

L H D
L F - 3



Main Features

- **Compact and powerful** design for narrow veins
- **Proven technology** for hard rock and tunneling applications
- **Design update** of worldwide well-tried machine
- Extremely robust **GHH frame and system design** resulting in lowest operating cost
- **ROPS/FOPS** approved canopy
- EPA Tier 3 / EU Stage IIIA compliant engine option
- **Customized buckets**

GHH
FAHRZEUGE 
GROUP

Technical Specification*

Main Dimensions	
Length (tramming position)	7 115 mm
Length (loading position)	7 375 mm
Width (at cabin)	1 547 mm
Width (at drive unit)	1 500 mm
Width (at bucket)	1 500 mm
Height, laden (above drive unit)	1 449 mm
Height, laden (above driver's canopy)	1 850 mm
Max. tipping height	778 mm
Standard bucket capacity (SAE, heaped)	1.5 m ³

Engine	
Manufacturer	Deutz F6L914, air cooled
Type	D914L6
Design	Air cooled diesel engine
Power	70 kW / 2 300 min-1
Air intake system	Dry air filter
Exhaust system	Catalyst, silencer
Emission standard	EPA Tier 2 / EU Stage II
Starter power / voltage	4 kW / 24 V
Alternator current / voltage	35 A / 28 V

Engine Option	
Type	Deutz
Power	65 kW / 2 300 min-1
Emission standard	EPA Tier 3 / EU Stage IIIA

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	10 537 kg
Payload capacity	3 500 kg
Front axle, empty	3 831 kg
Rear axle, empty	6 707 kg
Front axle, loaded	11 685 kg
Rear axle, loaded	2 352 kg

Wheels and Tires	
Front wheels	
Rim size	8.5 - 20
Tire size	12.00 - 20
Tire pressure	8.5 ± 0.1 bar
Rear wheels	
Rim size	8.5 - 20
Tire size	12.00 - 20
Tire pressure	4.0 ± 0.1 bar

Brakes (Service and Parking)	
Design	Multi disk spring brake (SAHR)

Axles	
Front axle	Rigid planetary axle
Manufacturer	Dana
Type	133/052
Differential	Standard
Rear axle	Rigid planetary axle, oscillation ±6°
Manufacturer	Dana
Type	133/053
Differential	No-Spin

Lighting System	
Main / reverse headlights	LED
Additional headlights	LED

Dump / Hoist Hydraulic System

Number of hoist cylinders	2
Number of dump cylinders	1
Boom raising time	2.6 s
Lowering time	3.3 s
System Pressure	160 bar

Steering Hydraulic System

Pump displacement volume	30.6 cm ³ /rev
System pressure	200 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	19.7 km/h
Maximum admissible gradient	28%
Maximum tractive force	120 kN

Steering

Design	Hydraulic articulated power steering
Steering angle	± 42°
Outer turn radius	5101 ± 200 mm
Inner turn radius	2912 ± 200 mm

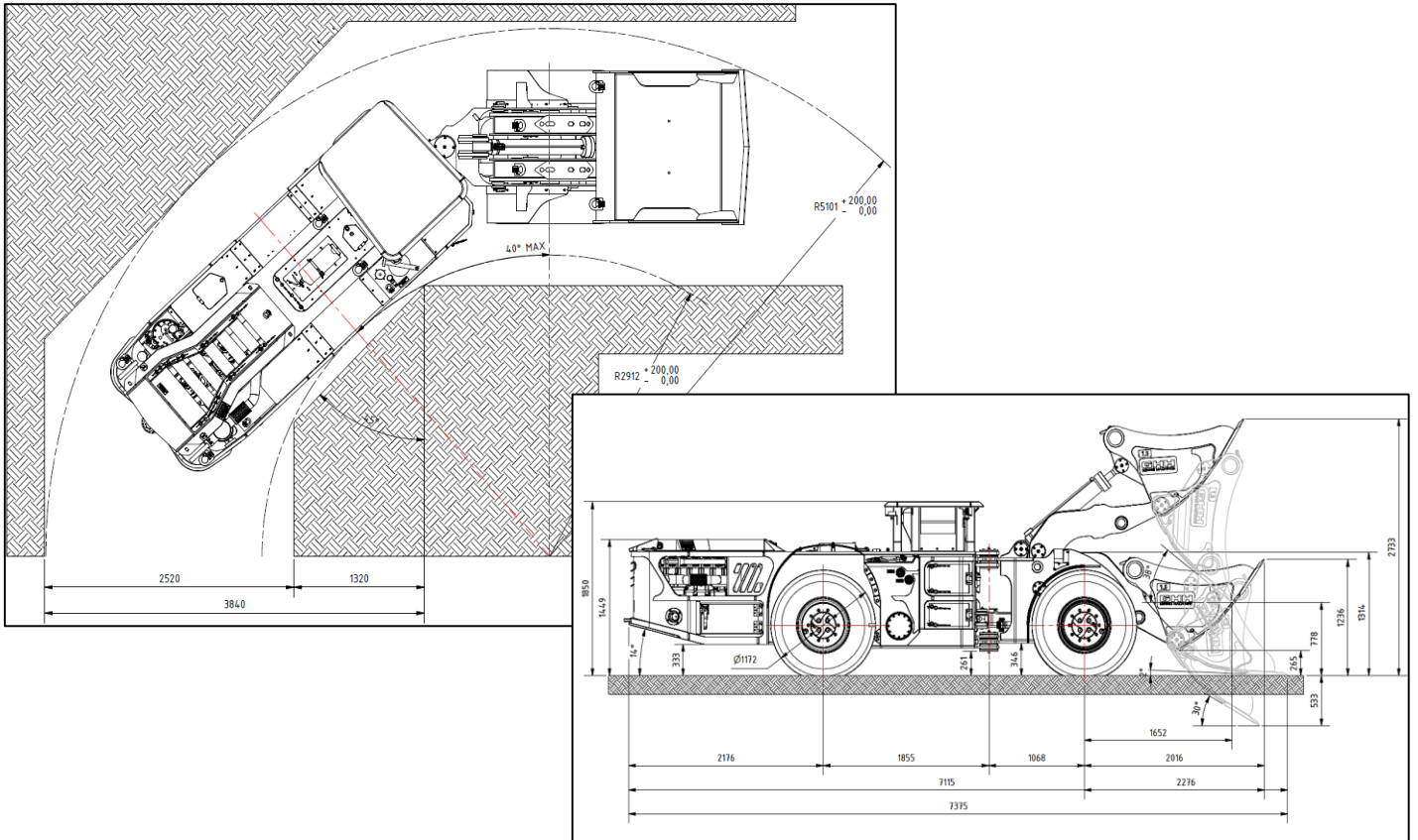


Main Options

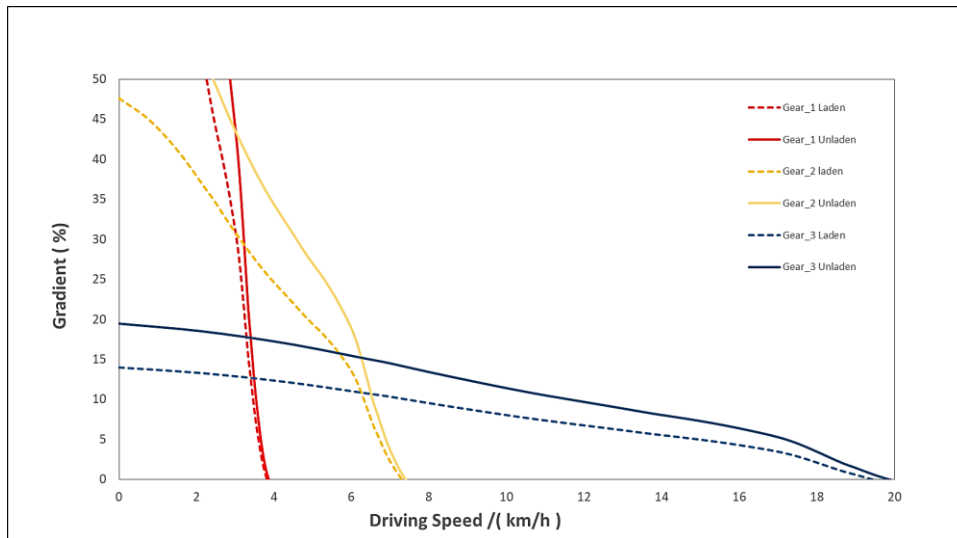
Fire suppression manual / auto	Diesel Particulate Filter (DPF)
Rock earth works	Bucket lips
Payload weighing system	Corrosion protection kit
Collision avoidance system (CAS)	Spare wheel

Service Options

Operator training	Repair and rebuild kits
Technical training	Maintenance / MARC-contracts
Service tool box	



Gradability Diagram



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

