



The Menzi wheel dumper 45rd. If power decides.

Our new, in-house product, the Menzi dumper 45rd - made in Switzerland - is ahead of its time and sets new standards.

It is the first and only dumper with an engine that already complies with emission level 3b. Exhaust aftertreatment, which eliminates hazardous soot particles, is integrated by the manufacturer into modern turbo diesel engines.

Subsequent installation of a particle filter is not required.

Clean air rules meet!

Approved by the Swiss Clean Air Act.

Our engineers have chosen a future-oriented solution for the engine choice: namely a VW industrial engine (Volkswagen) of the latest generation. With a power setting of 66 kW @ 2500 min⁻¹ the Menzi wheel dumper 45rd was tested according to the current Clean Air Act at the Swiss Federal Institute. The legally regulated limits are met, in particular the relevant limits for the Switzerland of the particle number. The Menzi wheel dumper 45rd is therefore permitted in Switzerland without an additional particulate filter retrofit.

Highest level of environmental protection. Integrated active particle filter system.

The 4-cylinder common rail turbo engine from VW (Volkswagen with integrated exhaust treatment, eliminate the fine diesel soot particles by an automatically controlled filtration system. The operator and his driving style do not affect the function of filter regeneration: Just sit and go easily.

Hydraulic system.

An axial-piston variable displacement pump for the drive hydraulics with a delivery volume of 130 l/min at max. 400 bar. A gear pump for steering and the hatch with a delivery rate of 45 l/min at max. 180 bar. Priority valve for steering.



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Basic informations.

Cooling system - designed with lots of overhead.

The dumper has a large suction cooling system. Optimised air flow through three coolers arranged side by side. The cooling elements for water, hydraulic oil and charge air are size-optimised.

Powerful traction drive / strong axles.

The hydrostatic drive motors with large displacement is directly integrated into the drive train. This facilitates very precise, low-noise driving. The self-locking differential also ensures optimum, all-terrain traction when off the road. The foot brake and hand brake are integrated directly into the axle as multiple disk brakes in an oil bath. Each axle has a carrying capacity of six tons and a high driving torque.

Automotive driving.

Engine revs and drive pump are synchronised via the accelerator pedal. This provides the dumper with handling characteristics similar to an automatic drive. Two continuous driving modes: 0 - 10 km/h and 0 - 30 km/h.



Articulated steering.

The steering gear, with a maximum turn of +/- 40 degrees, is actuated by two dual-activating hydraulic cylinders. The steering cylinder piston rods are integrated into the chassis protectively. Minimum turning cycle: 3700 mm.

The articulated steering compensates for uneven terrain. The maximum swing angle is +/- 10 degrees. All joint parts are fitted with high-quality swivel-head eyes.

Swivel/dumping mechanism and dump bed.

The large-sized slewing ring allows the dump bed to be rotated by +/- 90 degrees. Mechanical lock. The floor of the dump bed is 8 mm thick; it is fitted with a flat bearing area to accommodate a europallet. A robust frame protects the dump bed from damage.

Standards.

- Roll bar
- Rear trailer tow socket
- Rear trailer hitch
- Lifting rings for lifting and securing
- Tyres: 12.5/80-R18

Options.

- Big dump bed / dump bed with deeper sill
- Individual paintwork
- Front trailer hitch
- Biodegradable hydraulic oil
- Tyres: 15.0/55-17 (tread lug)
- Canopy
- Safety roof with front window and shield wiper

Technical data

Capacity	4500 kg
Empty weight	3200 kg
Total weight	7700 kg
Bearing load per axle	6000 kg
Speed	up to 30 km/h
Dump bed piled	2550 liter
Dump bed even	2000 liter

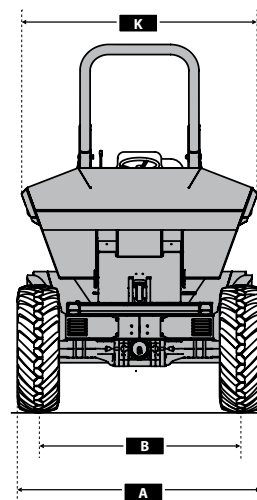
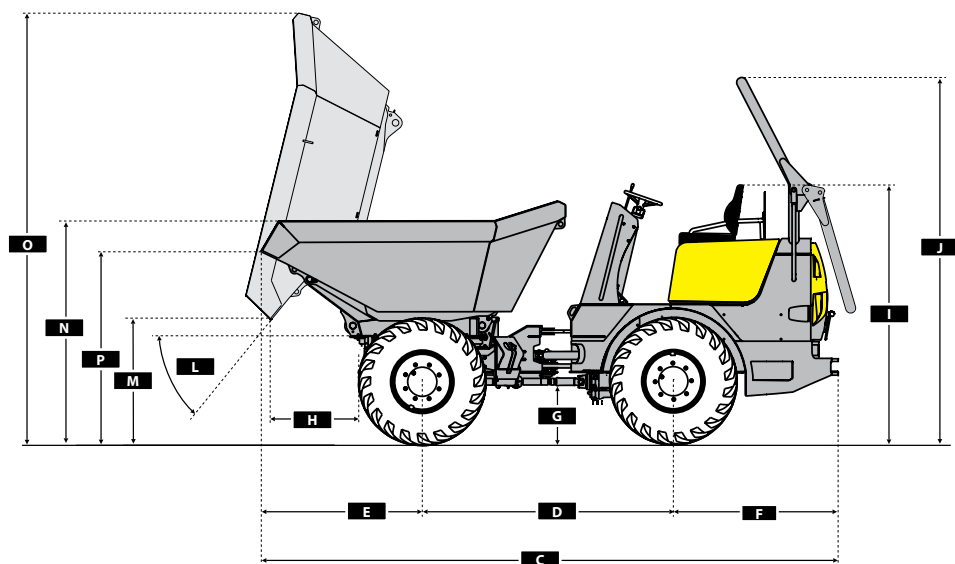


VW - Turbo-Diesel-Engine

Brand	Volkswagen
Type	4-Zylinder Turbodiesel
Denomination	TDI 2.0 DPF
Maximum output	75 kW / 102 PS
governed to	66 kW @ 2500 min-1
Displacement	2'000 ccm

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Dimensions.



Masse 45rd with standard dump bed

Tyres			12.5/80-18	15.0/55-17
A	Vehicle width	mm	1880	1945
B	Track width	mm	1530	1530
C	Vehicle length	mm	4350	4350
D	Wheel spacing	mm	2000	2000
E	Front projection	mm	1115	1115
F	Rear projection	mm	1235	1235
G	Ground clearance	mm	450	400
H	Distance from wheel / dumping edge	mm	570	520
I	Vehicle height (with folded rollbar)	mm	2020	1970
J	Vehicle height (with rollbar)	mm	2750	2700
K	Dump bed width	mm	1815	1815
L	Max. dumping angle of dump bed	Grad	51	51
M	Dumping height	mm	965	915
N	Sill (on the side)	mm	1665	1615
O	Tilted dump bed - max. height	mm	3285	3235
P	Viewing height in dump bed (from the front)	mm	1550	1500

Dump bed with deep sill

A smaller dump bed can be supplied as an option. In comparison to the standard hutch, the sill is 120 mm deeper. Capacity when piled: 2000 litres
Capacity when even: 1400 litres