LF-7

Main Features

- Improved operator **safety, ergonomics** and **comfort**
- Vehicle height **2 200 mm**
- **Best in class loading performance**
- **ROPS / FOPS** certified canopy
- **Enclosed cabin** for better operator comfort, optional open canopy available
- Extremely robust **frame and system design** resulting in lowest operating cost
- Swing out oil cooler for ease of maintenance
- **Customized buckets** available optimized for hardrock applications
- **GET available** mechanical or weld on
- Excellent **Traction**
- **Separate** brake flushing circuit
- **PDS** (Personnel Detection System) interface
- **CANBUS** electronics

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Technical Specifications*

Based on 3.6m³

MAIN DIMENSIONS	
Length (tramming position)	8 800 mm
Length (loading position)	9 161 mm
Width (at cabin)	2 314 mm
Width (at drive unit)	1 999 mm
Width (at bucket)	2 240 mm
Height, laden (above drive unit)	1 591 mm
Height, laden (above driver's canopy)	2 200 mm
Max. tipping height	2 039 mm
Bucket capacity **(SAE heaped/ SG Specific)**	3.6 m³

ENGINE	
Manufacturer	Cummins
Type	QSB 6.7
Design	Water cooled diesel engine
Power	164 kW @ 2200 RPM
Air intake system	Dry air filter
Exhaust system	Silencer and Catalyzer
Emission standard	Tier 3, 4, EU Stage 5
Starter	5.5 kW, 24 V

DRIVE TRAIN	
Transverter	
Manufacturer	DANA
Type	TE14
Design	Four gears forward and four gears reverse
Upbox	
Manufacturer	Rogelberg
Type	Transfer Box
Design	Gearbox with ratio 1 and offset 400mm

WEIGHTS	
Operating weight	18 874 kg
Payload capacity	7 000 kg
Front axle load, empty	8 649 kg
Rear axle load, empty	10 225 kg
Front axle load, loaded	19 138 kg
Rear axle load, loaded	6 736 kg

WHEELS AND TIRES	
Front wheels	
Rim size	17.0 - 20 / 2.0
Tire size	18.00 x 25
Tire pressure	5.25 ± 0.1 bar
Rear wheels	
Rim size	17.0 - 20 / 2.0
Tire size	18.00 x 25
Tire pressure	5.25 ± 0.1 bar

BRAKES	
Design **Service**	Multi disk spring brake (SAHR) Hydr. actuated, ext. cooled
Design **Parking**	Multi disk spring brake (SAHR) Hydr. actuated, ext. cooled

AXLES	
Front axle	Rigid Planetary axle
Manufacturer	DANA
Type	17D
Differential	Limited Slip
Rear axle	Oscillating axle +/-8 °
Manufacturer	DANA
Type	17D
Differential	Limited Slip

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ELECTRICAL EQUIPMENT	
Operating voltage	24 V
Battery	2 x 12 V, 145 Ah
Canbus Controller	Standard
CAS/PDS Interface	Standard
I-Button Ignition	Standard
Reverse camera	Standard
Electrical brake sensors	Standard

DUMP / HOIST HYDRAULIC SYSTEM	
Pump displacement volume	64 cm³/rev
System pressure at dump cylinder	215 bar
System pressure at hoist cylinder	215 bar
Number of hoist cylinders	2
Number of dump cylinders	1
Boom raising time	5.0 s
Dumping time	2.0 s

STEERING HYDRAULIC SYSTEM	
Pump displacement volume	36 + 64 cm³/rev
System pressure	200 bar
Number of steering cylinders	2

FILLING VOLUMES	
Hydraulic tank	200 Liters
Fuel tank capacity	210 Liters

LIGHTING SYSTEM	
Main headlights-LED Type x 3	75 W
Reverse lights-LED Type x 3rs	
Navigation lights x 4	Red and Green
Spot Light LED x2	17 W

TRAMMING CAPACITIES	
Max. tramming speed (laden fwd/rev, on level road)	
1st gear	5.1+-0.2km/h
2nd gear	10.1+-0.2km/h
3rd gear	17.0+-0.2km/h
4th gear	Option
Ambient operating temperatures	-20 to + 53C
Standard operating altitude(Tier 3)	-1,500m to + 4,000m
Standard operating altitude(Tier 5)	-1,500m to + 4,000m
Max. slope	± 25%
Max. cross slope	± 15%

STEERING CAPACITIES	
Design	Hydraulic articulated joystick steering
Steering angle	± 42.5°
Outer turn radius right	6 223 ± 200mm
Inner turn radius right	3 289 ± 200mm
Outer turn radius left	6 225 ± 200mm
Inner turn radius left	3 216 ± 200mm

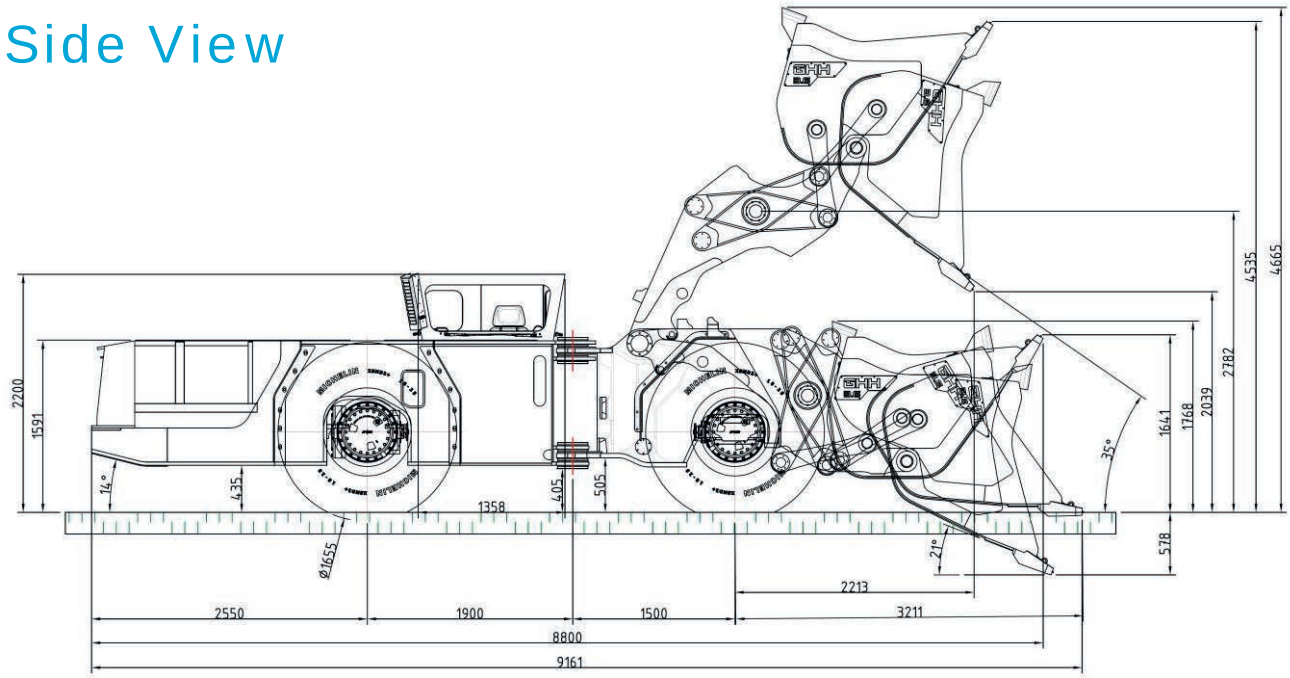
OPTIONS	
Automation ready	Load weighing (part of std build)
Brake release tow hook	Tire pressure monitoring
Ride control	Bucket shaker
Wiggins fast fill (engine, hyd & transmission)	Wiggins fast fill (fuel)
Electric brake release pump	Aggressive Water Kit
2 pac paint	Camera system
Bucket interlock	Electric hydraulic fill pump
Fire suppression system	EU Certified
Emergency steering (CEN)	MSHA Certified
GET System - mechanical or weld-on half arrow	Jump start interface
Spare rim	Spare rim & tire
PDS	Open cabin

BUCKET OPTIONS	
2.4 m^3	Option with GET
2.9 m^3	Option with GET
3.2 m^3	Option with GET
4.0 m^3	Option with GET

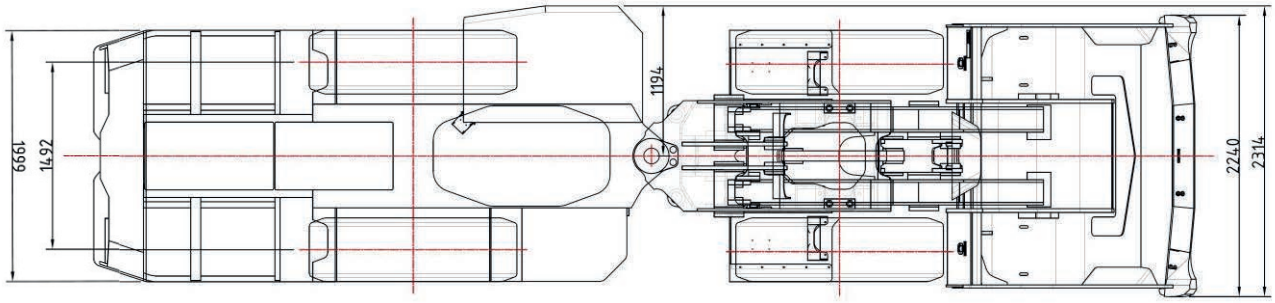
Technical Specifications*

Based on 3.6m³

Side View



Top View



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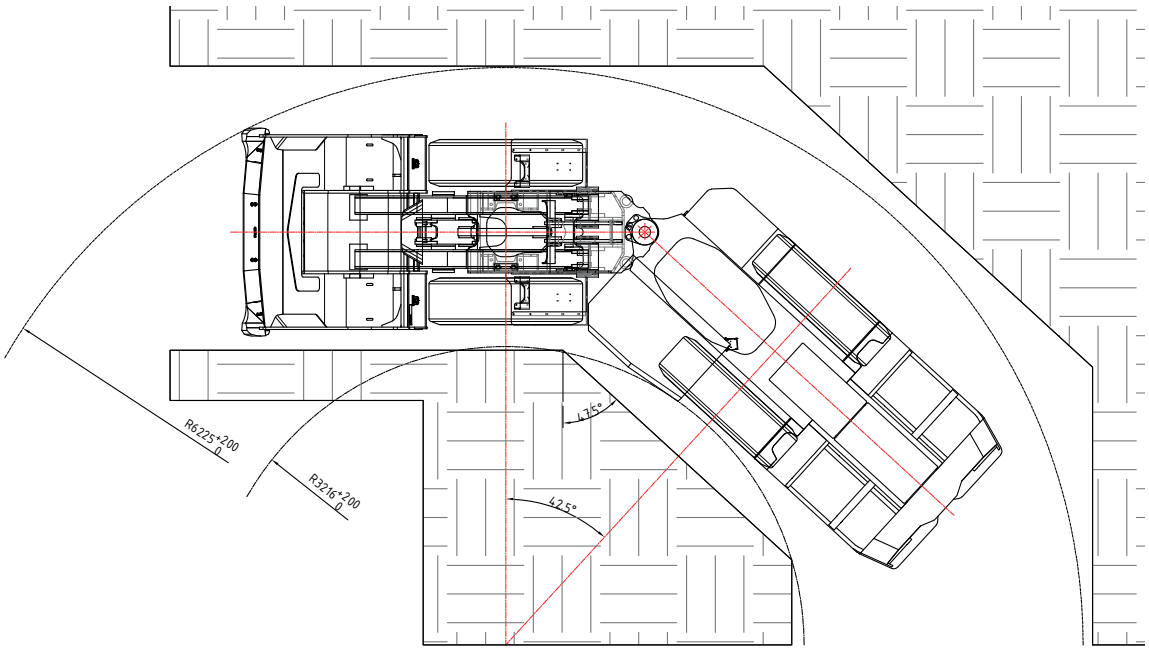
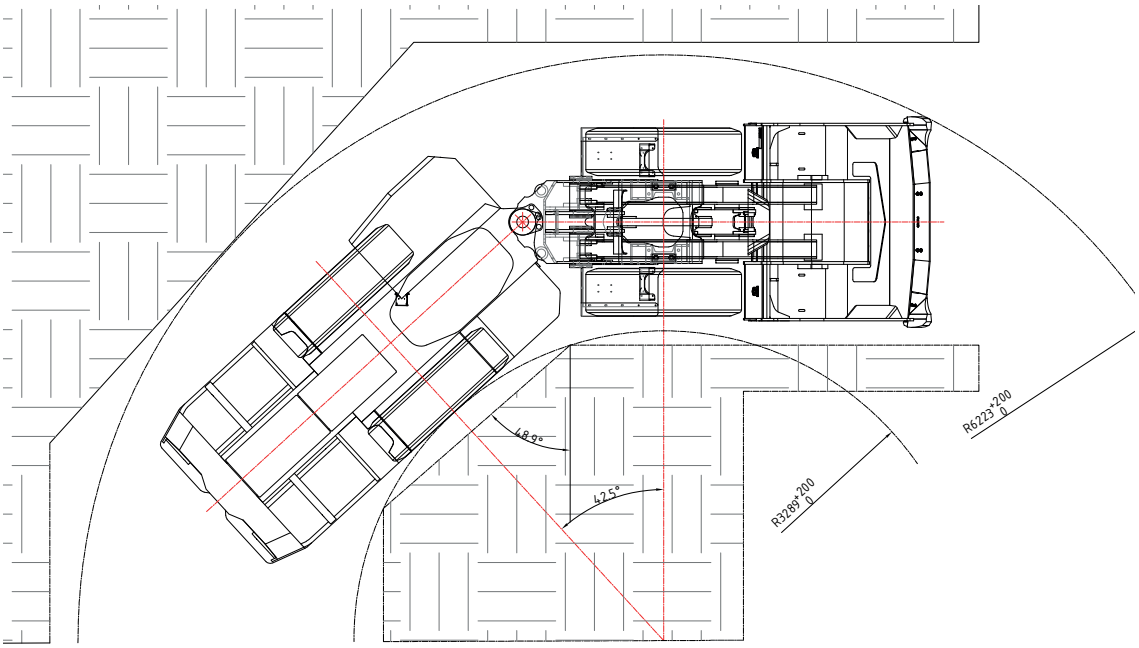
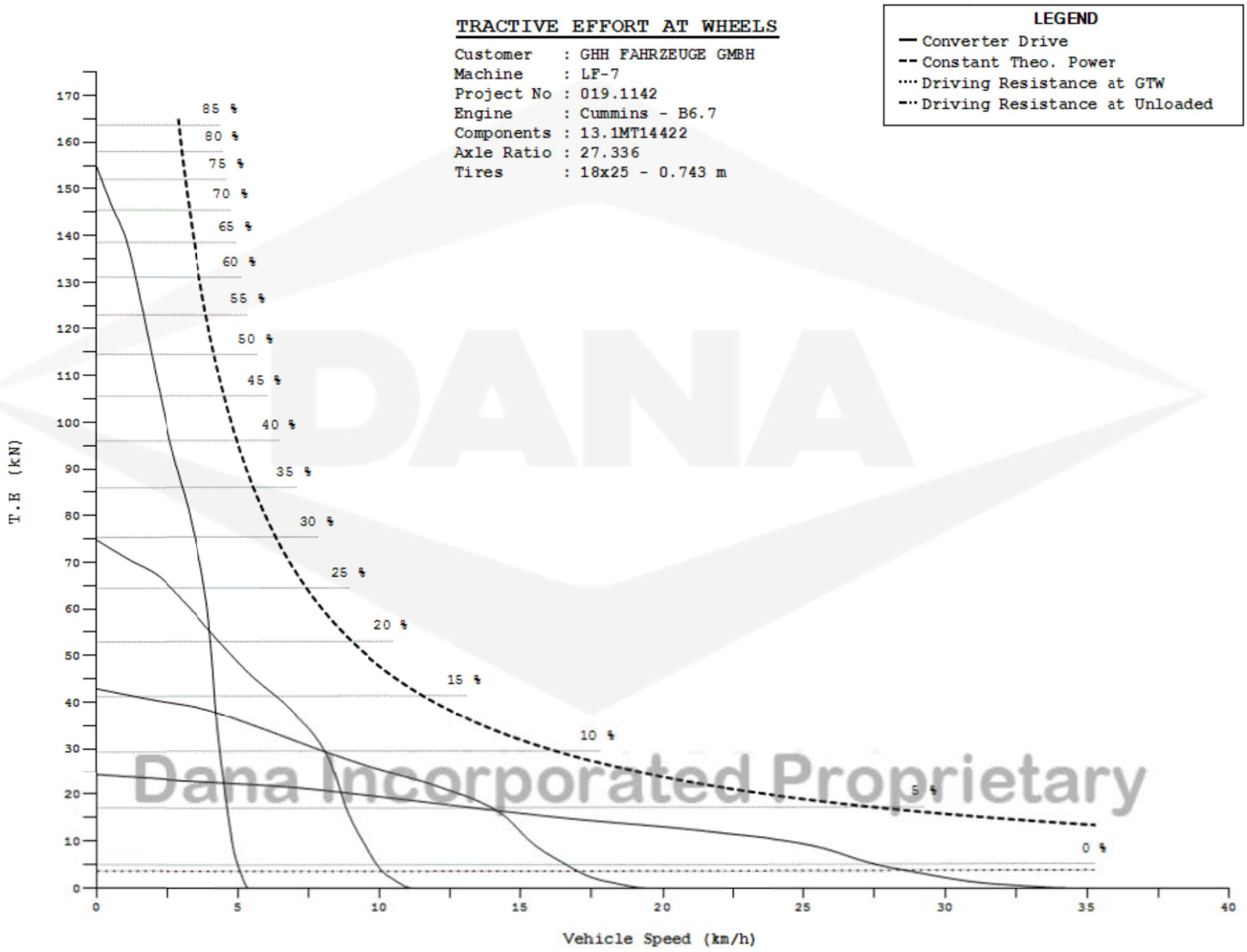
Left Turn



Right Turn



Gradability Diagram



Dana Incorporated Proprietary

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