Specifications

Mercedes-Benz Arocs 5 4148 AK 8x8/4



Model:	Mercedes-Benz Arocs 5
Type:	4148 AK
Axle configuration:	8x8/4
Model:	96423312
Type:	All-wheel-drive chassis

Cab:	M ClassicSpace driver's cab, 2.30 m, 320 mm tunnel
Engine power:	350 kW (476 hp)
Wheelbase:	4,850 mm
Gross vehicle weight:	42,000 kg

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Configuration

Paint

Cab:	MB 3626	Ruby Red 88

Vehicle equipment

Duplicate of Level 1 group code	
DUP0	European standard
Chassis version V1B	
	Arocs
V1Z	GROUNDER
C2T	Wheelbase 4850 mm
Axle load distribution	
W8F	Weight variant 42.0 t (8.0/8.0/13.0/13.0)
Engine	
M3C	OM 471,R6 engine, 12.8 L, 350 kW (476 hp), 2300 Nm
M5D	3rd generation OM 471 engine
Z5E	OM 471
M4X	Engine compliant with the Euro VI-E standard
M8B	Air intake behind the driver's cab, mounted M8L
	Centrifugal (cyclone) pre-filter for coarse dust M8Y
	Fuel pre-filter permanently mounted to the frame
M7I	Insect screen, in front of the radiator
M5V	Engine brake, high-power system M6L Air
compressor, 2-cylinder	
Clutch and transmission	
G5B	Dual-disc clutch
G2F	G 330-12/11.63-0.77 transmission
N6Z	Transmission oil cooling system (gearbox) G0C
	Drive system for vehicle combinations from 44 t to
120 t G0R	Transmission mounts optimized for removal G4D
	Transfer case VG2800-3W/1.45-1.04, permanently
engaged G5G	Mercedes PowerShift 3
G5L	Advanced PowerShift G0W
	Off-road driving program
N2E	MB 131-2c PTO, Z5M pump Power take-off
unit, single	

Z5S	Pump power take-off, low-mounted

Axles and axle suspension

A1Y	Straight front axle
A1D	8.0-ton front axle
A1W	Front axle differential lock A2G Rear axle, 300 mm
disc brake on the rear wheels, 13.4 t A6A Rear axle ratio i =	
4.571	
Q1X	Front leaf springs 2 x 8.0 t, 3-leaf Q3D
	Rear springs 2 x 16.0 t
C6Q	Front axle stabilizer C6V
	Stabilizer, on 1st rear axle
C6W	Reinforced stabilizer, on 2nd rear axle

Tires and rims

R1Q	Steel rims 9.00 x 22.5					
R0L	Custom tires, front axle					
R0M	Tires on request, front axle, and VLA and NLA					
R0N	Tires on request, rear axle					
R0O	Tires on request, rear axle and DNA					
R0Z	Wheel nut covers					
S1Y	Tire pressure monitoring system					
1.A.	308KRB 75	2x	13 R 22.5	On/Off Drive axle	Bridgestone	M-Drive 002
2.A.	308KRB 75	2x	13 R 22.5	On/Off Drive axle	Bridgestone	M-Drive 002
3.A.	308KRB 75	4x	13 R 22.5	On/Off Drive axle	Bridgestone	M-Drive 002
4.A.	308KRB 75	4x	13 R 22.5	On/Off Drive axle	Bridgestone	M-Drive 002

Frame and frame components

C5J	Mounting components, for dump truck
C0B	Frame overhang, 800 mm
CLX	Servotwin, optimized, dual-circuit CLW
	Steering gear oil cooler
C6J	Non-adjustable power steering pump
C7K	Batteries mounted one above the other
K0T	Main fuel tank, left side
K1Y	Fuel tank 330 l, left side, 735x565x950 mm,
aluminum. K3T25-liter AdBlue tank	
K5M	Tanks, lockable
K5R	Protective plate, for main fuel tank Z4P Wide-cross-
section fuel tank Z4Q Low-profile fuel tank	
K7D	Layout with a pipe leading out to the right side
K7R	Straight exhaust pipe, above the second axle
U2G	Muffler
C8F	Fenders, for chassis transport
F7B	Bumper, steel corners
F7D	Bumper, center with tow hook, throat coupling

M7J	Protective plate, under the
C9Y	bumper Optional: rear underrun bar (EC) Q8D Rear tow
coupling, Ringfeder	

Brake system

B2B	Front and rear drum brakes
B1A	EPB with ABS
B1Z	ABS system, disengageable
B1F	Heater for APU/EAPU high-pressure distribution system
B1H	Electrical supply and compressed air control,
medium B4A	Moisture sensor in the compressed air system
B4M	Compressed air tank, steel
B2X	Electronic parking brake

Exterior of the cab

F1O	M ClassicSpace driver's cab, 2.30 m, 320 mm tunnel
F1Q	M-type (medium) driver's cab
F2C	Floor variant – 320 mm engine tunnel
F2G	2.30 m wide driver's cab
F2N	Driver's cab, mounting height 600 mm
F2U	ClassicSpace
F4I	Rear cab wall, with window
F3B	Comfortable steel cab suspension
F3W	Mechanical-hydraulic cab tilt mechanism. F6D
	Tinted windshield with sun visor. F8W Rain sensor
D8A	Roof hatch/ventilation flap in the F4X roof
	External storage compartment flap, on the
left side	
F7Y	Entrance to driver's cab from left/right side, movable
F7Z	Step with handrail near the roof
F0Y	Mirror covers for construction
vehicles F6I	Heated front mirror
F5L	External sun visor, transparent
F5Y	A-pillar trim
F6R	Pneumatic horn, on the cab roof
F0G	Side module, N3G vehicle
F8B	2 keys with remote control
F8E	Lock system with central locking
F8F	Comfort locking system

Cabin interior

D1C	Cushioned, comfortable driver's seat D1N
	Functional passenger seat
D2Y	Seat belt fastening control
D5S	Driver's seat upholstery, premium smooth fabric
D5T	Front passenger seat upholstery, D5Y smooth fabric
	Rubber floor mats, on both sides

D4Y	Side sunshade, driver's side
J1H	Integrated instrument panel, 12.7 cm, with additional indicator.
J6W	Rearview camera at the rear of the vehicle J1M
	2nd generation digital tachograph, version 2,
ADR J1S	Tachograph manufacturer: VDO
E6Z	Reverse warning signal J6A Classic
cockpit	
J2H	J2K multimedia touchscreen
radio	Speakers, 2-way system
J0U	Remote update of the driver assistant card J7A
	Truck Data Center 7
J8U	Preparation for Truck Data Center 8 O0T
	Trucklive
J9A	Preparation for installing a 12 V CB radio, DIN slot
E3L	24 V/15 A socket, near the passenger's feet
D6Z	Construction filter
D7A	Thermal insulation, additional
D6F	Air conditioning
D7G	Glove box cover, driver and passenger side
D7Q	Storage compartment on engine tunnel, tall
D7R	Storage compartment lids above the windshield
D0S	Pneumatic connector in the driver's cab

Electrical / Electronics

E1W	2x12 V/170 Ah low-maintenance AGM batteries
E1U	Alternator, regulated 24-30 V/150 A
E3W	2nd generation PSM
L1C	LED daytime running lights
L4Z	Metal headlight guards
L1Q	Rear construction lights in sheet metal housings with grilles
L2H	Flashing side marker lights
L2T	2 LED warning lights, visibility less than
L1W	LED turn signal lights
L0A	Lighting compliant with UN-R 48.06
S5A	Speed limiter 90 km/h / 56 mph, EC
G9Y	PPC waiver
J7V	Driver Assistance Card Europe
S1H	Lane Keeping Assist S1L Driver Attention Assist
S1O	Traffic Sign Recognition Assistant
S2D	Active Brake Assist 6 S2H
	Active Sideguard Assist 2
S2L	Front Vehicle Monitoring Assistant (MOIS) S4A
	Preparation for breathalyzer with engine start-stop
system S5Z	Cruise control

Bodywork

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P0S	Space for control panels, next to the driver's seat
P9A	Tipping control from the driver's cab Z9E
	Protection Pack

Other equipment

M0C	Lower aerodynamic cover
M0Q	Soundproofing per UN-R 51.03, Phase
2 P0Q	Wheel arch and engine cover
S8C	Warning triangle
S8D	Warning light
Y4A	Telescopic vehicle lift, 12 t
Y4Y	Tire inflation hose
Y4Z	Compressed air gun with flexible hose
Y4I	1 wheel chock
D0L	Smoker's kit
K5Y	First fill-up, 30 L of fuel extra
O3K	Active Safety
OWY	New interior equipment
V0Q	Vehicle version according to GSR, phase 1
V0T	Vehicle category N3G, off-road vehicle
V8A	Chassis number, FIN
X3Z	Warranty on the powertrain according to OWS, 3 years/250,000 km
V2J	Construction transport Model version 5 V9F
	Technical changes for model year starting in
April X2E	Nameplate, EU
X1P	Plates/prints in Polish
U3S	Z5X 3rd Generation Electronic
Architecture	Steering wheel on the left
Z5Y	Right-hand drive vehicle CB radio
	PDI inspection



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Technical data

Weights and dimensions

Type	
Version	AK
Axle configuration	8x8/4
Wheelbase	4850 mm

Weights	
Weight on 1st front axle	4109 kg
Weight on 2nd front axle	4109 kg
Weight on 1st rear axle	2063 kg
Weight on the second rear axle	2,063 kg
Gross vehicle weight, ready to drive	12,344 kg
Payload	29,656 kg
Max. gross vehicle weight	42,000 kg
Permissible gross combination weight	45,500 kg

Engine	M3C
Displacement cm³	12809
Power kW / HP	350 / 476
Max. torque in Nm at 1100 rpm	2300

Tires	
1. Axis:	2x 13 R 22.5
2. Axle:	2x 13 R 22.5
3. Axle:	4x 13 R 22.5
4. axle:	4x 13 R 22.5

Body length	
With max. overhang	0 mm
Min. center of gravity from last axle	0 mm
Max. center of gravity from rear axle	0 mm

Transmission	
Code G2F	
Description Transmission G 330-12/11.63-0.77	

Dimensions	
Frame height – front axle – loaded	1,187 mm
Frame height – front axle – unloaded	1251 mm
Frame height – rear axle – loaded	1193 mm
Frame height – rear axle – unloaded	1252 mm

Vehicle weight including driver, tools, front/rear skid plate, spare tire, and fuel tank filled to 90%

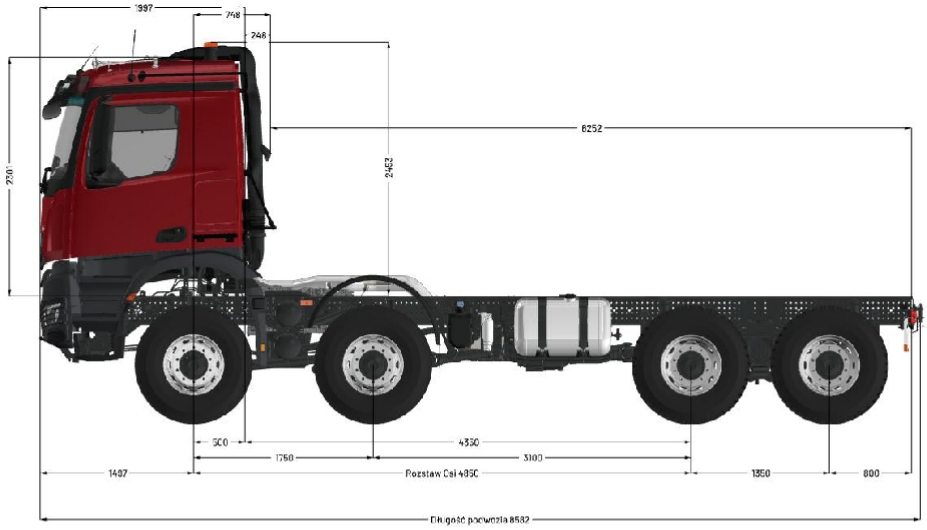
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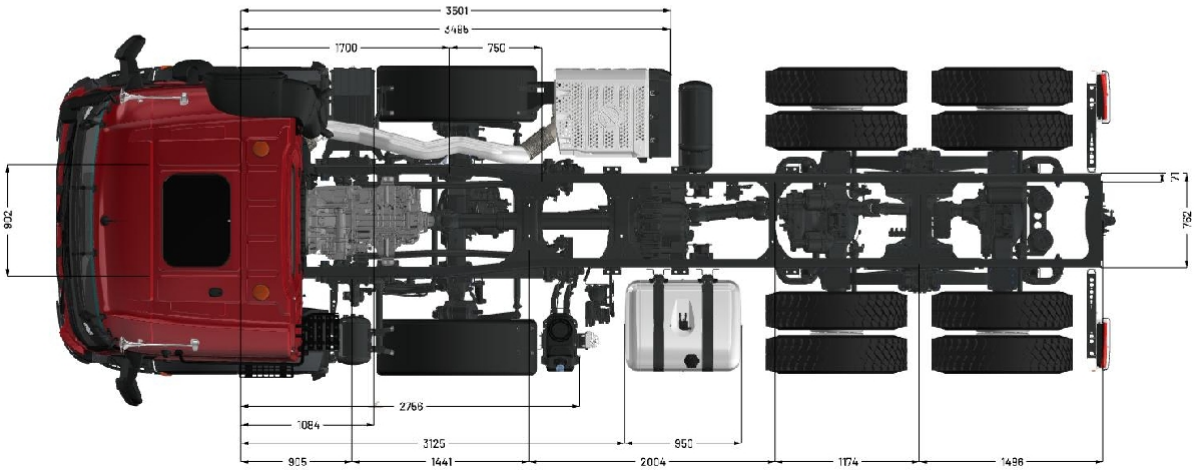
Technical data

Technical drawings









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'W1U' TYPE REAR-DUMP TRUCK FOR HEAVY TRANSPORT



TECHNICAL SPECIFICATIONS.

Design:

- **L** - overall length approx. **6200 mm**, "M"
- **B** - overall width approx. **2500 mm,**
- **H** - side height **1450 mm,**
- **V** - volume approx**.** **18.5 m³,**
- floor **7 mm, HARDOX 450 material,**
- sides **5 mm, HARDOX 450 material,**
- front side **5 mm HARDOX 450**, angled at 10 degrees with a small roof, welded with overlaps on the side, for better cargo release,
- fixed side walls, semi-circular U-shaped construction,
- aluminum discharge plates,
- **Omega Shape construction, low center of gravity, greater capacity with a lower side,**
- **6mm HARDOX 450** rear side with top hinges, inclined at a 10-degree angle, opens automatically when the body is raised, automatic latches, **reinforced low hinges**,

Hydraulic system:

- front hydraulic cylinder,
- HYVA hydraulic pump, oil reservoir,
- Pneumatic tipping control from the cab,
- Main valve, hydraulic lines,
- box lift indicator in the driver's cab,

Additional equipment:

- **aluminum rear bogie wheel fenders, plus hinged mud flaps,**
- **SNEEP rear shovel – flush with the floor, no step,**
- **aluminum side impact barriers,**
- **spare tire mount on a bracket behind the cab, including a winch,**
- **gray roll-up tarp on the right side plus a retractable ladder,**
- **folding ladder on the front wall,**
- **scissor stabilizer between the cargo box and the frame,**
- **2 repair supports under the cargo box,**
- **approved folding bumper,**
- tipping axle bolted to a self-lubricating bushing,
- rubber pads on the frame,
- **rear light covers with hinged grilles,**
- reflective tape decals,
- yellow marker lights, distinctive plates,
- dump body sandblasted, primed, and painted in a single specified RAL color – CAB –

Body mounted on the chassis.
Body weight: approx. 4480 kg.
The chassis should include: a power take-off unit on the 131-2C gearbox, wheel chocks, a spare wheel supplied loose, marker lights, and angle brackets for mounting the C5J body.

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