

L H D
LF-12H



Main Features

- **Efficient Drive System (EDS)** for highest productivity and reduced maintenance costs
- **Semi-automatic loading mode (TIMO)** simplifies and speeds up loading
- Intuitive **two pedal control** for faster cycle times
- **Hydraulic brake hybrid (HBH)** for recuperation of brake energy
- Advanced **controls** and **condition monitoring** systems
- Extremely robust **GHH frame and system design** resulting in lowest operating cost
- **Load sensing hydraulics** for lower oil temperatures and **higher energy efficiency**

Technical Specification*

Main Dimensions

Length (tramming position)	11 640 mm
Length (loading position)	11 954 mm
Width (at cabin)	3 224 mm
Width (at drive unit)	3 180 mm
Width (at bucket)	3 700 mm
Height, laden (above drive unit)	1 837 mm
Height, laden (above driver's canopy)	2 723 mm
Max. tipping height	2 097 mm
Bucket capacity (SAE, heaped)	8.7 m ³

Engine

Manufacturer	Deutz
Type	TCD 7.8L6
Design	Water cooled diesel engine
Power	245 kW / 2 000 min ⁻¹
Air intake system	Dry air filter
Exhaust system	DPF
Starter power / voltage	6.6 kW / 24 V
Alternator current / voltage	80 A / 28 V
Emission standard	COM IIIB

Drive Train

Pump distribution gearbox

Manufacturer	Stiebel
Type	4384
Design	Helical gearbox

Axle distribution gearbox

Manufacturer	Rögelberg
Type	6127
Design	Helical gearbox

Electrical Equipment

Operating voltage	24 V
Battery	2 x 12 V / 50 Ah

Weights

Deadweight	41 316 kg
Payload	12 300 kg
Front axle load, unladen	15 519 kg
Rear axle, unladen	25 797 kg
Front axle, laden	34 685 kg
Rear axle, laden	18 931 kg

Wheels and Tires

Front wheels

Rim size	22.00 - 29 / 3
Tire size	26.5 R 29
Tire pressure	6.5 ± 0.1 bar

Rear wheels

Rim size	22.00 - 29 / 3
Tire size	26.5 R 29
Tire pressure	4.5 ± 0.1 bar

Brakes (Service and Parking)

Design	Multi disk spring brake (SAHR)
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Axles

Front axle

Manufacturer	Kessler
Type	D106
Differential	Standard

Rear axle

Manufacturer	Kessler
Type	D106
Differential	Standard

Lighting System

Main / reverse headlights	75 / 70 W
Additional headlights	70 W

Dump / Hoist Hydraulic System

Pump displacement volume	45 + 28 cm ³ /rev
System pressure	215 bar
Number of hoist cylinders	2
Number of dump cylinders	1
Boom raising time	6.5 s
Bucket raising, from dumping position	5.0 s

Steering Hydraulic System

Pump displacement volume	63 cm ³ /rev
System pressure	215 bar
Number of steering cylinders	2



Tramming Capacities

Max. tramming speed (laden fwd/rev, on level road)	17 km/h
Maximum admissible gradient	28%
Max. transverse slope	15%
Max. tractive force	320 kN

Steering

Design	Swivel joint hydr. power steering
Steering angle	± 40°
Outer turn radius	8 246 mm
Inner turn radius	3 897 mm

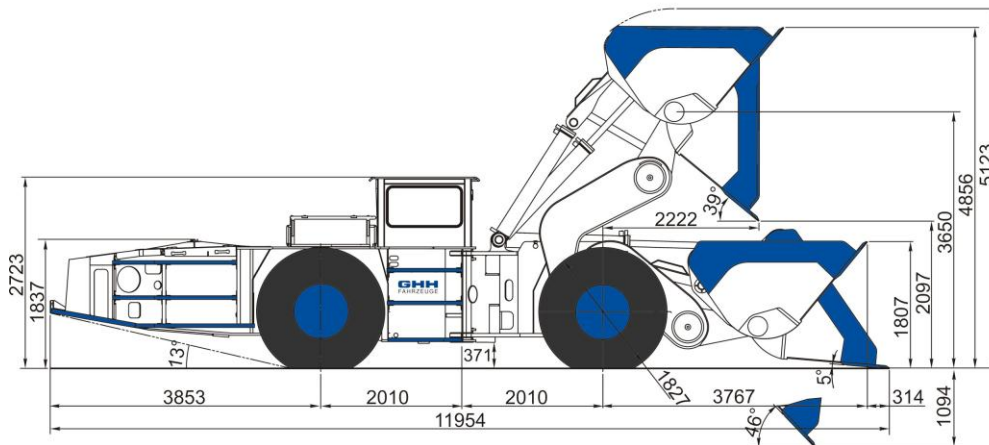
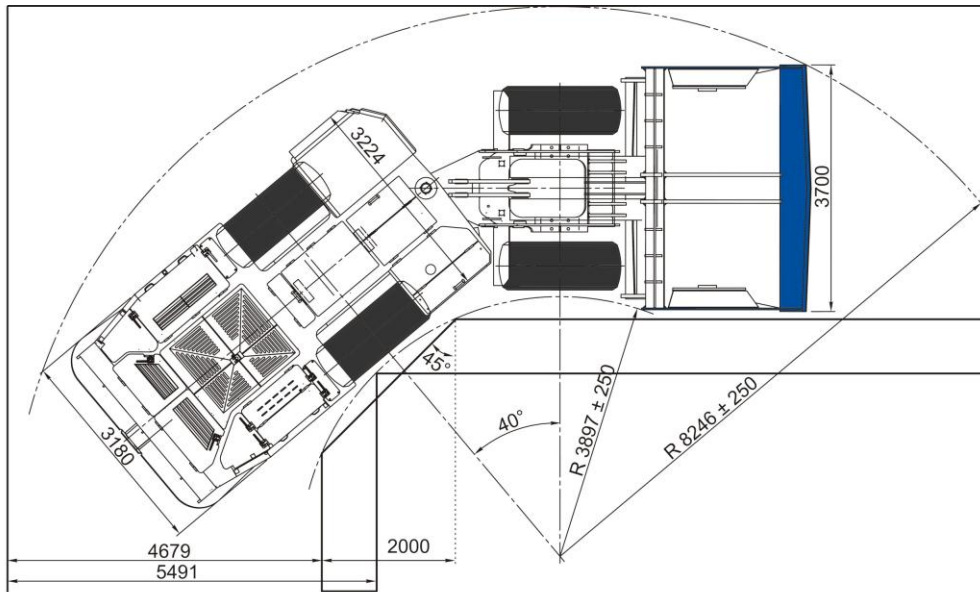


Filling Volumes

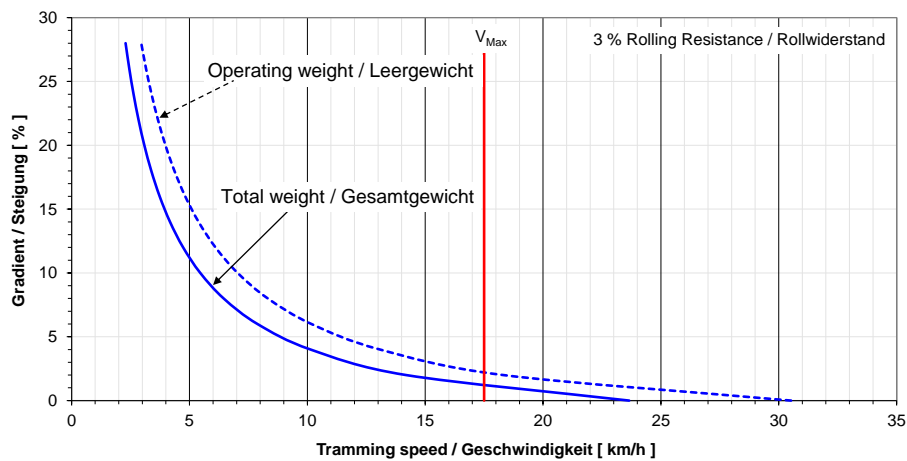
Fuel tank	530 l
Hydraulic tank	590 l
Engine with oil filter	approx. 20 l
Coolant	approx. 45 l
Front axle differential	59 l
Front axle planetary	2 x 6.0 l
Rear axle differential	59 l
Rear axle planetary	2 x 6.0 l
Pump distribution gearbox	6.4 l
Axle distribution gearbox	8.0 l

Options

Central lubrication system	Camera system
Fire suppression manual / auto	Collision avoidance systems
Spare wheel	Air condition
Bucket shaker	Heating system
Payload weighing system	Radio remote control



Gradeability Diagram



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