

ZOOMLION

Heavy Industry & Science

■ PY190 平地机 PY190 Grader





中联重科 创造重工与科技的完美结合
A Golden Combination of Heavy Industry and Science

打造一流精品
Manufactured the Advanced Machine in the World

ZOOMLION

中联重科PY190平地机是在吸取了国内外众多平地机厂家经验的基础上，采用国际先进的I-deas三维设计手段以及一流的制造技术，打造而成的一流平地机精品。该平地机具有更合理的输出扭矩储备、牵引力大、机动、灵活、转弯半径小等特点，同时具有较高的越野性能和作业的适应性，具有流线型的外观设计，使得平地机整体更美观、和谐，人性化的驾驶室布置更具舒适性，大功率的空调配置，使作业条件更加优化，驾驶室前挡风玻璃的弧面造型，让驾驶员视野更加宽阔。

Zoomlion PY190 Grader is the first-class production designed with the international popular three-dimensional design tool-I-deas, manufactured by advanced manufacturing-approaches, based on the experiences of many inland or overseas grader-manufacturers. PY190 Grader provides appropriate reserve output-torque, powerful traction, high degree of flexibility, small turning radius, as well as excellent cross-country performance and adaptability. With a streamlined appearance, the machine is specious and harmonious. With the ergonomic design, the driver's cab is comfortable. With the great-power air conditioner, the operating environment is optimized. With the arc front windshield, the driver has a wide visual field



主要性能特点

制动系统:

行车制动系统采用德国力士乐公司液压件，液压力式制动器，作用于中后四个驱动轮；驻车制动采用毂式手制动器，作用于变速箱输出轴，确保行车安全可靠。

Braking System:

The steering braking system is of hydraulic hub brake, the hydraulic components is imported from Rexroth Co. of Germany, which function on the four middle-rear driving wheels. The parking system is of hub hand-brake, which functions on the output shaft of gear box to ensure the safety during working and traveling.



驾驶室:

采用独特的弧面造型，视野更开阔，密封性好，噪音低，配有可调节座椅，进口的电气仪表，座椅式空调等设施，驾驶舒适。

Driver Cab:

Be of the particular arc type cab, with good vision, nice enclosing, low noise, adjustable seat, imported electric instruments, air-conditioner below seat, etc.

操作系统:

采用进口HUSCO五联多路阀，各阀均有单独的操纵手柄，使得操作更灵活可靠。

Operation System:

Be equipped with imported HUSCO multi-way valve, each valve has separate operating handle to ensure the performance reliable.



铲刀:

采用独特的双滑轨机构，工作刀片采用高强耐磨材料，铲土角的变换采用双油缸控制，平衡性好，可根据土壤硬度的不同，灵活地控制铲刀的切入角度。

Blade:

Adopting the dual-sliding mechanism, the blade is of the high-strength anti-wear material. The blade cutting angle can be controlled easily by two cylinders according to the hardness of the ground.



回转工作系统:

系统采用耐磨材料，确保铲刀转动灵活、平整度高、维护费用低。

Swiveling Structure:

Adopting anti-wear material to ensure the blade being flexible, high-accuracy performance and easy maintenance.

主要技术参数 Main Technical

基本参数 Basic Parameter

发动机型号 Engine model	上柴 D6114ZG1B
额定功率 Rated power	140 Kw
额定转速 Rated rev	2300 rpm
整机外形尺寸 Contour dimension (mm)	10890X2595X3280
整机重量 Overall weight	15400 Kg
前桥轴荷 Load on front axle	4440 Kg
后桥轴荷 Load on rear axle	10960 Kg
轮胎规格 Tyre type	17.5-25PR14
最小离地间隙 Min.gound clearance	400 mm
前后桥距 Axle base between front and rear axles	6205 mm
双后桥中心距 Back axle-tandem base	1550 mm

工作参数 Working Parameter

前轮最大倾斜角 Max.tilting angle of front wheel	± 45°
前轮最大转向角 Max.steering angle of front wheel	± 17°
前桥最大摆动角 Max.swing angle of front axle	± 15°
车架转向角 Frame steering angle	± 25°
最小转弯半径 Min.turning radius	7.8m
最大提升高度 Max.lifting height	460mm
铲刀最大侧倾角度 Max.side tilting angle	90°
最大铲土深度 Max.digging depth	500mm
回转角 Swiveling angle	360°
长度 X 弦高 Length X height	3965 X 610mm
切削角 Cutting angle	30° ~61°

性能参数 Performance

前进速度 Forward speed	5、8、11、17、25、36km/h
后退速度 Reverse speed	5、11、25km/h
最大牵引力 Max.traction force	80KN
最大爬坡能力 Max.grade-ability	36%
工作系统压力 Working system pressure	16MPa
变速箱压力 Gear Box pressure	1.3~1.7MPa
轮胎充气压力 Tyre pressure	1.75bar

加注油量 (参考值) Oilfilling volume (for reference)

燃油箱 Fuel container	200L
发动机 Engine	24L
变速箱 Gearbox	28L
平衡箱 Total volume in balance container	46L
驱动桥 Driving axle	28L
液压油箱 Hydraulic tank	90L
蜗轮箱 Turbine box	2.5L



维修与保养：
流线型的发动机罩壳，美观大方，
便于发动机的维修与保养。
Maintenance and service:
Be of the streamlined engine
housing, with nice appearance
looking and easy maintenance
and service.



机架：
采用箱型焊接结构，强度高、刚性
好，不易变形。
Frame:
Be of the welding structure, be-
ing strong and not easily
deformed.



转向系统：
采用单泵单回路液压系统，配合铰
接车架，使整机转向机动灵活。
Steering System:
Adopting single-pump and single-
loop hydraulic system together with
the articulated frame to ensure the
sensitivity of steering.



传动系统：
采用自动锁紧、脱开的“NO-SPIN”
防滑差速器，加强型平衡箱、重型滚
子链传动确保传动平稳可靠。
Transmission System:
Adopting self-lock/unlock NO-SPIN
anti-slide differential device, strong
balance box and heavy roller
transmission, to ensure the trans-
mission working properly.

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machine. Other things will be done by us.*

长沙中联重工科技发展股份有限公司

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