



# FACE HAULER GFH120



## Major Features

- Integrated battery lift mechanism simplifies battery change out, reducing change-out time.
- Major components designed and positioned for simplified service and minimal downtime.
- Optimum payload capacity giving you greater cost effective haulage per battery discharge.
- Tire and battery options to suit your application.

## Specification

### General Data

Operating Height	1422-2133 mm	56-84 in
Frame Height	1168-1245 mm	46-49 in
Payload Capacity	17 tonnes	19 tons
Power Type	Battery	

### Wheelbase

Empty Weights		
Without Battery	27 025 kg	59,580 lb
With 120-SSP110-19 Battery	37 566 kg	82,820 lb
With 120-SSP140-19 Battery	39 471 kg	87,020 lb

### Design Gross Vehicle Weight

Cubic Meters/Cubic Feet Capacity: (Maximum Payload – Calculated)		
Heaped with No Sideboards	18.49 m <sup>3</sup>	653 ft <sup>3</sup>
Heaped with 50.8 mm (2 in) Sideboards	19.20 m <sup>3</sup>	678 ft <sup>3</sup>
Heaped with 101.6 mm (4 in) Sideboards	19.88 m <sup>3</sup>	702 ft <sup>3</sup>
Heaped with 152.4 mm (6 in) Sideboards	20.64 m <sup>3</sup>	729 ft <sup>3</sup>

### Turning Radius

Steering Articulation	120 degrees total	
Tram Speed (speed will vary depending on floor conditions)	0-9.66 km/h	0-6 mph
Discharge Time	24 seconds	
Terrain Compensation	(+ ) 15 degree	
Articulation	(- ) 10 degree	

### Hydraulics and Controls

- Pressure-compensated pump hydraulic system for optimal performance
- Hydraulic component design and placement for ease of service and/or maintenance and fewer hydraulic components and hoses
- Bulkhead-mounted hosing for ease of service and/or maintenance
- Battery lift load-locking counterbalance valves for safety
- Tuned battery-lift shock absorption for ride comfort
- Battery-lift float function to ease battery change
- Auto-retract function to automatically return ejector to load position while tramming
- Larger brake release hand pump – 8 to 10 pumps required
- 37.85 L/min (10 gal/min) powered and filtered hydraulic oil tank fill
- Service tees provided for ease of gauge installation to troubleshoot and/or service

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## Hydraulics

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Pump Motor	Mine-duty laminated frame; alternating current motor: MSHA totally enclosed, explosion-proof, non-ventilated cooling, and foot-mounted.
Pump	Main hydraulic system, pressure compensated piston pump directly splined to pump motor at 20 687 kPa (3,000 psi) and monitored by a glycerin-filled main system pressure gauge.
Reservoir	257.408 L (68 gal) capacity reservoir equipped with breather and removable suction strainer.
Valve Bank	Five-section parallel type equipped with glycerin-filled pressure-monitoring gauge for the following functions: <ul style="list-style-type: none"> <li>■ Eject/Retract</li> <li>■ Vertical Articulation (Terrain Compensation)</li> <li>■ Battery Lift (Changer)</li> <li>■ Battery Lock</li> <li>■ Steering</li> </ul>
Battery Float	Two position-3-way valve.
Steering Cylinder	Two (2) double-acting cylinders with 63.5 mm (2.5 in) forged rods. Equipped with integrated shock-absorption relief system.
Battery Changer Cylinder	Two (2) double-acting cylinders with 63.5 mm (2.5 in) forged rods and internal load checks.

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## Drive Train

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Two proprietary design, double-reduction parallel primary reducers equipped with integral multiple wet disc brakes and axle shaft, mounted to a proprietary design planetary wheel end.

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## Electric Drive Train

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- Variable-frequency traction drive
- 56 kW (75 hp) AC inductance traction motor
- 36 kW (48 hp) inverter duty AC inductance pump motor
- Operator interface diagnostic and information display
- Control system with operator interface accelerator and operator interface control handle
- Lead acid battery DC power source

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## Brakes

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Service	Two (2) hydraulically actuated, multiple wet disc brakes
Automatic Brake	Spring-applied, hydraulic-released braking system controlled by electrical/hydraulic solenoid and equipped with totally enclosed multiple wet disc brake in each drive unit, manual hand pump brake release, and glycerin-filled pressure monitoring gauge.

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## Frame

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Heavy-duty, with bends utilized where applicable to reduce the number of indeterminate stresses introduced by welding.

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## Center Section

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Heavy-duty, dual-articulation joint, welded steel construction with steel pivot pins, complete with horizontal self-aligning pivot thrust bearings on the primary articulation and ball bearing on secondary articulation with an axial load rating of 261 269 kg (576,000 lb).

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## Battery Changer

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Ground Level Battery Changer System. The FH120 is equipped with an Attach/Detach tilt-style battery change system. No battery stands are required.

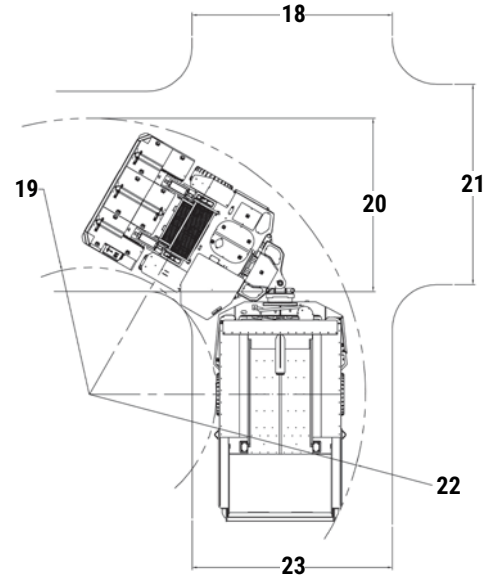
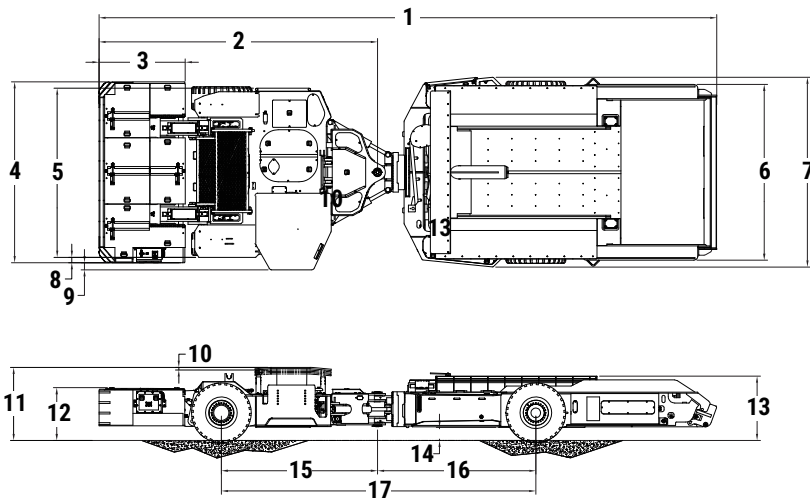
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## Operator's Compartment

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### Features

- Full height back and head protection
- Side egress, access
- Heavy-duty, adjustable, ergonomically designed operator's seat
- Ergonomically designed control stick, for one-hand control of pump motor, park brake, travel direction, traction assist, stop/shutdown and headlight controls
- Right-foot-operated accelerator switch pedal
- Dual panic tape switches that de-energize electrical system and apply automatic brake
- Warning gong
- Left-hand mechanical steering handle
- Right-hand false bottom ejection/retraction handle
- Right-hand vertical articulation handle (terrain compensation)
- Right-hand battery changer handle
- Right-hand battery lock/unlock handle
- Right-hand battery float handle (independently located separate from valve bank)
- Left-foot brake pedal
- Easily visible glycerin-filled gauges
- Manual breaker lever reset



### Dimensions (All dimensions are approximate.)

1	11 884 mm	39 ft 0 in	13	1237 mm	4 ft 1 in
2	5357 mm	17 ft 7 in	14	253 mm	10 in
3	1658 mm	5 ft 5 in	15	3004 mm	9 ft 10 in
4	3480 mm	11 ft 5 in	16	3048 mm	10 ft 0 in
5	3254 mm	10 ft 8 in	17	6050 mm	19 ft 10 in
6	3381 mm	11 ft 1 in	18	5486 mm	18 ft 0 in
7	3650 mm	12 ft 0 in	19	3477 mm	11 ft 5 in
8	104 mm	4 in	20	4748 mm	15 ft 7 in
9	136 mm	5 in	21	5486 mm	18 ft 0 in
10	51 mm	2 in	22	7563 mm	24 ft 10 in
11	1406 mm	4 ft 7 in	23	5482 mm	18 ft 0 in
12	1015 mm	3 ft 4 in			

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