



PY165H MOTOR GRADER SPECIFICATIONS

- Sing-handle electro-hydraulic controlled power-shift T/M, 6forward & 3reverse shifts makes operation easy and convenient
- Hydraulic lock, auto lock/unlock NO-SPIN differential ensures stability and powerful traction
- Ideal axle load allocation provides excellent stability while cutting hard surface
- Serviceable, efficient hydraulic system enables every part to be fully used
- Box-typed frame and advanced T/M enable it to complete heavy-duty work
- A wide working range is accomplished through flexible blade suspension system and articulated frame

Overall Dimension		
1	Length	8630mm
2	Width	2600mm
3	Height(To the top of the cab)	3370mm
4	Wheel base	6100mm

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5	Tread	2120(mm)
Main Technical Specification		
1	Operating weight	14500kg
2	Blade length	3660mm
3	Blade height	645mm
4	Blade width	18mm
5	Max lifting height	450mm
6	Max grading depth	535mm
7	Min. turning radius	7300mm
8	Pivot angle frame	$\pm 26^{\circ}$
9	Max turning angle(front wheel)	$\pm 49^{\circ}$
10	Oscillating angle of front axle	32°
11	Front axle center ground clearance	610mm
12	Traveling speed(Km/h), 6 forward and 3 reverse	
	(1) I gear forward	6.5
	(2) II gear forward	11.4
	(3) III gear forward	14.6
	(4) IV gear forward	24.8
	(5) V gear forward	30
	(6) VI gear forward	49.2
	(7) I gear reverse	6.5
	(8) II gear reverse	14.6
	(9) III gear reverse	30
Diesel engine		

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1	Model	Cummins 6BT5.9-C168	Chinese engine D6114ZG9B
2	Type	Direct injection. Turbocharged. Water cooling	
3	Rated output	125kW	125kW
4	Inter-bore of cylinder/Stroke	102/120 (mm)	114/135 (mm)
5	Total exhaust of cylinder	5.9(L)	8.3(L)
6	Power of start motor	4.5(KW)	7.5(KW)
7	Voltage of starting motor	24(V)	24(V)
8	Rated speed	2200(r/min)	2200(r/min)
9	Max. Torque	733(N.M)	600(N.M)
10	Starting type	Electric	Electric
11	Min. specific fuel consumption	201(g/Kw.h)	226(g/Kw.h)
12	Net weight	452(kg)	640(kg)

Transmission System

(一) Torque Converter

1	Model	WG180 (ZF technology)	
2	Type	3-elements.single stage	
3	Torque ratio	2.52	
4	Cooling type	Pressure oil circulating	

(二)、Transmission case

1	Model	WG180 (ZF technology)	
2	Type	power shift, single-shift lever, natural-shift lock device	
3	Gear shift position	6 Forward and 3 reverse gears	

(三)、Axle and Tire

1	Type of main reducer	spiral bevel gear, single stage	
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2	Gear ratio of main reducer		3.583
3	Type of final reducer		Single stage chain-drive
4	Gear of ratio of final reducer		3.75
5	Gear ratio		13.436
6	Tandem drive		Double row roller-chains
7	Size of tire		17.5-25-12PR
Working Device Hydraulic System			
1	Model of oil pump(include steering pump)		CBGj2045/1025
2	System pressure		175(kgf/cm ²)
3	Model of distribution valve		HUSCO5000-D
4	Cylinder		CHINESE CHANGLIN
5	Hydraulic lock		KAYABA technology
6	Model of oil motor		EATON, JS-130
7	Blade load		176kgf
Steering System			
1	Type	Fore Tire deflexion	
2	Model of steering gear		BZZ1-E160B/ FKA-153022
3	System pressure		15MPa
Brake System			
1	Type of traveling brake	Hydraulic assisted actuate drum brake	
2	Oil pressure		120(kgf/cm ²)
3	Type of parking brake	Flexible control and inner-expanding drum brake	
Oil Capacity			
1	Fuel(diesel)		350L

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2	Engine lubricating oil	27L
3	Oil for converter and gear box	45L
4	Oil for hydraulic system	70L
5	Oil for driving rear axles	18L
6	Balance box	84L