

MOBILE MINING



MINE RUNNER

AHEAD OF THE GRADE



www.rockbreaker.com



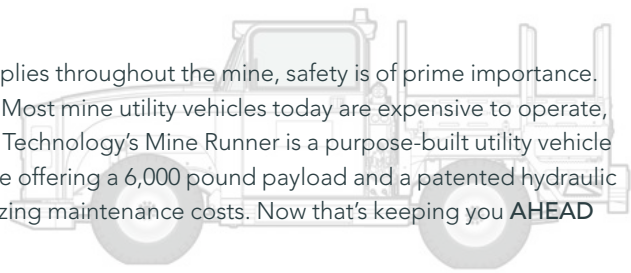
MINING TRANSPORT

BUILT TO SAVE ON OPERATIONAL COSTS



GET AHEAD OF THE GRADE

Breaker Technology understands when transporting people and supplies throughout the mine, safety is of prime importance. You also need a high payload while keeping maintenance costs low. Most mine utility vehicles today are expensive to operate, costing you more time and money than your budget allows. Breaker Technology's Mine Runner is a purpose-built utility vehicle engineered to withstand the rugged underground environment while offering a 6,000 pound payload and a patented hydraulic wheel drive system to give you the highest level of efficiency, minimizing maintenance costs. Now that's keeping you **AHEAD OF THE GRADE.**





EFFICIENCY AND POWER THAT'S EASY TO DRIVE AND MAINTAIN

LOWER YOUR MAINTENANCE COSTS

Better brakes mean less maintenance costs. Service braking is accomplished using the hydraulic pump and wheel motors, meaning there's no mechanical wear parts to fail or replace. The Mine Runner's primary and secondary braking systems are designed and tested to meet and exceed the CSA braking standard and performance for underground mining machines.

See Videos Online At

www.rockbreaker.com

INTUITIVE DRIVING AND HANDLING

Using both accelerator and brake pedals for tram and braking control, our patented Advanced Breaking and Trammig (ABT) system is smooth and seamless with an automotive feel. With automatic or manual shifting and traction control, there are no underground conditions that are too tough to tame.

- ⊕ Automated Braking and Traction Control: sophisticated patented ABT Control System monitors and controls the pump, engine, wheel motors, etc. to provide seamless operation.
- ⊕ Immediate Emergency Braking and Parking: Emergency/Park brakes are Spring Apply/Hydraulic Release. There is a wet disc break on each wheel motor that provides immediate emergency stopping and parking.
- ⊕ Smooth Ride and Handling: a simple yet robust suspension design with 12.5" (317 mm) ground clearance and smooth undercarriage, eliminating the mechanical drivetrain components.
- ⊕ Tight Turning Radius: ability to maneuver in tight spaces with 114" (2896 mm) wheelbase on the standard model and 155" (3936 mm) on the Extended Wheel Base model with a 36-degree turning angle.



OPTIMIZED POWER DELIVERY PUTS POWER WHERE YOU NEED IT MOST - ON THE GRADE

The HWD power train provides optimized power delivery to each wheel independently, with up to 40% more overall efficiency over conventional transmission systems. This ensures the diesel engine is running within its optimal power band delivering higher levels of performance.

- ⊕ 40 percent more efficient: turbo diesel engine driving a close loop hydraulic pump transfers power through four independent hydraulic wheel motors.
- ⊕ Engine Anti-Stall: insufficient engine power for the load causes the pump to de-stroke, allowing the engine to recover.
- ⊕ Reduced Emissions: an efficient engine means less emissions, reducing the mine's need for high ventilation when operating the Mine Runner.

TRANSPORT PERSONNEL SAFELY & COMFORTABLY



PERSONNEL TRANSPORT

Breaker Technology has put several safety features in place to ensure you can transport everyone safely while keeping emissions low. The Mine Runner offers a spacious and ergonomic three-person ROPS/FOPS forward cabin with excellent visibility for the driver. The eight-person cabin on the standard model or 12-person cabin on the Extended Wheel Base transports personnel through the mine safely and comfortably.



- ⊕ Three-point entry into cabins with emergency exits
- ⊕ No hydraulic lines in cabin
- ⊕ Excellent visibility from operator's compartments with side view mirrors, back-up alarm and an optional back-up camera
- ⊕ Safety glass windows with slider windows in doors
- ⊕ Windshield wiper washer system
- ⊕ Three independently adjustable seats with belts
- ⊕ Automatic spring applies emergency braking system
- ⊕ Clean EPA Tier III Deutz Diesel engine
- ⊕ Fire suppression system option
- ⊕ Heat shield on exhaust piping under engine hood
- ⊕ Flashing orange beacon
- ⊕ LED lights





TWO MODELS WITH MULTIPLE OPTIONS



Base Model
Standard



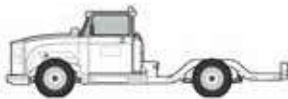
Personnel Carrier
Standard



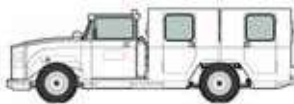
Flat Deck
Standard



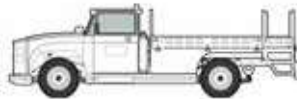
Utility Pickup
Standard



Base Model
Extended Wheel Base



Personnel Carrier
Extended Wheel Base



Flat Deck
Extended Wheel Base

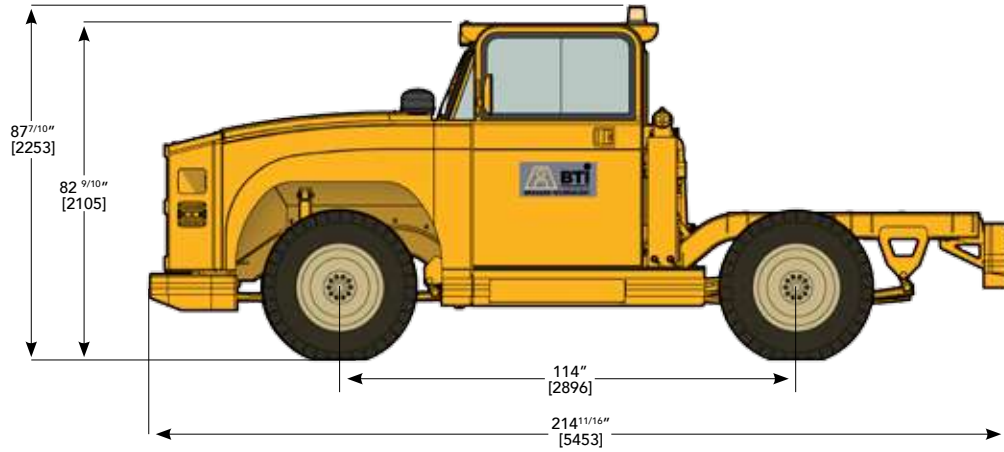


Personnel Carrier - Flat Deck Combo
Extended Wheel Base

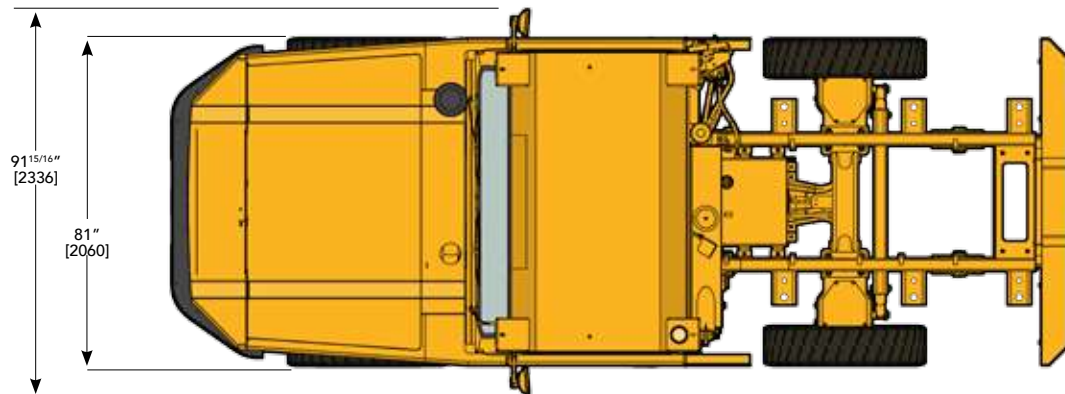


STANDARD MINE RUNNER DIMENSIONS

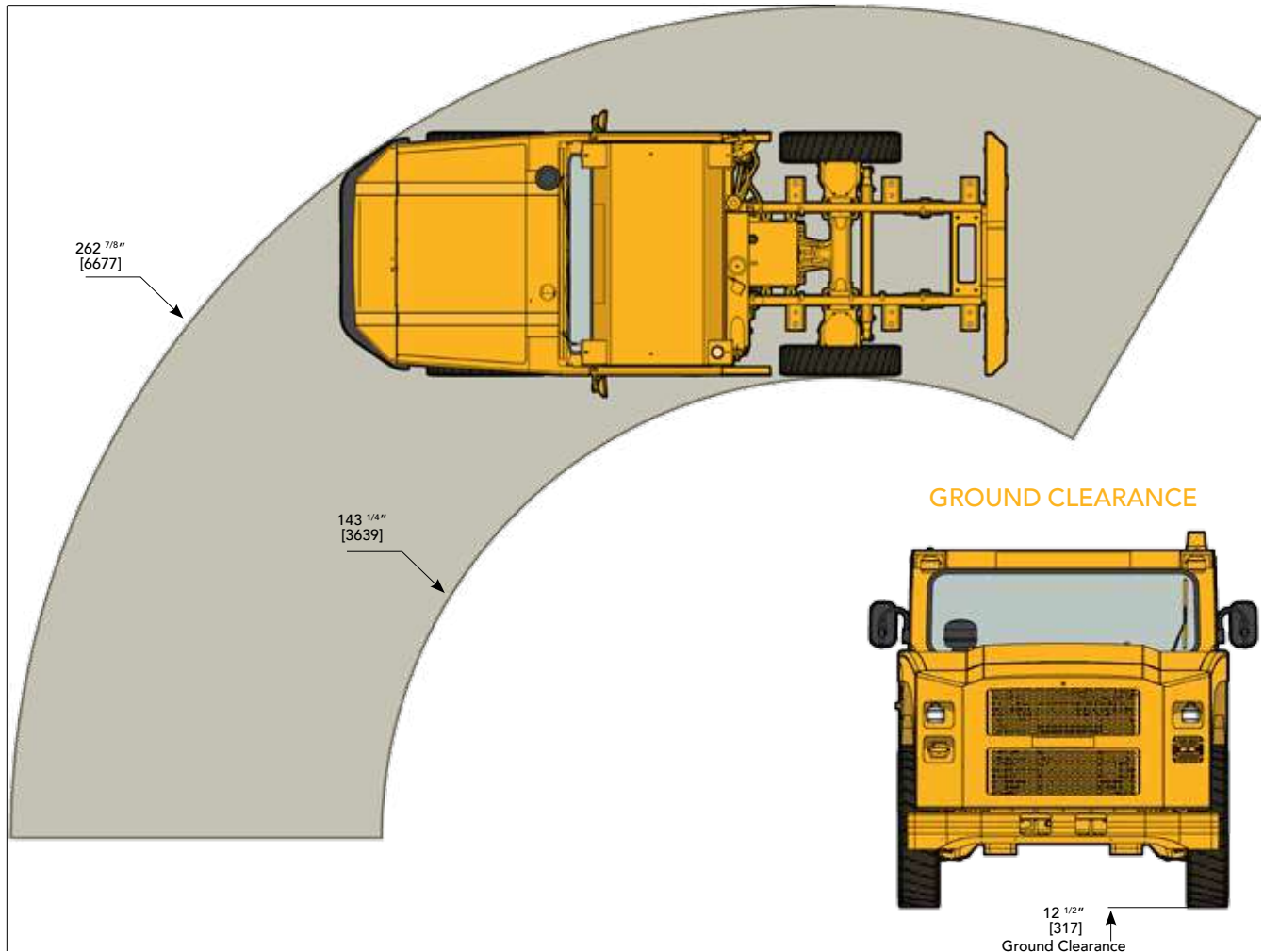
SIDE VIEW



TOP VIEW

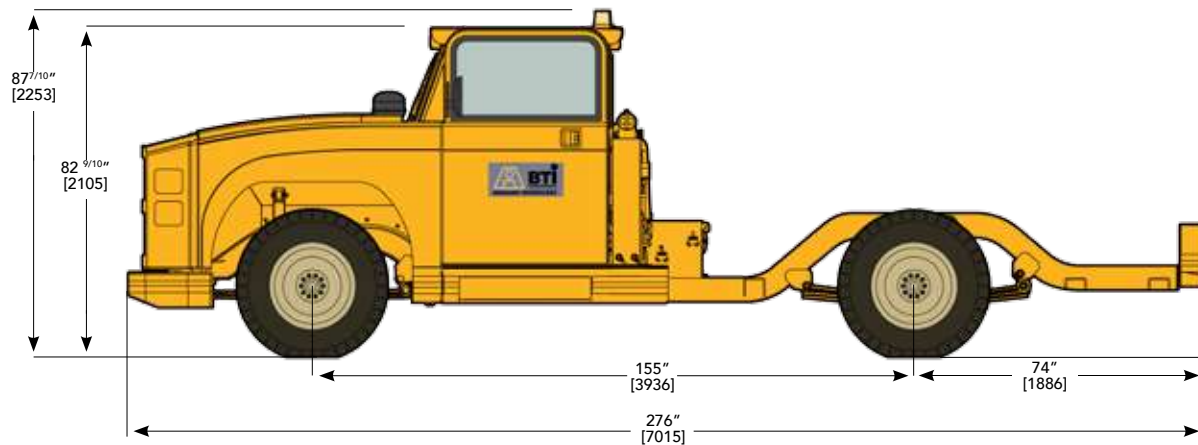


STANDARD MINE RUNNER DIMENSIONS TURNING RADIUS

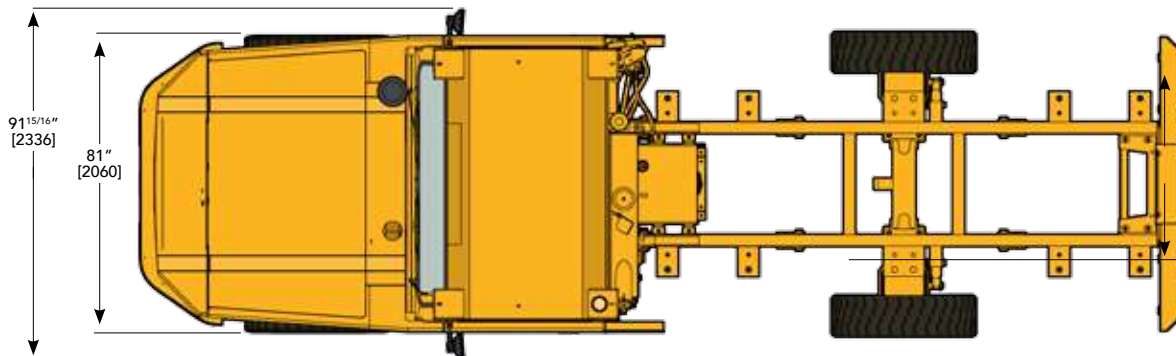


EXTENDED WHEEL BASE (EWB) MINE RUNNER DIMENSIONS

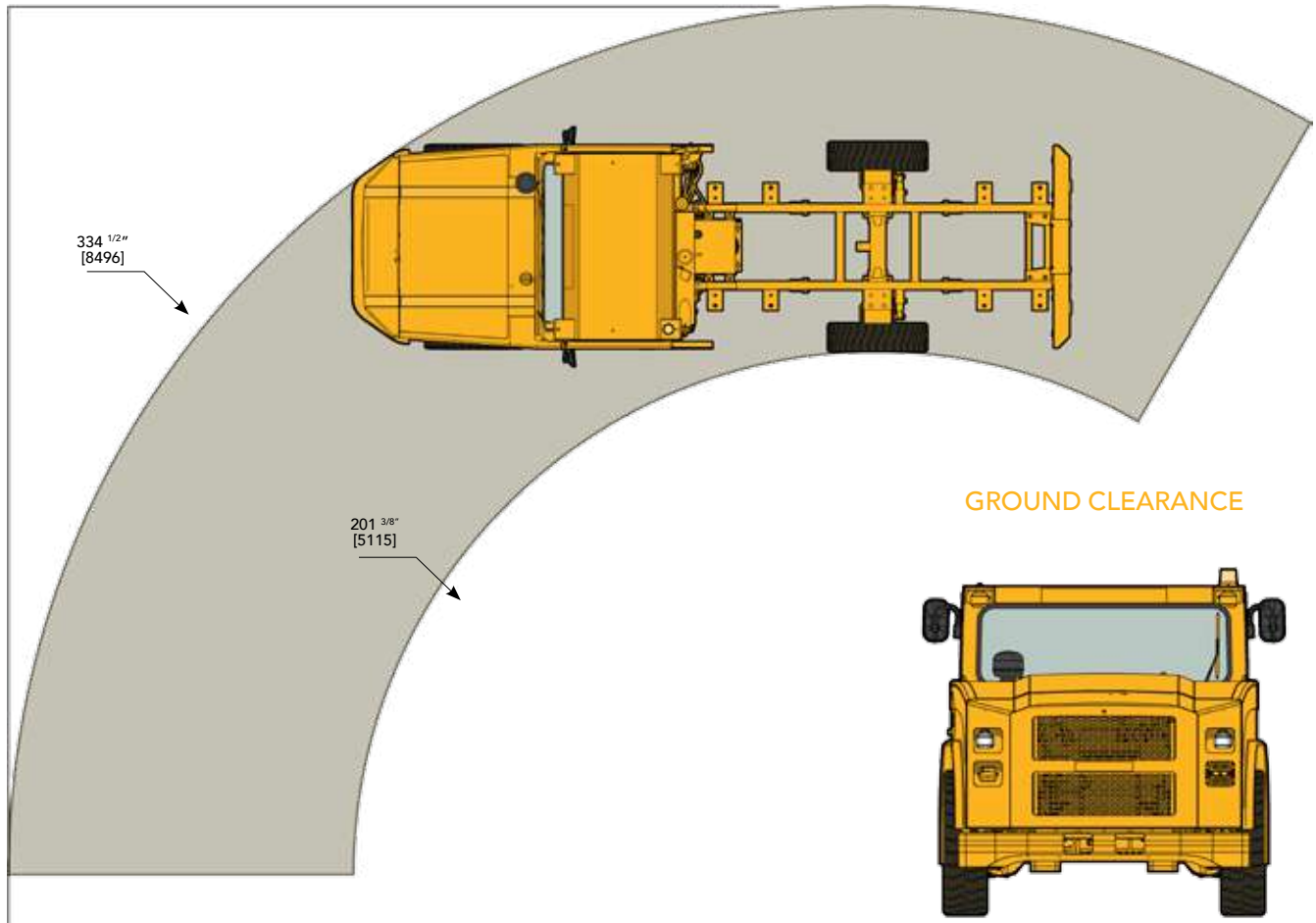
SIDE VIEW



TOP VIEW



EXTENDED WHEEL BASE (EWB) MINE RUNNER DIMENSIONS TURNING RADIUS



| MODEL | STANDARD | EWB |
|------------------------------------|---|--|
| Body Style | Center seated, engine forward Left-hand drive | |
| Drive Type | 4 Wheel Drive / 2 Wheel Steer | |
| Suspension | Rigid Axles, with parabolic leaf springs and shock absorbers, approximately 5" of travel and 12.5" ground clearance | |
| Gross Vehicle Weight Unladen | 16,000 lb / 7272 kg | 17,750 lb / 8068 kg |
| Payload | 10,000 lb / 4545 kg *6,000 lb / 2727 kg | 10,500 lb / 4772 kg *7,250 lb / 3295 kg |
| Vehicle Width | 81" / 2.1 m (without mirrors) | |
| Vehicle Height | 87.7" / 2253 mm (to top of Beacon) | |
| Ground Clearance | 12.5" / 31.7 cm (to the lowest point on skid plate) 13.5" / 34.3 cm (to bottom of frame) | |
| Turning Radius - Outer | 262.87" / 6677 mm | 334.5" / 8496 mm |
| Turning Radius - Inner | 143.25" / 3639 mm | 201.37" / 5115 mm |
| Top Speeds on 0-2% Grade (Loaded): | | |
| 1st Gear: | 14.3 mph / 23 km/hr | |
| 2nd Gear: | 18.6 mph / 30 km/hr | |
| 3rd Gear: | 27.3 mph / 44 km/hr | |
| Automatic: | 27.3 mph / 44 km/hr | |
| Reverse: | 14.3 mph / 23 km/hr | |
| Top Speeds up 20% Grade (Loaded) | | |
| Forward (Automatic) | 9.3 mph / 15 km/hr | |
| Reverse | 9.3 mph / 15 km/hr | |

* Equally distributed over the length of the bare chassis

| MODEL | STANDARD | EWB |
|----------------------------|---|--|
| Approach / Departure Angle | 36% (20°) Front and Rear angle - unladen condition | 36% (20°) Front and 25% (14°) Rear angle - unladen condition |
| Number of Passengers | 3 std (Operators Cab) | |
| Engine | Deutz 2012 Tier III 129 HP / 96 KW @ 2200 RPM c/w CANMET or MSHA certified | |
| Tires | 8.25R22.5 / 18 PLY - Mining Tires c/w Wheel chocks | |
| Brakes | SAHR (Spring Apply Hydraulic Release) Parking / Emergency brake in each hydraulic wheel motor. Closed Loop Hydraulic Wheel End Service Brakes via pump over-center swash plate. Certified to CAN/CSA-M424.3-M90 Braking Test | |
| Steering System | Automotive Style Tilt & Telescopic Steering Wheel in dash / Full Hydraulic Steering, with Orbital Steering Valve and Single Steer Cylinder / Horn Button in steering wheel | |
| Controls | Automotive style, accelerator and service brake pedal Automatic and standard shift (1, 2, 3 & A Select, Forward and Reverse) Drive by wire 4WD Traction Control - minimal tire wear/scrub throughout entire turning radius | |

| MODEL | STANDARD | EWB |
|-------------------------|---|--|
| Fuel System | 30 Gal Tank (113 L) / Pre-filter / Water separator with primer Dash mounted fuel gauge | |
| Electrical System | 24 Vdc 80 amp Alternator CAN based electronic control system Flame retardant wiring Lockable battery disconnect FWD/REV High output LED drive lights Roof mounted high output LED work lights | FWD/REV Rear red LED marker/brake lights Back-up alarm Horn Roof mounted beacon light Bluetooth Data Reporting |
| Dash Instrumentation | Ergonomically fitted operator controls Graphical User Interface Health monitoring and diagnostics for engine and HWD systems. Electric fuel gauge 12V 12.5A auxiliary power outlet | |
| Chassis and Body | Heavy bumpers front and rear, tied into main frame / Tow hooks front and rear | |
| Cab | ROPS/FOPS Certified Safety glass windows, slider windows in doors Windshield wipers/washer system 3 independent adjustable seats with seat belts Emergency exit front wind shield | Cab pressurizer with RESPA® filtration system Fire Extinguisher Cab heating No hydraulics in the cab |
| Available Options | Fire suppression system AC system Remote Hand pump for release of Emergency Parking Brakes - for towing | Engine block heater Rear deck work lights T-back seats Central manual/ remote grease system |
| Optional Configurations | Base Model 8 person personnel carrier (ROPS/FOPS optional) Flat deck Utility truck | Base model 15 person personnel carrier (ROPS/FOPS optional) Flat deck Personnel carrier - flat deck combo (6 person + deck) |

Specifications are subject to change without obligation of prior notice. All results may vary.



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