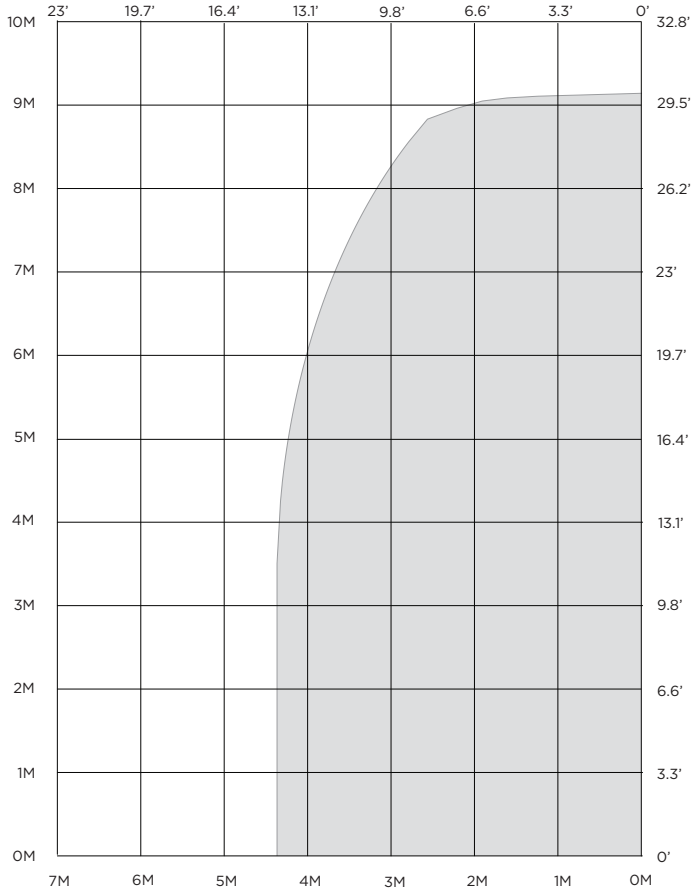
DIMENSIONS AND MANEUVERABILITY - SIDE ENTRY- 4450L CAPACITIES



MACHINE WIDTH	2538 mm	100 in
INNER TURNING RADIUS	5220 mm	206 in
OUTER TURNING RADIUS	8250 mm	325 in

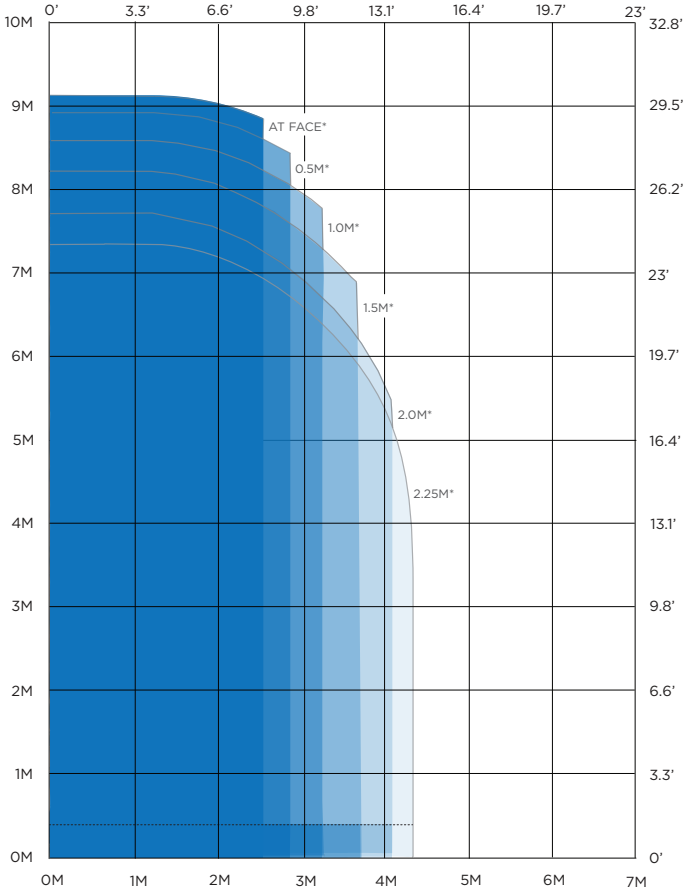
FACE COVERAGE AREA - BOOM LIFT PACKAGE, 1200 LB
SLEWING ANGLE 80º

MAXIMUM BOOM COVERAGE



SINGLE SETUP COVERAGE

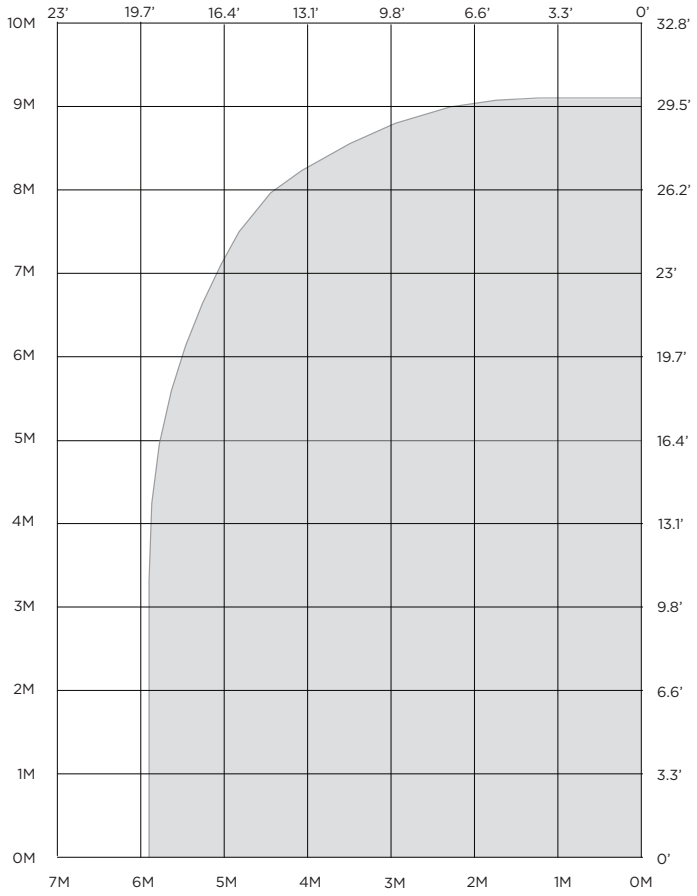
*MACHINE DISTANCE TO FACE LABELED IN METERS



BOOM ROTATION (Each direction / Total)		40° / 80°
CANOPY		Optional
BASKET CAPACITY*	544 kg	1200 lbs
BASKET ROTATOR		NA
MAXIMUM BOOM COVERAGE	8.7m x 9m	28'5" x 29'5"
AUTO-LEVELING		Yes
QUANTITY OF STABILIZERS		4
*Basket Capacity decreases 91 kg (200 lbs) with Canopy Option		

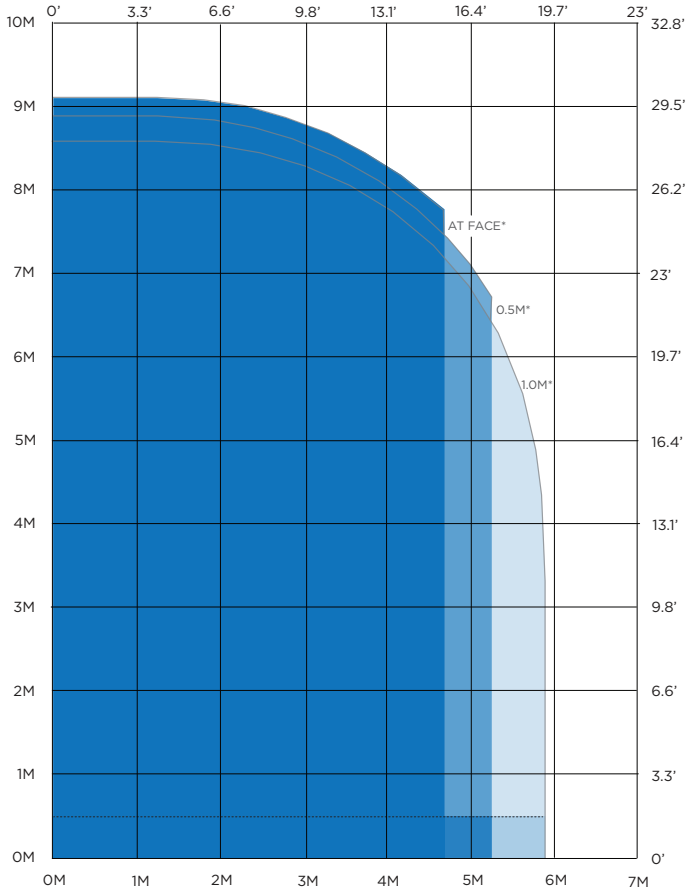
FACE COVERAGE AREA - BOOM LIFT PACKAGE, 700 LB
SLEWING ANGLE 110°

MAXIMUM BOOM COVERAGE



SINGLE SETUP COVERAGE

*MACHINE DISTANCE TO FACE LABELED IN METERS

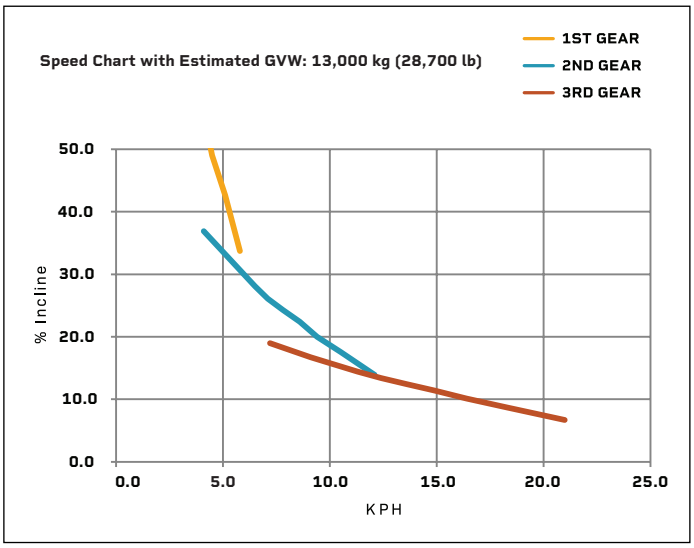


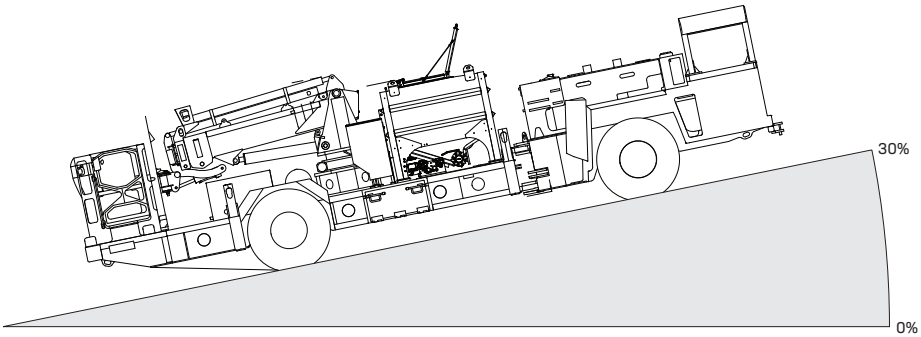
BOOM ROTATION (Each direction / Total)		55° / 110°
CANOPY		Optional
BASKET CAPACITY*	318 kg	700 lbs
BASKET ROTATOR		Yes
MAXIMUM BOOM COVERAGE	11.8m x 9m	38'7" x 29'5"
AUTO-LEVELING		Yes
QUANTITY OF STABILIZERS		4
*Basket Capacity decreases 91 kg (200 lbs) with Canopy Option		

ENGINE AND PERFORMANCE (TIER III)

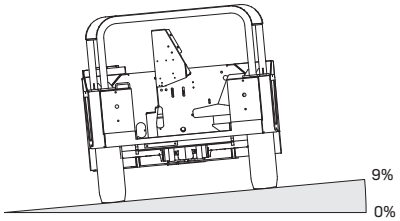
CUMMINS QSB4.5 ENGINE PACKAGE

MANUFACTURER	Cummins
MODEL	QSB4.5
STAGE	Tier III
DESIGN	4 Cylinders in line, water cooled
MAX POWER	127 kW (170 hp) @ 2200 rpm
EXHAUST SYSTEM	Catalytic exhaust conditioner and silencer
ASPIRATION	Turbocharged





Maximum Recommended
Longitudinal Tramming Gradient



Maximum Recommended
Transverse Tramming Gradient



ABOUT GETMAN CORPORATION

Getman Corporation is a global supplier of mobile equipment to the mining industry, offering customer-specific solutions to underground mines in the production and production support classes of equipment. All Getman equipment is designed with extensive research and development and is supported by over seventy years of experience in serving the underground mining industry.

Through our network of distributors we sell and support our products on six continents, offering exceptional product solutions and following up with world class aftermarket support. At Getman Corporation, designing and building vehicles for the underground mining industry is what we do. We take pride in being the preferred supplier of underground production and production support equipment to miners globally by offering customer-specific, value-driven and long-lasting solutions. For more information contact your Getman distributor or email us at info@getman.com, or visit our website at getman.com.

For parts or service support, email us at parts@getman.com or service@getman.com.

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Pictured machines in this document may contain optional and additional equipment.

GETMAN

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