

english

GHH
SOLID AS A ROCK



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



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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		S	O
Fuel Tank capacity	280 l		

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

S Standard Equipment **O** Optional Equipment

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

AXLES		S	O
Brand / Type	Kessler D81		

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





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			

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			



SERVICE / MAINTENANCE		S	O
Centralized lubrication points			
Automated central lubrication			

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

100



*further variants on request



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