

LF-19 23

Main Features

- Efficient drive system (EDS) for highest productivity and reduced maintenance cost
- Battery power onboard to cover peak loads and for relocating to the next working section
- 250m cable length for great operating radius
- Load sensing hydraulics for lower oil temperatures and higher energy efficiency
- Extremely robust frame and system design resulting in lowest operating cost

- Intuitive three pedal control for accurate driving and loading
- Advanced controls and condition monitoring systems
- Ergonomic ROPS/FOPS safety cabin with large legroom, excellent visibility and intuitive control
- All daily maintenance points from ground level
- Optional ride control, payload weighing system, bucket shaker and automatic support of loading

Technical Specification

MAIN DIMENSIONS	
Length (tramming position)	13 653 mm
Length (loading position)	13 957 mm
Width (at cabin)	3 458 mm
Width (at drive unit)	3 352 mm
Width (at bucket)	4 000 mm
Height, laden (above drive unit)	2 130 mm
Height, laden (above driver's canopy)	2 620 mm
Max. tipping height	2 038 mm
Bucket capacity (SAE, heaped)	7 to 12,9 m ³

AUXILLARY MOTORS	
Manufacturer	Aradex
Туре	VM600M-18W0134
Continuous Torque	680 Nm @1950rpm
Continuous Power	146 kW
Peak Power	300 kW/1340Nm for 1 minute



CABLE	
Cable length	250 m
Cable diameter	51.8 mm
Cable reel with spooling device	

27.9 kWh
LTO 280
46 Ah
607.2 VDC
276 A (6C)
400 A (10 s.)
480 kg
1547 x 975 x 315 mm
Liquid
CAN
18 - 32 VDC
< 470 mW
< 400 uA
IP 67

WEIGHTS	
Operating weight	62 400 kg
Payload capacity	19 000 kg
Front axle, empty	29 730 kg
Rear axle, empty	32 670 kg
Front axle, loaded	59 980 kg
Rear axle, loaded	21 420 kg

TRACTION MOTORS	
Manufacturer	Schwarz/Aradex
Туре	2 x MAKOW 250
Continuous Torque	1840 Nm
Peak Torque	2700 Nm
Continuous Power	132 kW
Peak Power	2 x 180 kW

ELECTRICAL SYSTEM	
Voltage	24 V
High voltage	1000 V
Low voltage batteries	2 x 12 V/170 Ah
Lockable main switch	On ground level
3x emergency stop button	In the cabin Rear left side Rear right side

LIGHTING SYSTEM		
Main / reverse headlights	LED	
Additional headlights and position lights	LED	

WHEELS AND TIRES	
Front wheels	
Rim size	28.00 - 33 / 3.5
Tire size	875/65R33 RL-3S HI-STAB ** 224A2 6S TL
Tire pressure	7.5 bar
Rear wheels	
Rim size	28.00 - 33 / 3.5
Tire size	875/65R33 RL-3S HI-STAB ** 224A2 6S TL
Tire pressure	7.5 bar

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



GHH Group GmbH • ghhrocks.com • info@ghhrocks.com • +49 209-38907-0 or sales@ghhrm.co.za • +27 11 896 0600

AXLES	
Front axle	Rigid planetary axle
Manufacturer	Kessler
Туре	D111
Differential	Standard
Rear axle	Rigid planetary axle
Manufacturer	Kessler
Туре	D111
Differential	Standard
Oscillating angle	±8°

DUMP / HOIST HYDRAULIC SYSTEM	
System pressure	250 bar
Number of hoist cylinders	2
Number of dump cylinders	1
Boom raising time	11 s
Boom lowering time	6 s
Tipping time	5 s

STEERING HYDRAULIC SYSTEM	
System pressure	210 bar
Number of steering cylinders	2



STEERING	
Design	Hydraulic articulated power steering
Steering angle	± 40°
Outer turn radius	9 153 ± 200 mm
Inner turn radius	4 336 ± 200 mm

FILLING VOLUMES	
Hydraulic tank	250 litre
Water cooling (power system)	125 litre
water cooling (power system)	125 1110

* Please note that machine dimensions may change slightly based on specific options selected.

TRAMMING CAPACITIES

Max. tramming speeds (laden fwd/rev, on level road)		
Single stage transmission	14 km/h	
Maximum tractive effort	390 kN	
Maximum admissible gradient	28 %	
Breakout force (lift/tilt)	280 kN	

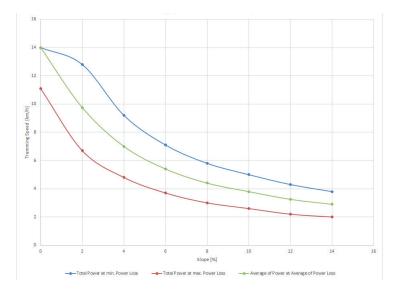
OPERATORS COMPARTMENTFOPs approved EN ISO 3471ROPs approved EN ISO 3449Emergency exit via side windowStandard height cabin2 820 mmMP3 player, bottle holder, self-rescuer holderClosed cabinAir conditioner3 point seat beltCabin height adjustable to lower position2 620 mmRotary seat



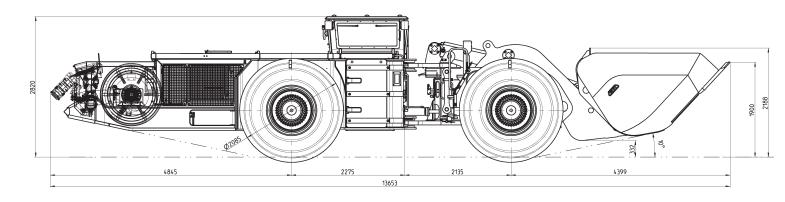
MAIN OPTIONS

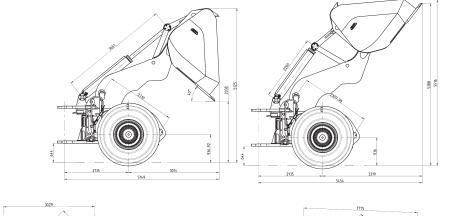
Central lubrication system	Electric brake release pump
Camera system	Tire pressure monitoring
Spare wheel	Remote Monitoring System (WiFi-link)
Different bucket sizes	GHH inSiTE digital Analytics
Automatic loading support (TIMO)	Collision avoidance system interface
Payload weighing system	Optional differential combina- tions available
Bucket shaker	Disassembly for shaft transport
Ride control system	Lower cabin (200 mm spacer removed)
Air conditioner / Heating	Open cabin

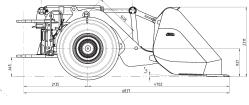
Gradeability

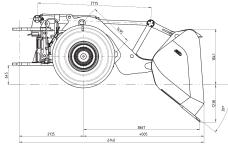


Side View



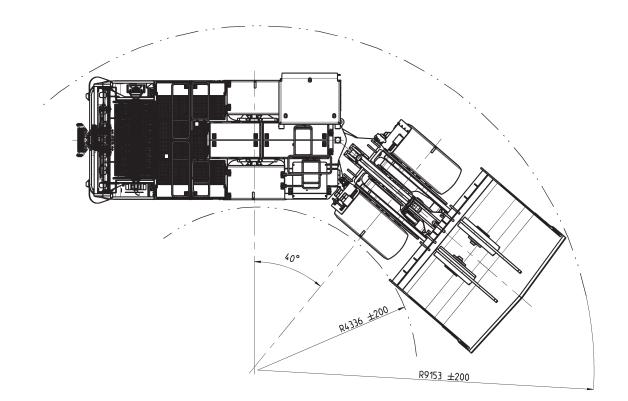




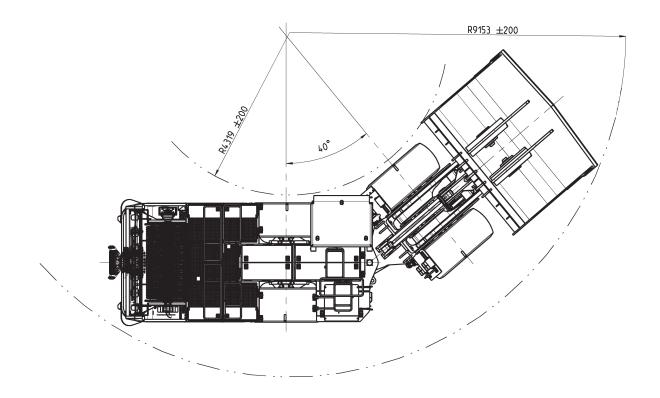




Right Turn



Left Turn







GHH Fahrzeuge GmbH Emscherstr. 53 45891 Gelsenkirchen

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

E-Mail: info@ghh-fahrzeuge.de Web: www.ghh-fahrzeuge.de 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