



## 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

5 Tread	2120(mm)
<b>Main Technical Specification</b>	
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	$32^{\circ}$
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
<b>Diesel engine</b>	

1 Model	Cummins 6BT5.9-C166	Chinese engine D6114ZG9B
2 Type	Direct injection. Turbocharged. Water cooling	
3 Rated output	126 (kW)	123 kW
4 Inter-bore of cylinder	102 (mm)	114 (mm)
5 Total exhaust of cylinder	5.9 (L)	8.3(L)
6 Power of start motor	7.5(KW)	7.5(KW)
7 Voltage of starting motor	24(V)	24(V)
8 Rated speed	2100(r/min)	2200(r/min)
9 Max. Torque	643(N.M)	675(N.M)
10 Starting type	Electric	Electric
11 Min. specific fuel consumption	206(g/Kw.h)	207(g/Kw.h)
12 Net weight	452(kg)	645(kg)
<b>Transmission System</b>		
<b>(一) Torque Converter</b>		
1 Model	WG180 (ZF technology)	
2 Type	3-elements.single stage	
3 Torque ratio	2.35	
4 Cooling type	Pressure oil circulating	
<b>(二)、Transmission case</b>		
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	
<b>(三)、Axle and Tire</b>		
1	Type of main reducer	spiral bevel gear, single stage

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
<b>Working Device Hydraulic System</b>		
1	Model of oil pump	CBGj2045/1025
2	System pressure	175(kgf/cm <sup>2</sup> )
3	Model of distribution valve	HUSCO5000-D
4	Cylinder	HYUNDAI
5	Hydraulic lock	KAYABA technology
6	Model of oil motor	EATON, JS-130
7	Blade load	176kgf
<b>Steering System</b>		
1	Type	Fore Tire deflexion
2	Model of steering pump	CBG1025
3	Model of steering gear	BZZ1-E160B/ FKA-153022
4	System pressure	15MPa
<b>Brake System</b>		
1	Type of traveling brake	Hydraulic assisted and inner-expanding brake
2	Oil pressure	10(kgf/cm <sup>2</sup> )
3	Type of parking brake	Mechanical and inner expand hoof brake
<b>Oil Capacity</b>		

1 Fuel(diesel)	350L
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