

Hydrema 922D – TECHNICAL DATA

Chassis:

Articulated chassis with pendulum bar and double hydraulic stabilizers in the centre pivot. The two stabilizers provide a high degree of stability both when driving and when carrying out dumping operations. The chassis is fabricated in high tensile steel in order to obtain the highest possible strength and the lowest possible unladen weight. Oscillation: +/- 12o.

Axles:

Front: rigid axle with electronically controlled suspension and level control. Individual level control on each side enables the vehicle to remain level when driving fast round corners. The front axle has a differential lock with 75% locking action.

Rear: heavy-duty bogie axle with reduction gear at the differential and slow-moving gear in the bogie boxes. Simple and maintenance-free design..

Engine:

Cummins QSB 24 valve, 6,7 litre 6 cyl. stage 3a, with turbo and intercooler. 194 kW/264 hp at 2200 rpm. Power bulge: 201 kW/274 hp at 2000 rpm. Max. torque 990 Nm at 1300-1500 rpm. The engine is equipped with 24 valves and a fully electronically controlled common rail injection. The engine fan runs at variable revs according to cooling requirements. Latest engine technology which meets EEC stage 3a requirements for exhaust emission..

Transmission:

ZF ERGOPOWER 6 WG 210 automatic transmission with 6 forward gears and 3 reverse gears. The transmission is equipped with 100% "lock-up" in all gears, which electronically locks the connection between the engine and the transmission, and gives direct drive which bypasses the converter. A centre differential is located in the transmission's output shaft in order to equalise the speed differential between the front and rear axle. The centre differential has 100% differential lock. Electronic control of the transmission's shifting mechanism via a joystick (ZF Ergo 2), fully automatic or manual gearshift. Smooth gearshift which prevents wheel slip in difficult conditions. Max. speed: forward: 50 km/h / reverse: 31 km/h – Max. tractive effort: 212 KN..

Steering:

The new servo activated hydrostatic steering results in great comfort, since impacts from the terrain are not transferred through to the steering wheel. Separate variable pump for steering function.

Max. steering angle:+/- 38o

Brakes:

Full dual-circuit brake system with oil-immersed disc brakes on all 6 wheels. Fail-Safe parking brake on the front axle. Maintenance-free brakes. The brakes can be activated by a push button before dumping operations are commenced.

Retarder:

Exhaust brake and hydraulic retarder. Automatic controlled exhaust brake via engine. The hydraulic retarder can be engaged manually when needed..

Hydraulic system:

The hydraulic system consists of 4 independent hydraulic pumps: Pump 1: 32 l/min constant flow pump for brake, stabilizer, differential lock and suspension. Pump 2: 150 l/min variable flow pump for pivot steering. Pump 3: 170 l/min constant flow pump for tipping function. Pump 4: 64 l/min variable flow pump for emergency steering..

Electric system:

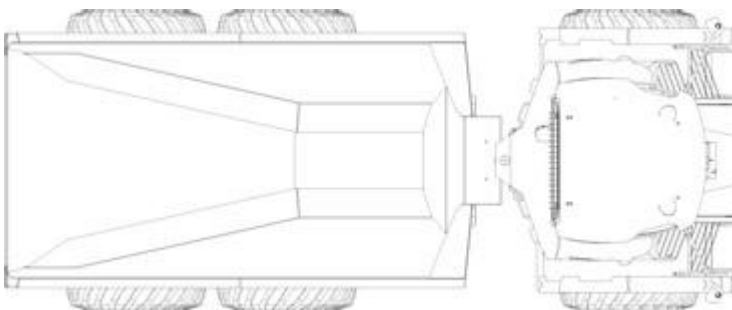
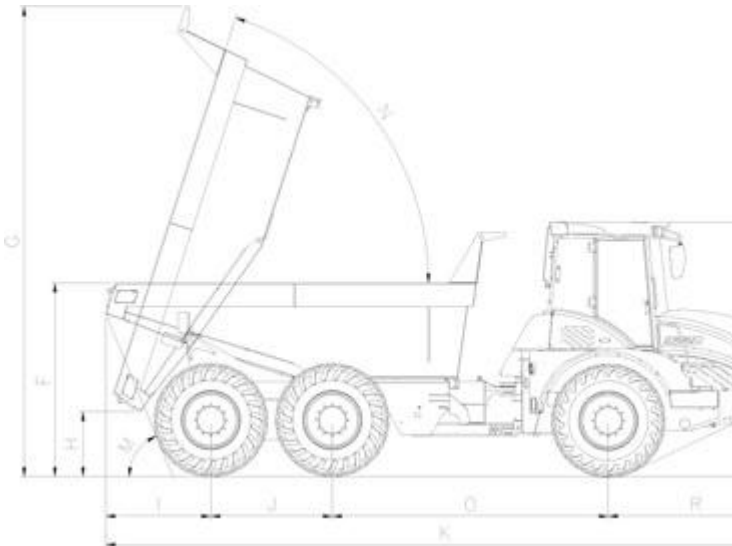
Standard 24V el. system with 70 Amp. alternator.

Tyres:

922D	600/60×30.5	Ground pressure, loaded	117 kPa
922D	800/45×30.5	Ground pressure, loaded	82 kPa
922D + 922D-2.55	EM 20.5R25	Ground pressure, loaded	132kPa

Dumptruck body:

Robot-welded dumptruck body in high tensile Hardox 450 steel without side ribs. The double action tipping cylinders are located under the body for maximum protection. As an option, the dumptruck body can be supplied with exhaust heat and an automatically functioning Tail Gate.



Dimensions

	922D	922D -2.55	
Total weight	35.80 0	36.60 0	kg
Unladen weight	15.80 0	16.60 0	kg
Load capacity	20.00 0	20.00 0	kg

Axle weights (unladen)

Front	8.000	8.300	kg
Centre (bogie)	3.900	4.150	kg
Rear	3.900	4.150	kg

Axle weights (loaded)

Front	10.80 0	11.10 0	kg
Centre (bogie)	12.50 0	12.75 0	kg
Rear (bogie)	12.50 0	12.75 0	kg
Track	2.270	2.380	m m

Total width

600/60×30 .5	2.870	%	m m
800/45×30 .5	3.290	%	m m
EM 20.5R25 (540 mm)	2.750	2.550	m m
Width, dumper body	2.750	2.550	m m
Ground clearance	480	480	m m

Gr. clearance under bogie diff.	510	510	m
Total height	3.390	3.390	m
Transport height	3.440	3.440	m
Loading height	2.590	2.590	m
Height with raised body	6.290	6.290	m
Tipping clearance	820	820	m
Overhang, front	2.380	2.380	m
Overhang, bag	1.410	1.410	m
Length	9.130	9.130	m
Wheel base, bogie	1.636	1.636	m
Approach angle, front	25	25	°
Tipping angle	70	70	°
Body capacity, levelled	8,90	8,75	m ³
Body capacity, heaped	12,0	12,0	m ³
Tipping time, raise	7,5	7,5	se k
Tipping time, lower	5,5	5,5	se k
Turning radius, outer	8.510	8.510	m
Fuel tank	320	320	l
Hyd Tank	200	200	l

