

L H D
LF - 1 4



Main Features

- **Compact and powerful design**
- **Best power to weight ratio of its class**
- **Proven technology**
- **Extremely robust GHH frame and system design** resulting in lowest operating cost
- **Z-link** optimized for loading of dump trucks
- **Customized buckets** with GET
- **Ergonomic ROPS/FOPS safety cabin** with large legroom, excellent visibility and intuitive controls
- **All daily maintenance points** from ground level
- **Centralized service points**
- **Ride control, payload weighing system** and **bucket shaker**

GHH
FAHRZEUGE



GROUP

Technical Specification*

Main Dimensions

| | |
|--|--------------------|
| Length (traming position) | 10 771 mm |
| Length (loading position) | 11 093 mm |
| Width (at cabin) | 2 700 mm |
| Width (at drive unit) | 2 600 mm |
| Width (at bucket) | 2 800 mm |
| Height, laden (above drive unit) | 1 978 mm |
| Height, laden (above driver's canopy) | 2 477 mm |
| Max. tipping height | 2 428 mm |
| Standard bucket capacity (SAE, heaped) | 5.4 m ³ |

Engine

| | |
|------------------------------|--|
| Manufacturer | Volvo |
| Type | Volvo TAD1351 (EPA Tier 3 / EU Stage IIIA) |
| Design | Water cooled diesel engine |
| Power | 285 kW / 1 900 min ⁻¹ |
| Air intake system | Dry air filter |
| Exhaust system | Catalyst, silencer |
| Starter power / voltage | 7.0 kW / 24 V |
| Alternator current / voltage | 110 A / 28 V |

| | |
|----------------------|---|
| Engine option | Volvo TAD1371VE (EPA Tier 4 / EU Stage IV) |
| Power | 285 kW / 1 900 min ⁻¹ |
| Exhaust system | SCR |

Drive Train

Transmission

| | |
|--------------|---|
| Manufacturer | Dana |
| Type | TE 32 |
| Design | Single stage converter with lock-up Four gears forward / reverse |

Upbox

| | |
|--------------|-----------|
| Manufacturer | Rögelberg |
|--------------|-----------|

Electrical Equipment

| | |
|-------------------|-------------------|
| Operating voltage | 24 V |
| Battery | 2 x 12 V / 180 Ah |

Weights

| | |
|--------------------|-----------|
| Operating weight | 38 500 kg |
| Payload capacity | 14 000 kg |
| Front axle, empty | 17 205 kg |
| Rear axle, empty | 21 795 kg |
| Front axle, loaded | 39 112 kg |
| Rear axle, loaded | 13 888 kg |

Wheels and Tires

Front wheels

| | |
|---------------|------------------|
| Rim size | 22.00 - 25 / 3.0 |
| Tire size | 26.5 - 25 |
| Tire pressure | 7.0 ± 0.1 bar |

Rear wheels

| | |
|---------------|------------------|
| Rim size | 22.00 - 25 / 3.0 |
| Tire size | 26.5 - 25 |
| Tire pressure | 5.0 ± 0.1 bar |

Brakes (Service and Parking)

| | |
|--------|--------------------------------|
| Design | Multi disk spring brake (SAHR) |
|--------|--------------------------------|

Axles

| | |
|-------------------|----------------------|
| Front axle | Rigid planetary axle |
| Manufacturer | Kessler |
| Type | D106 NLB-FS |
| Differential | Lim. slip |
| Rear axle | Rigid planetary axle |
| Manufacturer | Kessler |
| Type | D106 NLB-FS |
| Differential | Lim. slip |
| Oscillating angle | ±8° |

Lighting System

| | |
|---|-----|
| Main / reverse headlights | LED |
| Additional headlights and position lights | LED |

Dump / Hoist Hydraulic System

| | |
|---------------------------|---------|
| System pressure | 280 bar |
| Number of hoist cylinders | 2 |
| Number of dump cylinders | 1 |
| Boom raising time | 7.0 s |
| Boom lowering time | 4.2 s |
| Tipping time | 2.2 s |

Steering Hydraulic System

| | |
|------------------------------|---------|
| System pressure | 280 bar |
| Number of steering cylinders | 2 |

Filling Volumes

| | |
|----------------|-------|
| Fuel tank | 410 l |
| Hydraulic tank | 400 l |

**Tramming Capacities**

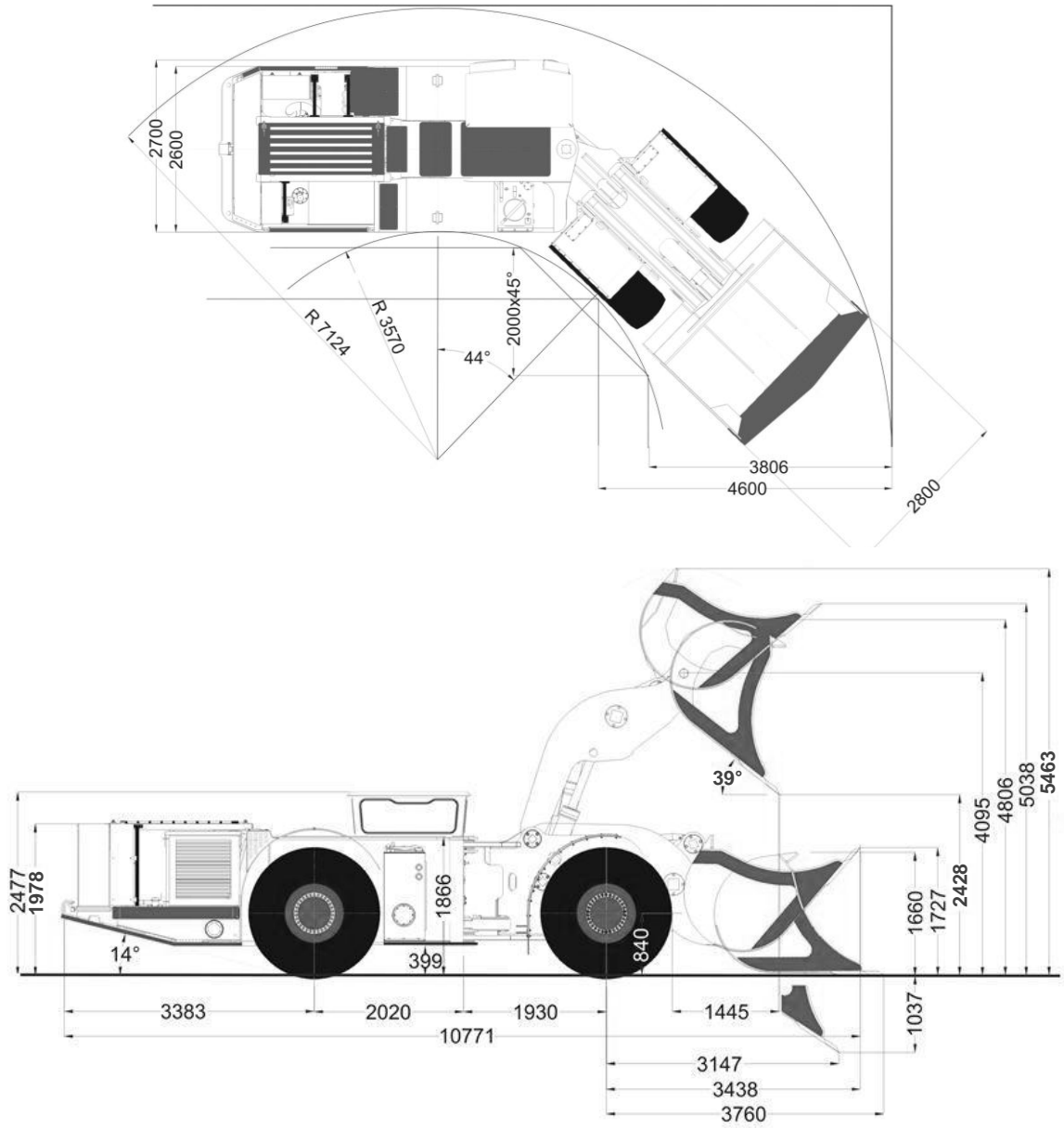
| | |
|---|-----------------|
| Max. tramming speeds (laden fwd/rev, on level road) | |
| 1st gear | 4.7 km/h |
| 2nd gear | 8.7 km/h |
| 3rd gear | 14.5 km/h |
| 4th gear | 26.3 km/h |
| Maximum tractive effort | 356 kN |
| Maximum admissible gradient | 25% |
| Breakout force (lift/tilt) | 260 kN / 218 kN |

Steering

| | |
|-------------------|--------------------------------------|
| Design | Hydraulic articulated power steering |
| Steering angle | ± 44° |
| Outer turn radius | 7 124 mm |
| Inner turn radius | 3 570 mm |

Main Options

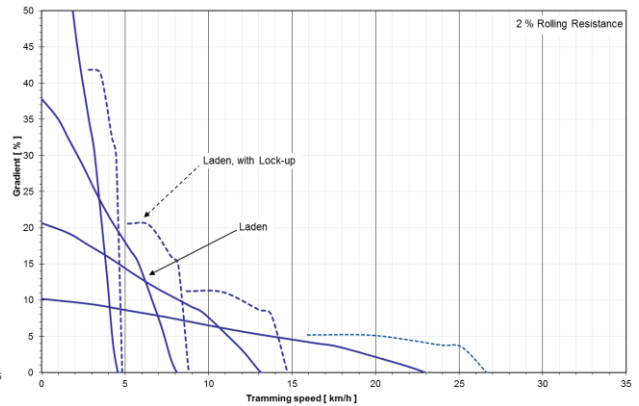
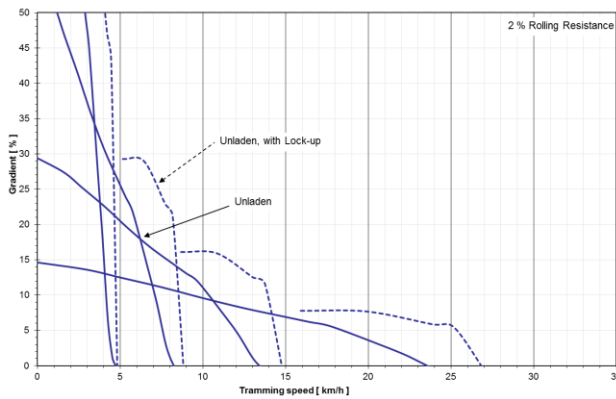
| | |
|---|--|
| Central lubrication system | Emergency steering pump |
| Fire suppression systems (manual / auto) Ansul / Protecfire with automatic engine shut down | Electric brake release pump |
| Spare wheel | Wiggins fuel fill system |
| Different bucket sizes | Wiggins fill set |
| Ejector bucket | Manual/electric filling pump for hydraulic oil |
| Camera system | Tire pressure monitoring |
| Ground engagement tools (G.E.T) | Remote Monitoring System (WiFi-link) |
| Payload weighing system | Corrosion protection kit |
| Bucket shaker | Low temperature kit |
| Ride control system | Radio remote control |
| Air condition / Heating | Brake release tow hook |
| Collision avoidance system | Optional differential combinations available |
| Disassembly for shaft transport | |



Gradeability

Unladen

Laden



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

