

# PENGPU

## PD165Y

SERIES BULLDOZER



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**TWP COMPANY LIMITED**  
MACHINERY TRADING

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ENGINE	SC11CB184G2B1
FIYWHEEL HORSEPOWER	122kW
WEIGHT (PD165Y)	17800kg
WEIGHT (PD165YS)	18200kg

**SHANGHAI PENGPU**

LOW FUEL CONSUMPTION, GREAT DRAWBAR PULL, HIGH PRODUCTION EFFICIENCY

### Features and beauties

- ◇The appearance of the vehicle is based on optimization design.
- ◇High engine power reserve, strong torque output, low fuel consumption, reliable controls.
- ◇Hydraulically powered, automatic speed change, shift the gears without stop the vehicle.
- ◇3 elements, single stage and single phase torque convertor features high efficiency and capacity.
- ◇The updated hexahedral cab features outstanding visibility and good tightness.
- ◇Using the triangle spline and the gear of crowned teeth and tip relief in the final drive to average the loads on the trans-mission components for more stability, prolong the lifetime.
- ◇New blade is more durable and capacious.
- ◇Alarming & monitoring system is reliable.
- ◇Reliable manual-operated spool valve and external mounted valve for easy maintenance.

Military choose for civilian use machine



Certified by the national PLA standards quality system.



SC11CB184G2B1  
(C3306)

The Ace power of China Construction Machinery

- ◆Excellent Reliability  
The idea of high dependability and long lifetime for the machine as well as the key components goes through the machines and the parts development. The key contacting surface pairs are reliable and wearable.
- ◆Strong Power  
The engine displacement 1.5 liter is much more than the competitors. Engine torque reserve coefficient up to 1.5 ensures powerful driving and quick responsiveness to make operation comfort.
- ◆High Efficiency  
The productivity is 23% higher than that of the other similar vehicles while the fuel consumption is at least 10% lower.
- ◆Easy Maintenance and Service.
- ◆Cold Start, Excellent Performance.
- ◆The model of the Cummins engine can be chosen at the request of the customer.

### Gear Box

The gear box is of the planetary gears type, by operating hydraulic control valve for traveling forward and backward. It features planetary gears, multi-disc clutch, hydraulically applied forced lubrication, 3 speeds forward and 3 speeds backwards.



### Torque Converter

The torque converters are of the single stage, single phase, 3 elements hydraulic type with reasonable structure and excellent reliability, which provide optimum matching with the machines. The outstanding transmissions comparing to the normal ones means the automatic adjustment to the field condition, gradually speed change, improved machine lifetime and traveling ability, easy maintenance, improved working comfort and torque limit set protection function.

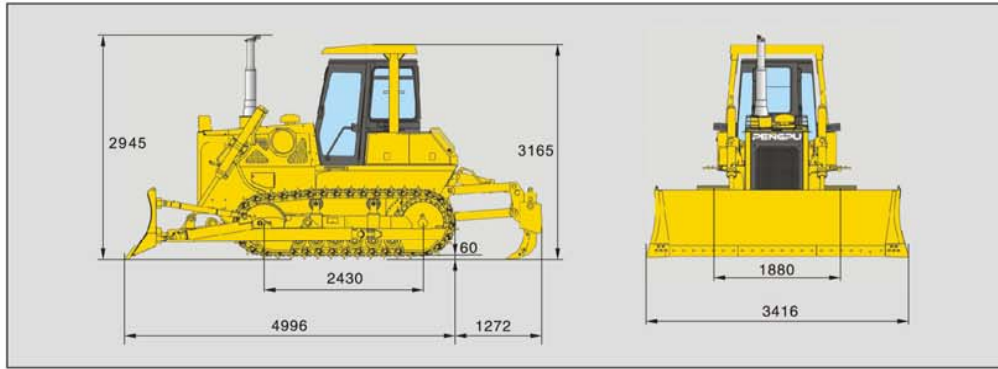


### The Final Driving

For tip relieve and crowned gears which features large loading capacity, stable transmission and long lifetime.



## PD165Y-2 BULLDOZER



### WORK EQUIPMENT



Blade type	Straight tilt blade	Angle	U dozer
(mm) Width × Height (mm)	3416 × 1150	4019 × 1050	3400 × 1150
(mm) Max.lift above ground (mm)	1090	1110	1090
(mm) Max.drop below ground (mm)	530	530	530
(° ) Pitch adjustment (° )	55	55	55
(mm) Max. Tilt (mm)	400	—	400
Blade capacity(m <sup>3</sup> )	4.5	4.5	5.6

### Ripper

Type	
Max. dig below ground(mm)	572
Max. lift above ground (mm)	492



### ENGINE

Model	SC11CB184G2B1
Type	Straight vertical, four-stroke, water cooling, direct injection type
Flywheel power(kW)	122
Rated speed (r/min)	1850
Number of cylinders-bore × stroke (mm)	6-121 × 152
Starting method	Electric starting motor 24V, 7.5kW
Battery	24V(12V × 2)
Air cleaner	Dry type, pre-cleaned cyclone air cleaner
Min fuel consumption ratio(l/min)	208

### TRANSMISSION

Torque converter	3-element, single-stage, single-phase
Gearbox	Hydraulic shift, Planetary gear, multiple disc clutch, forced lubrication by gear pump
Bevel gear	helical bevel gear, Splash lubricated
Steering clutch	Wet, Multiple disc.Spring loaded, Hand-operatedwith booster and hydraulic-released
Steering brake	brake, operated with hydraulic booster
Final drive	Spur gear, double reduction, splash lubricated

### TRACK

Type	Sealed and lubricated single grouser or sealed single grouser
Track pitch (mm)	203.2
Track width (mm)	510
Number of track shoes(each side)	37
Length of track on ground (mm)	2430
Track gauge (mm)	1880

### HYDRAULIC SYSTEM OF WORK EQUIPMENT

Working pressure (Mpa)	14
Rated flow (L/min) (2000r/min)	243
Pump	Gear pump
Control valve	Hand-operated, sliding type
Cylinder, Bore × Rod × Stroke (mm)	Φ110 × Φ65 × 1026

### 行走装置 UNDER CARRIAGE

Sprocket	Segmented
No. of carrier roller (each side)	2
No. of track rollers (each side)	6(4 Single, 2 double)
Track tension	Hydraulic-adjusted

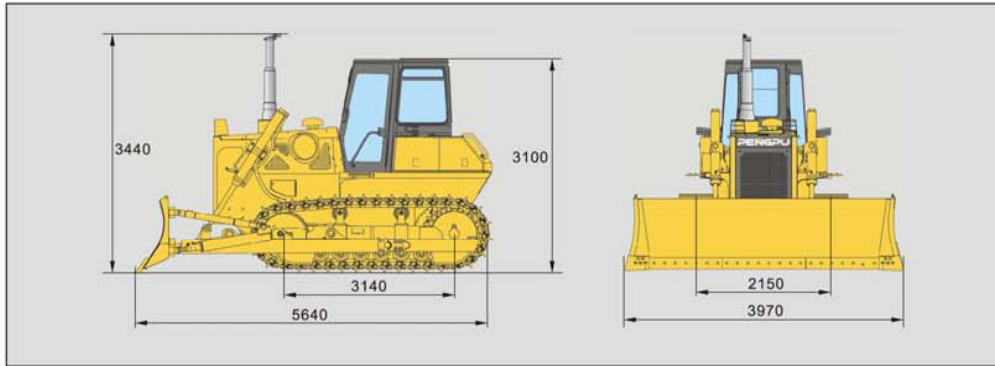
Floating seals are used in all sprockets, track rollers, carrier rollers and front idlers

### 行驶速度 TRAVEL SPEED (km/h)

	1st	2nd	3rd
Forward	3.8	6.6	10.6
Reverse	4.9	8.5	13.6



## PD165YS BULLDOZER



### WORK EQUIPMENT



Blade type	Straight tilt blade	Dozer for garbage
Width x Height (mm)	3970 x 1050	3970 x 1514
Max.lift above ground (mm)	1180	1180
Max.drop below ground (mm)	440	440
Pitch adjustment (°)	55	55
Max. Tilt (mm)	700	700
(Blade capacity(m <sup>3</sup> ))	4.4	6.17



### ENGINE

Model	SC11CB184G2B1	Cummins NT855-C280
Type	Straight vertical, four-stroke, water cooling, direct injection type	Straight vertical, four-stroke, water cooling, PT pump injection, turbocharged
Flywheel power(kW)	122	122
Rated speed (r/min)	1850	1850
Number of cylinders-bore x stroke (mm)	6-121 x 152	6-140 x 152
Starting method	Electric starting motor 24V, 7.5kW	Electric starting motor 24V, 7.5kW
Battery	24V(12V x 2)	24V(12V x 2)
Air cleaner	Dry type, precleaned cyclone air cleaner	Dry type, precleaned paper element air cleaner
Min fuel consumption rate(l/min)	208	214

### TRANSMISSION

Torque converter	3-element, single-stage, single-phase
Gearbox	Hydraulic shift, Planetary gear, multiple disc clutch, forced lubrication by gear pump
Bevel gear	helical bevel gear, Splash lubricated
Steering clutch	Hand-operated with booster and hydraulic-released
Steering brake	brake, operated with hydraulic booster
Final drive	double reduction, splash lubricated

### TRACK

Type	lubricated single grouser or sealed single grouser
Track pitch (mm)	203.2
Track width (mm)	1000
Number of track shoes(each side)	44
Length of track on ground (mm)	3140
Track gauge (mm)	2150

### HYDRAULIC SYSTEM OF WORK EQUIPMENT

Working pressure (Mpa)	14
Rated flow (L/min) (2000r/min)	243
Pump	Gear pump
Control valve	Hand-operated, sliding type
Cylinder, Bore x Rod x Stroke (mm)	Φ110 x Φ65 x 1026

### UNDER CARRIAGE

Sprocket	Segmented
No. of carrier roller (each side)	2
No. of track rollers (each side)	7(3 Single, 4 double)
Track tension	Hydraulic-adjusted

Floating seals are used in all sprockets, track rollers, carrier rollers and front idlers

### TRAVEL SPEED (km/h)

	1st	2nd	3rd
Forward	3.8	6.6	10.6
Reverse	4.9	8.5	13.6