G9190 Grader Parameter(G1900V3244106C3)

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1.Parameter

Total mass (kg)	15800	Minimum steering radius (m)	7.6
Weight on front axle (kg)	4700	Blade lifting height (mm)	445
Weight on rear axle (kg)	11100	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)	82
Blade specification (mm)	3658*575*25	Blade slewing angle (°)	360
Speed of forward I (km/h)	5.3	Speed of forward II (km/h)	9
Speed of forward III (km/h)	12	Forward VI(km/h)	40
Forward V(km/h)	26	Speed of forward IV (km/h)	21
Speed of reverse I (km/h)	5.3	Speed of reverse II (km/h)	12
Speed of reverse III (km/h)	26	Speed of reverse IV (km/h)	-
Speed of reverse V (km/h)	-	Speed of reverse VI (km/h)	-

2.Dimension

Overall length (mm)	8975	Wheel track	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

3.Engine

Engine model	SD70B	Number of cylinders	6
Engine type	In-line、water-cooled、four-stroke、 direct injection	Bore/stroke (mm)	108/130
Engine power (KW)	150	Rated power (KW)	-
Minimum fuel consumption(g/kW.h)	-	Rated rotation speed (r/min)	2100
Maximum torque (N.m)/rotation speed (r/min)	954/1550	Displacement (ml)	7200
Emission standard	EC StageIII & EPA TierIII	_	-

4.Transmission system

Model of hydraulic converter	ZFW340	type of hydraulic converter	单级单相三元件，与变速箱连成一体
Diameter of 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 I	5.991	Gear ratio of transmission forward II	3.447

Gear ratio of transmission forward Ⅲ	2.596	Gear ratio of transmission forward Ⅳ	1.494
Gear ratio of transmission forward Ⅴ	1.179	Gear ratio of transmission forward Ⅵ	0.678
Gear ratio of transmission reverse Ⅰ	5.991	Gear ratio of transmission reverse Ⅱ	2.596
Gear ratio of transmission reverse Ⅲ	1.179	Total reduction ratio	16.164
Final ratio of drive axle	3.364	Wheel reduction ratio of drive axle	3.26
Tandem reduction ratio	1.474	Tyre size	17.5-25-16PR
Rim	14.00/1.5-25	Tyre pressure of front axle (MPa)	0.25±0.01
Tyre pressure of rear axle (MPa)	0.25±0.01	service brake press (MPa)	10.3±0.5

5.Hydraulic system

Type of hydraulic pressure	Open-type system	Main pump model	Plunger pump
Main pump displacement (ml/r)	75	System pressure (Mpa)	20
Setting pressure of safety valve of Husco multi-way valve (MPa)	21.4±0.35	Setting pressure of overload valve of Husco multi-way valve (MPa)	23.4
Nominal flow rate of Husco multi-way valve (L/min)	65	Rotary valve	Mico Rotary valve
Specification of front wheel tilt cylinder	100*50-169-473	Specification of front wheel steering cylinder	63*45-340-577
Specification of locking cylinder	80*60-63.5-38	Specification of slewing cylinder	80*35-279.5-507
Specification of blade sideshift cylinder	90*50-1346-1794	Specification of blade swinging cylinder	90*50-693.5-955.5
Specification of blade lifting cylinder	90*50-1379.5-493.5	Specification of steering articulated cylinder	110*50-303-610
Specification of blade angle-varying cylinder	100*50-260.5-562	-	-

6.Fuel charge

Diesel filling capacity of fuel tank	270	Gear oil filling capacity of rear axle housing	28
Oil tank filling capacity	160	Gear oil filling capacity of rear axle tandem	46
Oil filling capacity of engine oil pan	21.5	Gear oil filling capacity of rear axle wet brake oil chamber	_
Filling capacity of water radiator antifreeze coolant	30	Filling capacity of transmission oil	28