



LF-6

Main Features

- **Compact and powerful design**
- **Hard rock and tunneling applications**
- **Great power to weight ratio**
- **Extremely robust GHH frame and system design** resulting in lowest operating cost
- **Customized buckets** optimized for hard rock available
- Options such as **payload weighing system** or **bucket shaker**
- **Efficient combination with MK-A20 dump truck**

Technical Specification

MAIN DIMENSIONS	AIR COOLED	WATER COOLED
Length (tramming position)	8764 mm	8650 mm
Length (loading position)	9169 mm	8970 mm
Width (at cabin)	2000 mm	2000 mm
Width (at drive unit)	1950 mm	1850 mm
Width (at bucket)	2040 mm	2040 mm
Height, laden (above drive unit)	1670 mm	1698 mm
Height, laden (above driver's canopy)	2200 mm	2322 mm
Max. tipping height	1483 mm	1682 mm
Standard bucket capacity (SAE, heaped)	3.0 m ³	3.0 m ³

ENGINE	AIR COOLED	WATER COOLED
Manufacturer	Deutz	Deutz
Type	F8L413FW	TCD2013L04
Design	Air cooled diesel engine	Water Cooled diesel engine
Power	136 kW / 2300 min ⁻¹	129 kW / 2300 min ⁻¹
Air intake system	Dry air filter	Dry air filter
Exhaust system	Catalyst, silencer	Catalyst, silencer
Starter power / voltage	5.4 kW / 24 V	5 kW / 24 V
Three-phase alternator/voltage	55 A / 28 V	80 A / 28 V
Emission standard		EPA Tier 3 / EU Stage IIIA

ENGINE OPTION (RECOMMENDED FOR HIGH ALTITUDES) WATER COOLED	
Type	BF4M1013FC
Power	125 kW / 2300 min ⁻¹
Emission standard	EPA Tier 2 / EU Stage II

DRIVE TRAIN	
Torque converter	
Manufacturer	Dana
Type	Series C 270
Design	Single stage
Power shift transmission	
Manufacturer	Dana
Type	Series 32000
Design	Four gears forward / reverse

ELECTRICAL EQUIPMENT	
Operating voltage	24 V
Battery	2 x 12 V / 140 Ah

WEIGHTS	AIR COOLED	WATER COOLED
Operating weight	19500 kg	17900 kg
Payload capacity	6000 kg	6000 kg
Front axle, empty	8300 kg	8550 kg
Rear axle, empty	11200 kg	9350 kg
Front axle, loaded	17300 kg	17550 kg
Rear axle, loaded	8200 kg	6350 kg

WHEELS AND TIRES	AIR COOLED	WATER COOLED
Front wheels		
Rim size	14.0 - 25 /1.5	14.0 - 25 /1.5
Tire size	17.5 R 25	17.5 R 25
Tire pressure	7.0 ± 0.1 bar	7.0 ± 0.1 bar
Rear wheels		
Rim size	14.0 - 25 /1.5	14.0 - 25 /1.5
Tire size	17.5 R 25	17.5 R 25
Tire pressure	5.0 ± 0.1 bar	5.0 ± 0.1 bar

BRAKES (SERVICE AND PARKING)	
Design	Multi disk spring brake (SAHR)

AXLES	
Front axle	
Manufacturer	Rigid planetary axle
Type	Kessler
Differential	D91
	No Spin
Rear axle	
Manufacturer	Rigid planetary axle
Type	Kessler
Differential	D91
	Standard
Oscillating angle	±8°

LIGHTING SYSTEM	
Main / reverse headlights	LED
Additional headlights	LED

DUMP / HOIST HYDRAULIC SYSTEM	AIR COOLED	WATER COOLED
Pump displacement volume	41 + 41 cm³/rev	40.5 + 40.5 cm³/rev
System pressure	190 bar	190 bar
Number of hoist cylinders	2	2
Number of dump cylinders	1	1
Boom raising time	5.0 s	5.0 s
Bucket raising, from dumping position	4.1 s	4.5 s

STEERING HYDRAULIC SYSTEM	AIR COOLED	WATER COOLED
Pump displacement volume	41 cm³/rev	40.5 cm³/rev
System pressure	150 bar	150 bar
Number of steering cylinders	2	2



FILLING VOLUMES	AIR COOLED	WATER COOLED
Fuel tank	170 l	200 l
Hydraulic tank	190 l	150 l
Engine with oil filter	20 l	17 l
Coolant		30 l
Torque converter / power shift transmission circuit	29 l	29 l
Front axle differential	16 l	16.1 l
Front axle planetary gear	2 x 4 l	2 x 6.2 l
Rear axle differential	14.5 l	16.1 l
Rear axle planetary gear	2 x 4 l	2 x 6.2 l

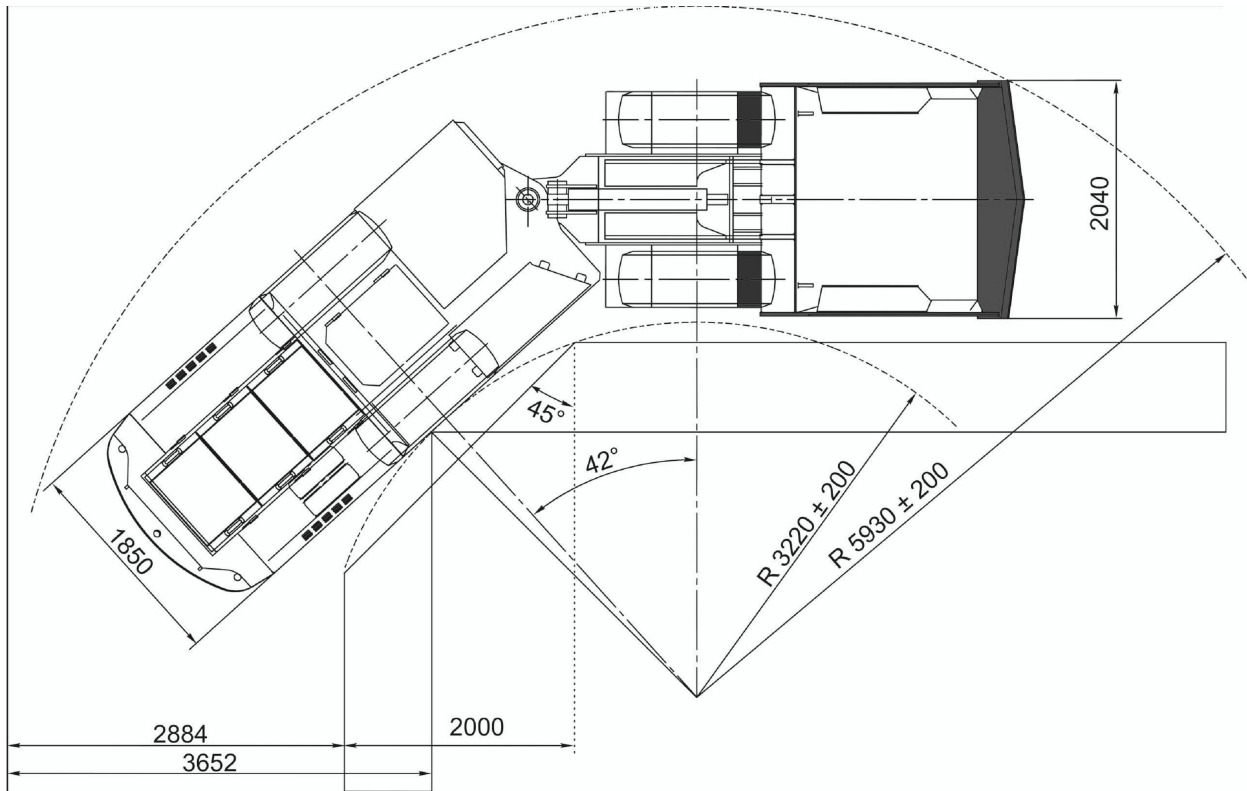
TRAMMING CAPACITIES	AIR COOLED	WATER COOLED
Max. tramming speeds (laden fwd/rev, on level road)		
1st gear	4.0 km/h	4.5 km/h
2nd gear	8.2 km/h	9.3 km/h
3rd gear	14.0 km/h	15.0 km/h
4th gear	22.5 km/h	24.5 km/h
Maximum admissible gradient	25%	25%
Maximum tractive force	182 kN	160 kN

STEERING	AIR COOLED	WATER COOLED
Design	Hydraulic articulated power steering	Hydraulic articulated power steering
Steering angle	± 42°	± 42°
Outer turn radius	6022 ± 200 mm	5930 ± 200 mm
Inner turn radius	3247 ± 200 mm	3220 ± 200 mm

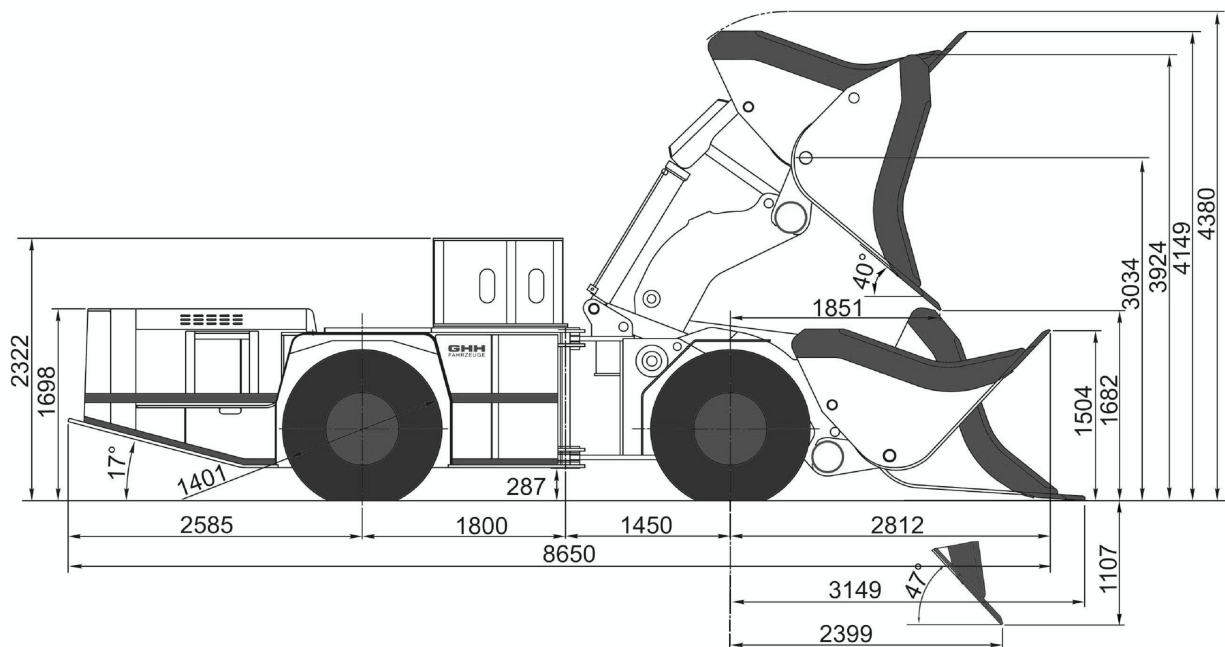


MAIN OPTIONS	
Central lubrication	Open/Closed cabin
Fire suppression, manual / auto	Air condition
Bucket sizes	Heating system
Ejector bucket	Camera system
Side tipping bucket	Collision avoidance system
Ground engagement tools (G.E.T.)	Aggressive environment kit
Armoured bucket teeth	Radio remote control
Bucket shaker	Optional differentials
Payload weighing system	Spare wheel

Right Turn



Side View



BUCKET DATA*

SIDE TIPPIN BUCKET

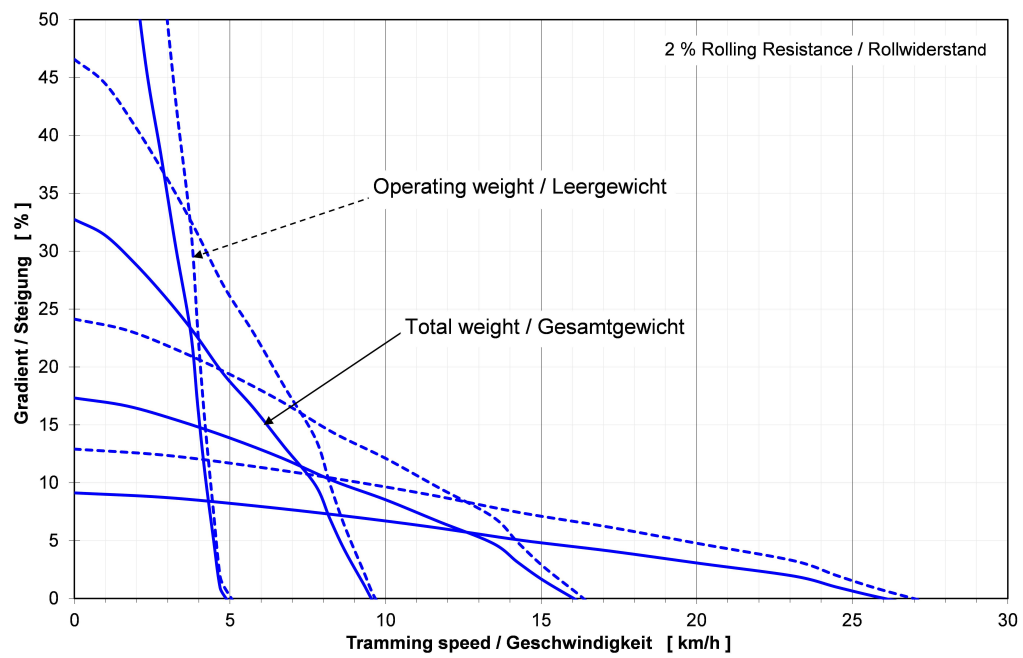
2.4 m³

3.0 m³

3.5 m³

1.9 m³

Gradeability Diagram





GHH

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