



MK-A20

Main Features

- Compact, simple and powerful design
- Hard rock and tunneling applications
- Great power to weight ratio
- ROPS / FOPS certified cabin
- Extremely robust GHH frame and system design resulting in lowest operating cost
- Customized body designs and sizes available
- Proven technology only
- Optimal traction and higher driving comfort thanks to Oscillating articulation

Technical Specification

MAIN DIMENSIONS

Length	9 417 mm
Width (at body)	2 200 mm
Height, laden (at body)	2 149 mm
Height, laden (above cabin)	2 555 mm
Std. body capacity (SAE heaped)	10 m ³
Dump Box range	6,0 m ³ - 12,5 m ³
Outer turn radius	8 165 mm
Inner turn radius	5 023 mm

ENGINE

Manufacturer	Cummins
Type	QSB6.7
Design	Water cooled diesel engine
Power output	194 kW / 2300 min ⁻¹
Air intake system	Dry air filter
Exhaust system	Catalyst, silencer
Starter power / voltage	6,6 kW / 24 V
Alternator current	55 A / 28 V
Emission standard	EPA Tier3 / EU Stage IIIA

ENGINE OPTION

Cummins QSB6.7, 194 kW, EPA Tier4i/EU Stage IIIB, DPF*

Cummins QSB6.7, 209 kW, EPA Tier4f/EU Stage V, DOC/DPF/SCR/ASC*

*requires ultra low sulphur diesel

FUEL

Fuel Tank capacity	280 l	S	O
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BRAKES

Service / Parking / Emergency	SAHR	S	O
Manual brake release pump			
Electric brake release pump			
Neutral brake			

WEIGHTS*

Operating weight	18 955 kg
Payload capacity	20 000 kg
Front axle, empty	14 850 kg
Rear axle, empty	4 105 kg
Front axle, loaded	20 150 kg
Rear axle, loaded	18 850 kg
Total loaded weight	38 955 kg

*Weight is dependent on the selected options

SPEEDS FORWARD & LOADED

1st gear	4,9 km/h
2nd gear	10,1 km/h
3rd gear	17,4 km/h
4th gear	27,2 km/h
Max admissible gradient	25%

DUMP BOX MOTION TIMES

Discharging time	7,0 sec
Dumping angel	62°



CONVERTER

Brand / Type	Dana CL 8 000 with lock up	S	O
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AXLES

Brand / Type	Kessler D81	S	O
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TRANSMISSION

Power shift transmission with 4 forward and 4 reverse gears	S	O
Gear box protection		
Blockout Gears		

S Standard Equipment **O** Optional Equipment



GHH
SOLID AS A ROCK
MK-A20

GHH



MK-A20

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

Technical Specification

TYRES S O

Tyre Size	16,0 - 25
Spare wheel	

CABIN S O

ROPS approved according EN ISO 3471
FOPS approved according to EN ISO 3449
Open cabin
Seat Isri (lap belt)
Closed cabin incl. Windows and isolation
inclinometer in cabin
Ventilation for cabin
Heating
Air conditioning
pressurized cabin H13
12V converter in cabin
Grammer Seat 3pt. Belt, one armrest
Grammer Seat 3pt. Belt, two armrest



SERVICE / MAINTENANCE S O

Centralized lubrication points
Automated central lubrication

ELECTRICAL SYSTEM S O

Voltage	24 V
Batteries	2x12 V/140 Ah
Lockable main switch	
Jump Start interface	
Data-Logger	
Data-Logger and WiFi	



LIGHTS S O

Front lights	LED
Rear lights	LED
Turn signals	
Brake lights	
Rotating beacon	
Additional Working lights	LED

HYDRAULIC SYSTEM S O

System Pressure	150 bar
Hydraulic tank	230 l
Number of steering cylinders	2
Number of dump cylinders	1
Emergency Steering	

S Standard Equipment

O Optional Equipment

Technical Specification

SAFETY FEATURES

S O

Reverse alarm
Emergency stop push buttons according to EN ISO 13850
Frame articulation locking device
Mechanical dump box locking device
Wheel chocks
Side view camera
Mirrors
Rear view camera
Exhaust temperatur warning
Dump Box Interlocking incl. warning signal
Deadman control

FIRE SAFETY

S O

Fire extinguisher	
Additional fire extinguisher	
Fire suppression system	manual
Fire suppression system	automatic

OTHERS

S O

EU certified (CE)
Toolbox
Service manuals in paper

GRADE PERFORMANCE EMPTY

Cummins QSB6.7 (Stage 3A)

Grade [%]	0	5	10,0	14,3	16,6	20
Ratio []		1:20	1:10	1:7	1:6	1:5
1st gear [km/h]	5,0	4,9	4,8	4,8	4,8	4,8
2nd gear [km/h]	10,1	10,0	9,9	9,8	9,7	9,6
3rd gear [km/h]	17,5	17,1	16,8	15,3	12,9	10,1
4th gear [km/h]	29,9	28,8	18,4			

GRADE PERFORMANCE LOADED

Cummins QSB6.7 (Stage 3A)

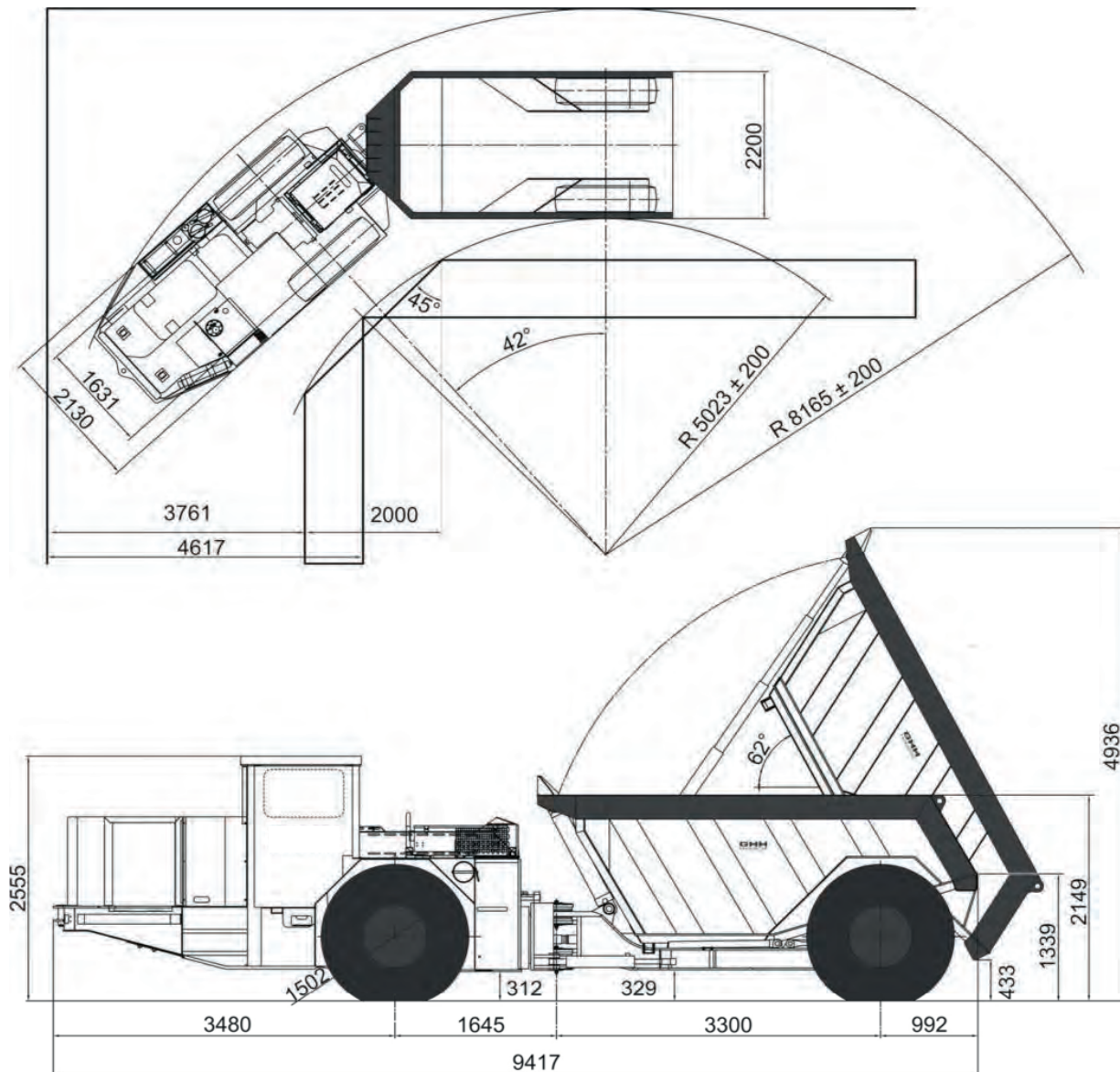
Grade [%]	0	5	10	14,3	16,6	20
Ratio []		1:20	1:10	1:7	1:6	1:5
1st gear [km/h]	4,9	4,8	4,8	4,7	4,7	4,7
2nd gear [km/h]	10,1	9,8	9,6	6,6	5,8	4,7
3rd gear [km/h]	17,4	16,6	8,7			
4th gear [km/h]	27,2					



S Standard Equipment

O Optional Equipment

Dimensions



DUMP BOXES*	Standard					Tailgate
	Volume [m ³]	6	7,5	10	11	12,5
Material density [t/m ³]	3,3	2,6	2	1,8	1,6	1,8
Height dump box [mm]	2149	2149	2149	2149	2379	2149
Width dump box [mm]	2000	2200	2200	2400	2400	2300

*further variants on request



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