



LF-3

Main Features

- Compact and powerful design for narrow veins
- Proven technology for hard rock and tunneling applications
- Extremely robust GHH frame and system design resulting in lowest operating cost
- ROPS/FOPS approved canopy
- High lift boom available
- Customized and ejector buckets
- PDS Compliant

Technical Specification

MAIN DIMENSIONS

Length (traming position)	7 478 mm
Length (loading position)	7 942 mm
Width (at cabin)	1 536 mm
Width (at drive unit)	1 480 mm
Width (at bucket)	1 511 mm
Height, laden (above drive unit)	1 509 mm
Height, laden (above driver's canopy)	1 864 mm
Max. tipping height	1 346 mm
Standard bucket capacity (SAE)	1.5 m ³

ENGINE

	AIR COOLED	WATER COOLED
Manufacturer	Deutz	Cummins
Type	F6L914	QSB 4.5
Design	Air cooled diesel engine	Water Cooled diesel engine
Power	72 kW / 2 300 min ⁻¹	67kW(90 hp) @ 2 300 min ⁻¹
Air intake system	Dry air filter	Dry air filter
Exhaust system	Catalyst, silencer	Catalyst, silencer
Emission standard	EPA Tier 2 / EU Stage II	EPA Tier 3 / EU Stage IIIA
Starter power / voltage	4 kW / 24 V	4 kW / 24 V
Alternator current / voltage	35 A / 28 V	70 A / 28 V
Operational Temperature	-20 to 45 degrees	-20 to 53 degrees
Operational Altitude	Engine option for high altitude BF6L914, up to 3000m	Up to 4500m (up to 2740m no derate)

DRIVE TRAIN

Torque converter

Manufacturer	Dana
Type	Series C 270
Design	Single stage

Power shift transmission

Manufacturer	Dana
Type	Series RT 20 000
Design	Three gears forward / reverse

ELECTRICAL EQUIPMENT

Operating voltage	24 V
Battery	2 x 12 V / 135 Ah

WEIGHTS

Operating weight	11 040 kg
Payload capacity	3 500 kg
Front axle, empty	4 120 kg
Rear axle, empty	6 920 kg
Front axle, loaded	8 970 kg
Rear axle, loaded	5 570 kg

WHEELS AND TIRES

Front wheels

Rim size	8.5 - 20
Tire size	12.0 - 20
Tire pressure	8.5 ± 0.1 bar

Rear wheels

Rim size	8.5 - 20
Tire size	12.0 - 20
Tire pressure	8.5 ± 0.1 bar

BRAKES (SERVICE AND PARKING)

Design	Multi disk spring Brake (SAHR)
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AXLES

Front axle	Rigid planetary axle
Manufacturer	Dana
Type	183
Differential	Standard
Rear axle	Rigid planetary axle, ±6°
Manufacturer	Dana
Type	183
Differential	No-Spin

LIGHTING SYSTEM

Main / reverse headlights	LED
Additional headlights	LED





LF-3

GHH Fahrzeuge GmbH • ghh-fahrzeuge.de • info@ghh-fahrzeuge.de • +49 209-38907-0 or sales@ghhmm.co.za • +27 11 896 0600

*Changes may apply without prior notice. Featured machines in photos may include variations / additional equipment

DUMP / HOIST HYDRAULIC SYSTEM

Number of hoist cylinders	2
Number of dump cylinders	1
Boom raising time	2.4 s
Lowering time	1.7 s
System Pressure	210 Bar

STEERING HYDRAULIC SYSTEM

System pressure	190 Bar
Number of steering cylinders	1



FILLING VOLUMES

Fuel tank	140 l
Hydraulic tank	120 l



TRAMMING CAPACITIES

Max. tramming speed (laden fwd./rev, on level road)	
1st gear	3.9 km/h
2nd gear	7.4 km/h
3rd gear	17.0 km/h
Maximum admissible gradient	28%
Maximum tractive force	120(*117) kN

STEERING

Design	Hydraulic articulated steering
Steering angle	±40°
Right outer turn radius	5422 ± 200 mm
Right Inner turn radius	3116 ± 200 mm
Left outer turn radius	5 421 ± 200 mm
Left inner turn radius	3116 ± 200 mm



MAIN OPTIONS

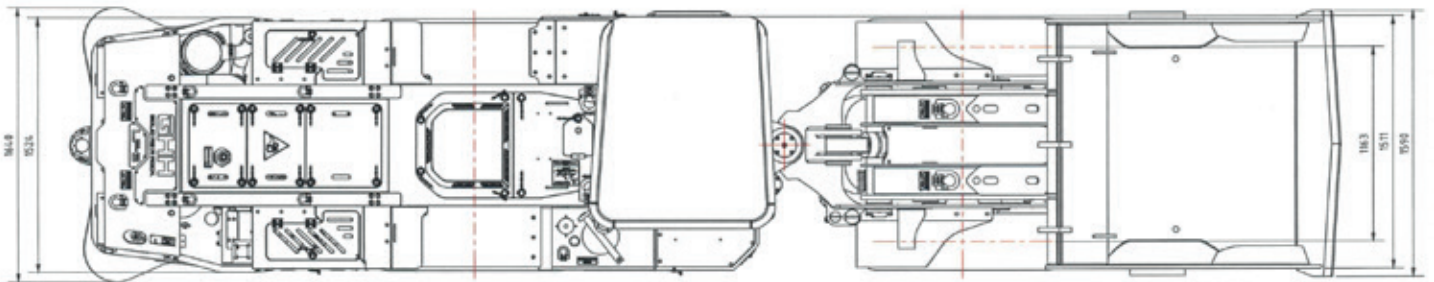
Fire suppression manual / auto	<input type="radio"/>	Diesel Particulate Filter (DPF)	<input type="radio"/>
Ground engaging tools (GET)	<input type="radio"/>	Corrosion protection kit	<input type="radio"/>
CE Certification	<input type="radio"/>	High lift boom	<input type="radio"/>
Collision avoidance system (CAS)	<input type="radio"/>	Spare wheel	<input type="radio"/>

SERVICE OPTIONS

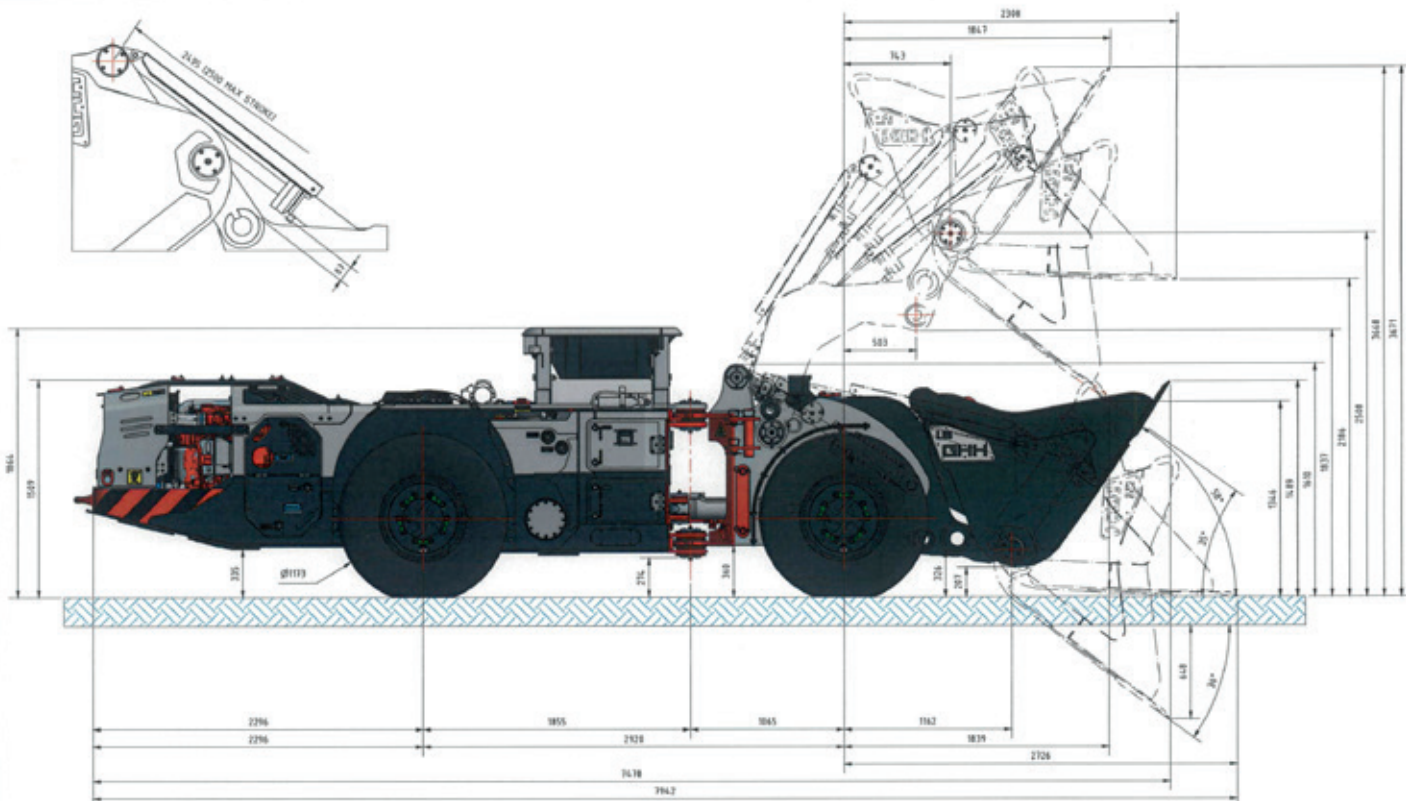
Operator training	<input type="radio"/>	Repair and rebuild kits	<input type="radio"/>
Technical training	<input type="radio"/>	Maintenance / MARC-contracts	<input type="radio"/>
Service tool box	<input type="radio"/>		



Top View



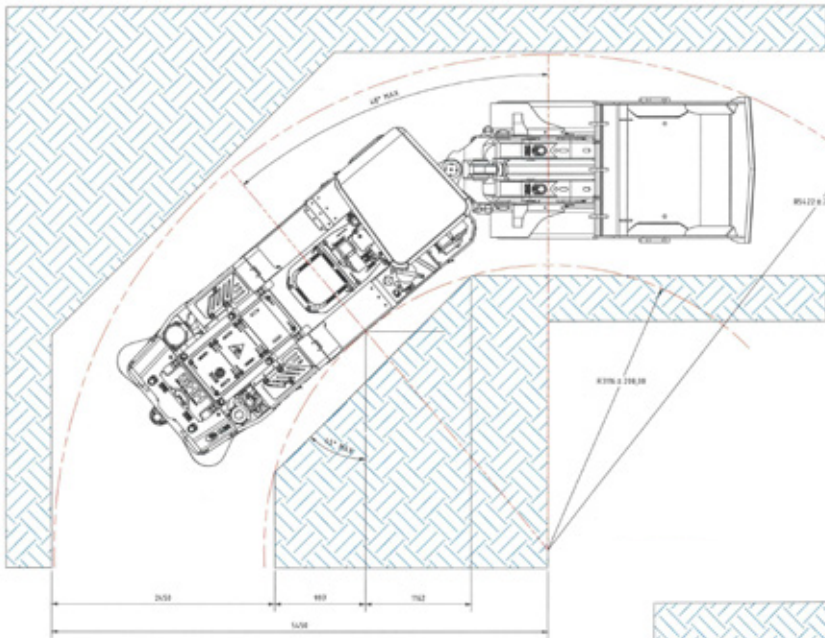
Side View



BUCKET DATA*

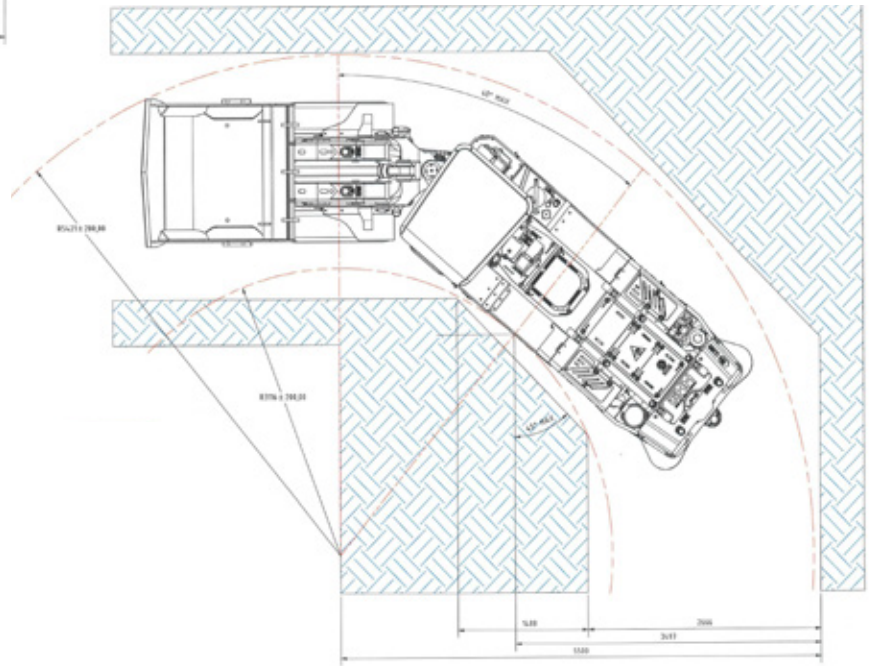
Type	Volume	Width	Material Density
Bare Lip Bucket	1.5m ³	1666 mm	2330 kg/m ³

*further variants on request



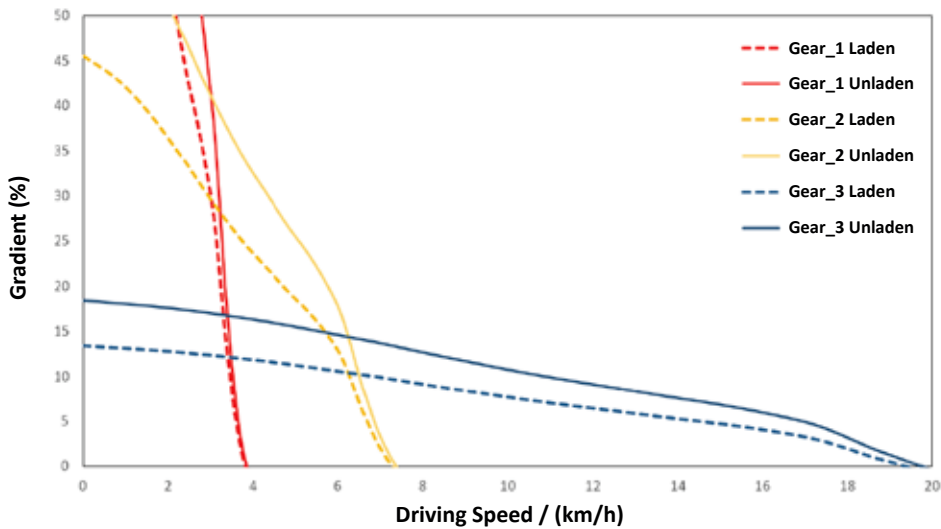
Right Turn

Left Turn



Gradeability Diagram

TRACTIVE EFFORT CURVE (DEUTZ)





GHH

SOLID AS A ROCK

GHH Fahrzeuge GmbH
Emscherstr. 53
45891 Gelsenkirchen

Tel: +49 (0) 209 38907-0
Fax: +49 (0) 209 38907-109

E-Mail: info@ghhrocks.com
Web: www.ghhrocks.com

GHH Mining Machines Ltd
92 Kirschner Road, Beyers Park
Boksburg, 1459

tel +27 11 896 0600
fax +27 11 896 0605

email: sales@ghhmm.co.za, info@ghhmm.co.za
web: www.ghhmm.co.za