



## MS25 Water Bowser



### SPECIFICATIONS

ITEM	DATA	ITEM	DATA
Max. Design Weight (kg)	41500	Min. Turning Diameter (m)	≤ 25
Water tank capacity (kg)	25000	Unladen/Laden Max. Gradeability (%)	≥ 33
Curb Weight (kg)	16500	Driven type	6 x 4
Max. Speed (km/h)	50		



### ENGINE

ITEM	DATA	ITEM	DATA
Make	Weichai WD12G336E211	Number of Cylinder	6
Type	Line Direct Injection, Water-cooling Electric-controlled	Cylinder diameter/stroke (mm)	126/155
Rated Power(kW)	338	Max. Torque (N.m)	1350
Rated Speed (r/min)	2200	Emission Standard	GB20891-2007 EURO II
Emission load (ml)	11596		



## TRANSMISSION SYSTEM

ITEM	DATA		
Gearbox 7DS180	Type	Planet Type	
	Speed Ratio/ Gear Ratio	1st	9.14
		2nd	6.7
		3rd	4.85
		4th	3.6
		5th	2.65
		6th	1.61
		7th	1
	R1	13.14	
Clutch	Type	Single Plate, Dry, Hydraulic Distant Control	
	Diaphragm Spring Separation (mm)	12-14	
	OD/ID of Friction Plate (mm)	430/242	
	Max. Separation Force of Diaphragm Spring (N)	8400	
	Leverage ratio of separation	1.73	
	Type	Axis-fixed	
	Speeds	Forward 7 Reverse 1	
Front Axle	Steering Axle (non-drive axle)	Casting Axle Housing	
Middle-Rear Axle	Main Reduction Ratio	2.25	
	Wheel Edge Reduction Ratio	3.947	
	Total Reduction Ratio	8.88	
	Rim	8.5/1.7-20	
	Tyre	12.00R20-18PR	
	Tyre Pressure	0.83	



## BRAKE SYSTEM

ITEM	DATA
Braking Pressure (MPa)	0.85MPa
Main Brake	Two-circuit Air Brake
Auxiliary Brake	WEVB brake, hydraulic retarder brake
Parking Brake	Spring energy storage air brake



## REFUELING CAPACITY

ITEM	DATA	ITEM	DATA
Hydraulic Oil (L)	45	Engine Oil (L)	24
Middle Axle gear oil (L)	23	Anti-freezing Fluid (L)	30
Rear Axle Gear oil (L)	20	Brake Fluid (L)	1.5
Rear Axle Gear oil (L)	20	Fuel tank (L)	380
Gearbox gear oil (L)	23		



## LIFTING SYSTEM

ITEM	DATA	ITEM	DATA
Type	Pneumatic Control	Bucket Raising Time(full-lade)	≤25s
Lifting Cylinder	4TG-F172*4310ZZ-00	Bucket Lowering Time(no-lade)	≤25s
Max.Working Pressure	22Mpa	Total Time	≤50s



## STEERING SYSTEM

ITEM	DATA
Type	full hydraulic steering
Max.Turning Angle	45°
Safety Valve	Yes
Steering Pump	Gear pump: displacement 28ml/r
Steering Cylinder-Cylinder Diameter x Stem Diameter x	HSGL - 50 x 30 x 260 - 485
Min Installation Distance-Stroke (mm)	
Steering Gear	BZZ-630
Min Turning Diameter (m)	22
System Working Pressure	17+-1.5



## OVERALL DIMENSIONS

ITEM	DATA	ITEM	DATA
Length (mm)	9780	Wheelbase Front-Middle Axle (mm)	2046
Width (mm)	2560	Wheelbase Middle-Rear Axle (mm)	1809
Height (mm)	3480	Wheel Tread Front Axle (mm)	4000
Ground Clearance (mm)	293	Wheel Tread Middle, Rear Axle (mm)	1400

