

SCOOP GSU488

Specifications

Dimensions (approxi	mate)		
Overall Length With lifting forks With contoured bucket With quick-attach flat bo Length with lift plate att		8030 mm 8940 mm 9140 mm 8230 mm	26 ft 4 in 29 ft 4 in 30 ft 0 in 27 ft 0 in
Overall Width With lifting forks With contoured bucket With quick-attach flat bo	ottom bucket	2690 mm 2900 mm 2900 mm	8 ft 10 in 9 ft 6 in 9 ft 6 in
Wheelbase		3660 mm	12 ft 0 in
Un-A-Trac Empty Weights Less Battery With 64-SS85-21 Battery With 64-SS100-21 Battery		16 650 kg 21 200 kg 21 770 kg	36,700 lbs 46,750 lbs 48,000 lbs
Battery Height from Groun	nd		
With 64-SS85-21 Battery 35X15-15 Tires 38X16-15 Tires		965 mm 1020 mm	3 ft 2 in 3 ft 4 in
With 64-SS100-21 Battery 35X15-15 Tires 38X16-15 Tires		1020 mm 1070 mm	3 ft 4 in 3 ft 6 in
With 64-SS125-21 Battery 35X15-15 Tires 38X16-15 Tires		1120 mm 1170 mm	3 ft 8 in 3 ft 10 in
Ground Clearance (Nomin (Please reference sales di profile)		earance	
35X15-15 Tires 38X16-15 Tires		250 mm 330 mm	10 in 13 in
Adjustable Cab Height 35X15-15 Tires 38X16-15 Tires	1270 mm-1520 mm 1350 mm-1600 mm		-5 ft 0 in -5 ft 3 in
Main Frame Height 35X15-15 Tires 38X16-15 Tires		860 mm 940 mm	2 ft 10 in 3 ft 1 in
Inside turn radius		3660 mm	12 ft 0 in
Outside turn radius		7315 mm	24 ft 0 in
Steering articulation		80° total	
Tram Speed		8 km/h	5 mph

Lift Capacity

14.5 tonne at 914 mm (16 tons at 36 in) from the face of lift plate

Drive Train

Tram Motor

One proprietary design

Mine traction

Direct current

Gear motor rated at 37 kW (50 hp) (1 hour) at 1,540 rpm and 110 Volts $\,$

MSHA totally enclosed, explosion-proof

Non-ventilated cooling

Foot-mounted

Reducer

A foot-mounted 3.33:1 ratio gearbox

Drive Lines

Heavy duty off-highway

7C type driveshafts with slip joints

Axles

Heavy duty

35 800 kg (79,000 lbs) capacity axle

Features outboard planetary

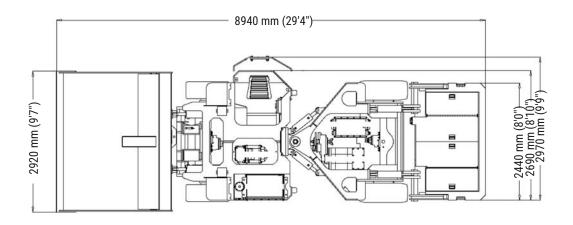
SAHR brakes

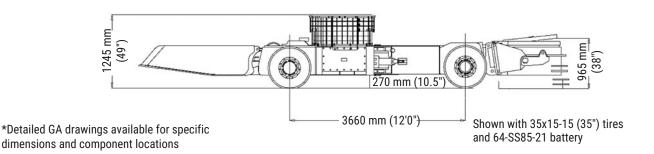
Brake cooling

Optional Diff-Lock

^{*}Alternate axles will be considered upon request







Brakes

Service & Emergency/Park

Spring-applied hydraulic release SAHR

4-wheel wet disc

Left-pedal activated

Controlled by reverse modulating valve

Hydraulics

Pump Motor

Mine duty

Laminated frame

Direct current

Motor rated at 12 kW (16 hp) (1 hour)

110 Volts DC

MSHA totally enclosed, explosion-proof

Non-ventilated cooling

Foot-mounted

Pump

Fixed displacement

Helical gear tandem pumps rated at 91 total L/min (24 total gpm) at 1,600 rpm

Pump is directly mounted to the pump motor housing.

Hydraulics (continued)

Reservoir

170 L (45 gal) capacity with magnetic particle sump strainer and 10 micron return line filter with by-pass. A sight glass on the side of the oil tank for oil-level monitoring.

Reservoir Fill System

Fill cap assembly in top of reservoir tank.

Valve Bank

Six section, parallel (flow through) type with 15.5 MPa (2,250 psi) internal relief and 11.7 MPa (1,700 psi) steering relief. Valve bank is rated at 151 L/min (40 gpm)

Hydraulic PTO

Two (2) quick coupler connections, 8.3 MPa (1,200 psi) maximum recommended operating pressure.

Steering Cylinder

Two (2) 127 mm (5 in) bore, double-acting cylinders with forged rods and self-aligning bearings.

Lift Cylinder

Two (2) 178 mm (7 in) bore, double-acting cylinders with forged rods and self-aligning bushings.

Hydraulic Hose and Fittings

JIC fittings with high pressure hoses, MSHA 2G flameresistant approved.



Fire Suppression

Four point, 9 kg (20 lbs), multi-purpose, ABC dry chemical fire suppression system manually actuated from operator's compartment and remote location.

Frame

Heavy-duty with bends utilized where applicable to reduce the number of indeterminate stresses introduced by welding; constructed of ASTM 572-GR50 steel with T-1 steel at high stress or wear areas; 254 mm (10 in) extended operator's deck with side egress access.

Center Section

Heavy-duty ball bearing with unlimited oscillation; internal grease seals to prevent contamination of the ball bearings, and pivot points designed to distribute loads using selfaligning, one-piece, heavy-duty radial bearings.

Operator's Compartment

- 1. 254 mm (10 in) extended operator's deck
- Control station which houses the master switch for park, forward and reverse; light switch for front and rear lights; pump motor start button and automatic park brake release
- 3. Right foot accelerator pedal
- 4. Left foot brake pedal
- Tape strip panic switch that de-energizes electrical system and applies automatic brake
- 6. Warning gong
- 7. Manual circuit breaker lever reset handle
- 8. Valve bank hydraulic functions:

Steering

Bucket

Bucket eject

Winch/power take off

Battery changer

- 9. System pressure gauge
- 10. Accumulator pressure gauge
- 11. Park brake release pressure gauge

Operator Control

Left-hand control stick that incorporates the most common operator functions

Ergonomically designed control stick for one-hand control of pump motor, park brake, travel direction, traction assist, stop/shutdown and headlight controls. Speed control accomplished by right-foot-activated pedal. Tapeswitch stop switches located on both sides of operator.

Manual disconnect switch

Electrical Controls

- Model 2000, microprocessor controlled, IGBT, contactorless, 128VDC, 1200 amp traction motor controller with infinity variable, stepless, machine speed control. Equipped with on-board dashboard display for machine information of battery capacity, battery voltage, motor currents, elapsed time hourmeter, and troubleshooting diagnostics information.
- Microprocessor controlled, IGBT, contactorless, 128VDC, 350 amp, pump motor controller. Limits starting current and provides LED-based diagnostics.
- Mine duty, 600 amp frame circuit breaker, with UVR (under voltage release) trip unit.

Operator's Compartment Options

533 mm (21 in) deck extension to provide better visibility in the lower seams

Hydraulically activated, floor mounted, foot operated push button.

35X15-15 Tires – Customer-specified tire brand and fi

Tire/Wheel Option

35x15-15 Tires - Customer-specified tire brand and fill type.

38x16-15 Tires - Customer-specified tire brand and fill type.

Lift Attachment Option

QDS quick attach module (required for all QDS attachments)

ODS fork assembly

QDS battery carrier

Winch Option

Winch – 13 600 kg (30,000 lb) bare drum pull, two-speed winch assembly with 21.3 m of 19 mm (70 ft of ¾ in) diameter steel cable. Requires operator cab in lieu of canopy.

Cab Options (cab must be utilized when winch is selected)

Manual

Hydraulic

Battery Plug – Single Connector Option

J&R 2000, 5-pole, Brass w/Captive Wrench

Brass plug with a captive wrench to install or remove the battery plugs. Battery plug is rated at 600 amps.

Other connector options available upon request



Lighting System Option

Ocenco, Halogen, 12VDC, 50 watt

Two front headlights with protective guard, and two rear headlights with protective guard. MCI 120V MCI 12V

Center Section Cable Location Option

All cables over the top of center section.

Cables are protected with additional guarding and covers. This will add 76 mm (3 in) to overall frame height.

Auxiliary Components

Battery Change Cables

Machine Battery

Battery Tray

Battery with Plastisol Coated Tray (Single Connector)
Battery Receptacle Kit
Battery Filling System

Battery Charger Options

Single-output for one battery

Dual-output for two batteries

Battery Charger Accessories

Heavy-duty Charger Case

Sled consisting of heavy-duty protection framework and equipped with lifting mechanisms designed to be engaged by the optional QDS Lift System.

Other Options

Schroder Test Mate

PA approval kit

Park brake pressure switch

Venturi jet fill

Traction motor over speed protection

Handheld calibrator

(control adjustments and troubleshooting)

HiPAC 10 control system

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