



## RB9220 GRADER



### SPECIFICATIONS

ITEM	DATA	ITEM	DATA
Total mass (kg)	18430	Minimum steering radius (m)	7.6
Weight on front axle (kg)	4800	Blade lifting height (mm)	445
Weight on rear axle (kg)	11700	Blade cutting depth (mm)	787
Maximum inclination angle of front wheel (°)	±18	Blade cutting angle (forward) (°)	47
Maximum swinging angle of front axle (°)	±16	Blade cutting angle (backward) (°)	5
Maximum steering angle of front wheel (°)	±50	Blade tilt angle (°)	90
Steering angle of frame joint (°)	±23	Side shifting distance of blade (mm)	left 673 right 673
Cutter diameter (mm)	1626	Maximum traction force (kN)	87
Blade specification (mm)	4267*635*25	Blade slewing angle (°)	360
Speed of forward I (km/h)	5	Speed of forward II (km/h)	9
Speed of forward III (km/h)	12	Speed of forward IV (km/h)	20.5
Forward V (km/h)	25.5	Forward VI (km/h)	39
Speed of reverse I (km/h)	5	Speed of reverse II (km/h)	12
Speed of reverse III (km/h)	25.5		



## REFUELING CAPACITY

ITEM	DATA	ITEM	DATA
Fuel Tank	270	Rear axle housing	23
Oil Capacity	132	Rear axle tandem	46
Water radiator antifreeze coolant	30	Transmission Oil	28



## ENGINE

ITEM	DATA	ITEM	DATA
Engine Model	BF6M1013-23T3R	Number of cylinders	6
Engine type	In-line, water-cooled, four-stroke, direct injection	Bore/stroke (mm)	108/130
Engine power (KW)	169	Rated rotation speed (r/min)	2200
Minimum fuel consumption(g/kW.h)	210	Displacement (ml)	7146
Emission standard	GB 20891-2014 (China emission)	Max torque (N.m)/rotation speed (r/min)	900/1600



## TRANSMISSION SYSTEM

ITEM	DATA	ITEM	DATA
Model of hydraulic converter	ZFW340	type of hydraulic converter	Single-stage single-phase ternary part, which connected with the gearbox
Hydraulic converter circulating circle (mm)	340	Torque ratio at hydraulic converter stall	2.14
Transmission model	6WG200	Transmission type	Counter-shaft power shift
Operation mode of transmission	electro-hydraulic operation	Oil pressure of transmission shifting operation (MPa)	1.6-1.8
Gear ratio of transmission forward II	3.447	Gear ratio of transmission forward I	5.991
Gear ratio of transmission forward IV	1.494	Gear ratio of transmission forward III	2.596
Gear ratio of transmission forward VI	0.678	Gear ratio of transmission forward V	1.179
Gear ratio of transmission reverse II	2.596	Gear ratio of transmission reverse I	5.991
Final ratio of drive axle	3.7	Gear ratio of transmission reverse III	1.179

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Tandem reduction ratio	1.474	Wheel reduction ratio of drive axle	3.26
Rim	14.00/1.5-25	Tyre size	17.5-25-16PR
Tyre pressure of rear axle (MPa)	0.25±0.01	Tyre pressure of front axle (MPa)	0.25±0.01
Total reduction ratio	17.779	service brake press (MPa)	10.3±0.5



## HYDRAULIC SYSTEM

ITEM	DATA	ITEM	DATA
Type of hydraulic pressure	Open-type system	Main pump model	Gear pump(jinan)
Pressure of safety valve of Husco multi-way valve (MPa)	21.4±0.35	System pressure (Mpa)	21
Nominal flow rate of Husco multi-way valve (L/min)	65	Pressure of overload valve of Husco multi-way valve (MPa)	23.4
Front wheel tilt cylinder	φ100xφ50-169-473	Front wheel steering cylinder	φ63*φ45-340-577
Locking cylinder	φ80*φ60-63.5-38	Slewing cylinder	φ80*φ35-279.5-507
Blade sideshift cylinder	φ90*φ50-1346-1794	Blade swinging cylinder	φ90*φ50-693.5-955.5
Blade lifting cylinder	φ90*φ50-1379.5-493.5	Steering articulated cylinder	φ110*φ50-303-610
Blade angle-varying cylinder	φ80*φ35-243-468	Rotary valve	Mico Rotary valve



## CONFIGURATION

ITEM	DATA	ITEM	DATA
Overall length (mm)	9235	Wheel track (mm)	2260
Overall width (mm)	2710	Wheelbase (mm)	6480
Overall height (mm)	3240	Tandem center distance (mm)	1538
Ground clearance of front axle (mm)	610	Ground clearance of rear axle (mm)	430

