

CHANGLIN

小型挖掘机系列
Crawler Excavator

ZG3085-9

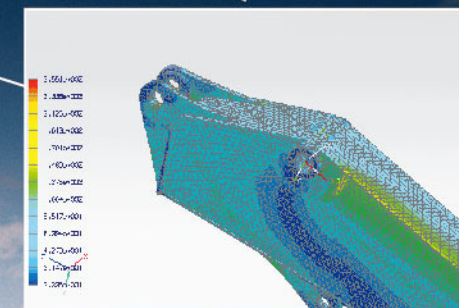


百年工程机械制造经验
世界领先的卓越配置

额定功率: 53.1KW/2200rpm
操作重量: 8100kg
铲斗容量: 0.37m³

装备世界 · 创造价值
Equip the world and create value

耐负荷提升 **20%** ↑



通过对动臂及斗杆的有效元分析，有效的延长了使用寿命
By FEA to boom and stick, the lifespan is extended and load resistance lifted by 20%

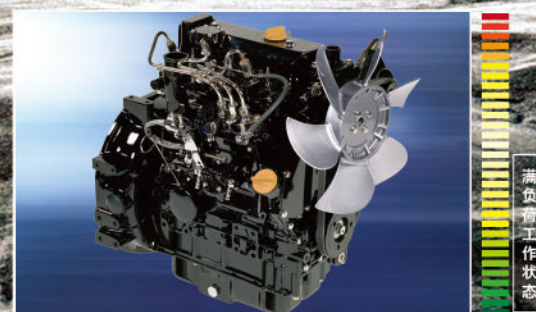
更稳固 More steady

更舒适 More comfortable



符合人体工程学, 视野和通风条件更好
Fit human engineering with better view and ventilation conditions

更省油
Lower consumption



轻量化 强动力 油耗降低 **30%** ↓
Less weight but high power.
Fuel consumption reduced by 30%

满负荷工作状态



● 多功能监视器
Multi-function monitor

● 宽敞的脚部空间
Broad foot space



● 高度灵敏的先导阀手柄
Sensitive joystick

● 合理的开关配置
Reasonable button distribution



● 油缸缸体内面，经过滚光加工，达到了良好的粗糙度及表面硬度，提高了耐磨性。
The cylinder inside is applied roll finishing, and reaches excellent roughness and hardness, which increases its resistance.
● 活塞杆镀镍硬铬，提高了防锈、耐磨以及耐伤性能。
Chrome and nickel plated piston rod acquires better rust protection and resistance.



● 铲斗使用加厚钢板，铲齿有效部分厚度和长度均得到有效加强，提高了铲齿的耐磨寿命。
Steel plate of bucket is thickened. The teeth have more wearing resistance due to their valid parts are thickened and lengthened.
● 连接销应用烧结衬套，提高了耐磨性。
Connecting pin applies sintered sleeves and adds its resistance.



● 加强的箱式结构车架全部由低应力，高强度钢板焊接而成
Strengthened chamber frame is totally welded by low stress and high strength steel plate
● 标配全护板
Standard guard board



灵活 高效性

- 配备日本洋马发动机，高耐负荷、强马力输出，具有可靠性高、燃油消耗低等优点，可显著降低使用和维护成本。
- 具有机动灵活、整机重量轻等优点，更适应空间狭小的施工环境，可广泛应用于市政、道路、管网、厂矿企业等施工场地。

Flexible & High efficiency

- The excavator is equipped with Japan Yanmar engine with high load-resistance, strong horsepower output, high reliability and low fuel consumption which will significantly reduce operation and maintenance expenses.
- The advantages of higher flexibility and lighter weight ensure better performance in small working areas like city construction jobsite, road building, pipe installation, mining and so on.

快速 可靠性

- 新型液压系统设计，挖掘机的执行机构动作响应更快。
- 液压元件布置紧凑、接管少、故障率低，可靠性和效率更高。
- 具备回转优先以及扭矩控制功能，能大大提高工效，节能效果显著。
- 多年的结构件设计、生产经验，使结构件更稳定耐用。

Speed & Reliability

- New design of hydraulic system leads to faster response.
- Compact layout of hydraulic components with less joints brings about less failures, higher reliability and better efficiency.
- Rotation priority and torque control, can provide higher efficiency and energy-saving.
- Many years of experience in design and production of frame structure make them more stable and durable.

科技 便捷性

- 采用智能化的电子监控系统，实时对系统状况进行监测，自诊断故障报警、维护保养信息提示，能保证挖掘机得到及时保养与维护。
- 配备大型液晶显示器，方便操作人员获取信息。

Technology & Convenience

- Intelligent electronic monitoring system showing real-time operating conditions, self-diagnostic fault alarm、maintenance schedule alert can guarantee prompt maintenance and repair to excavator .
- Operating information is easily readable on big LCD screen.

成熟 舒适性

- 符合人体工程学的司机室，美观大方、宽敞明亮，视野和通风条件更好。
- 可调式座椅，适应各种使用要求。
- 冷暖空调配置，创造了更加舒适的操作环境。

Sophistication & Comfort

- Ergonomics- oriented cab boasts beautiful appearances, big space, good vision and ventilation.
- Adjustable seat is capable of every gesture.
- Air conditioner creates agreeable air in the cab.



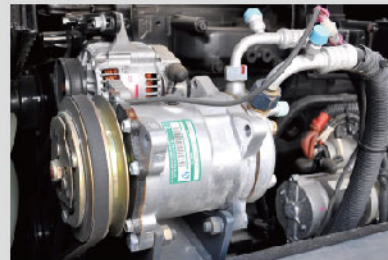
强大的发动机为基础，稳定的下部行走，斜坡攀登及挖沟作业更轻松。
Supported by powerful engine and steady undercarriage, the excavator can make easier slope moving and trench excavation.



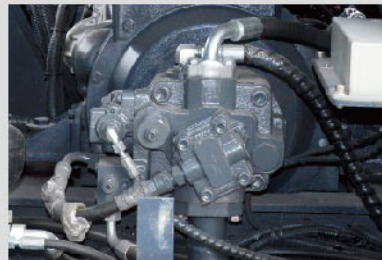
铝制冷却装置在满负荷和连续作业的情况下，也能起到良好的散热效果。
Aluminum cooler can even have excellent heat dissipation under full load and continuous operation.



基于CAE技术设计的发动机，在降低能耗的同时，提供更强大的动力。有效避免噪音及振动。
CAE based engine can be both powerful and energy-saving. Less noise and less vibration.

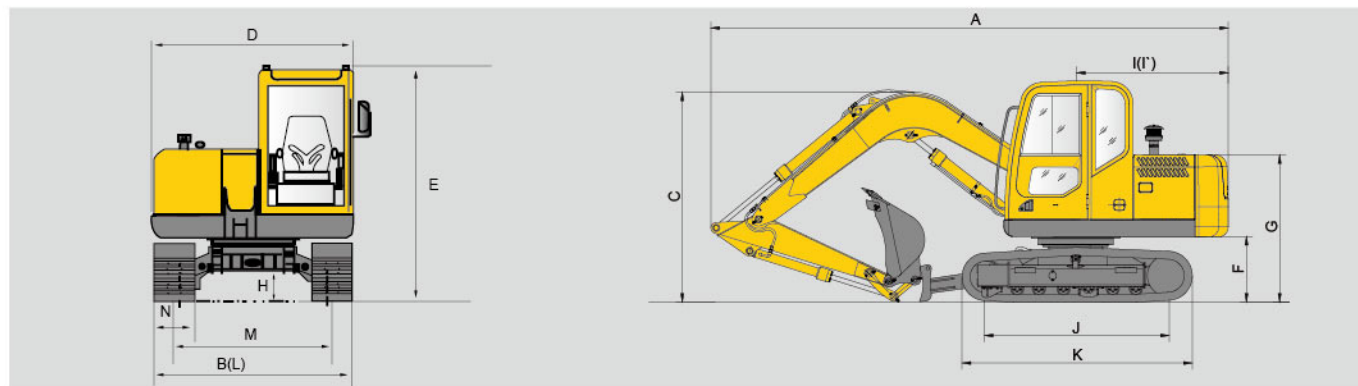


空调压缩机制冷效果更卓越，皮带装置维护更方便。
Air compressor gives better refrigeration. Belt devices are easier to maintain.



液压主泵流量控制系统更优越，通过自动调节使执行工作装置反应速度更快，大大提高工作效率。
Main hydraulic pump is equipped with better control system and makes the working devices smarter, which produces much higher efficiency.

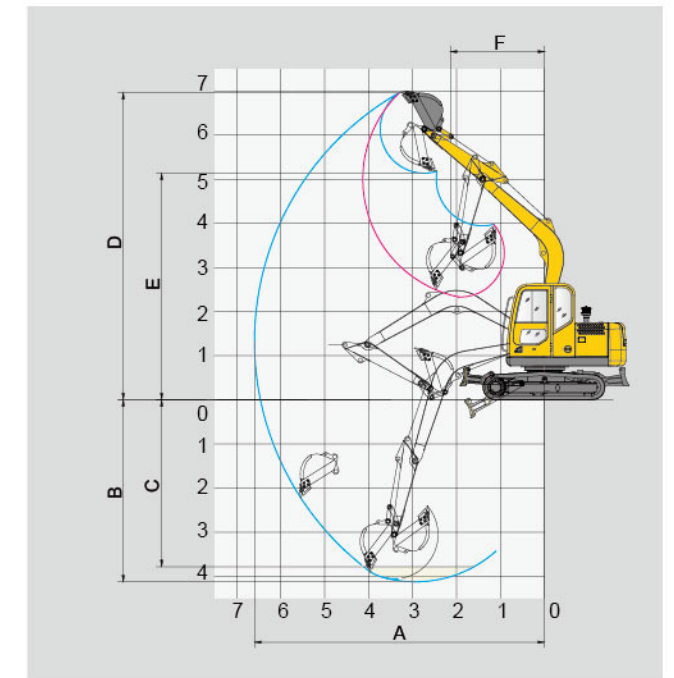
外形尺寸 Dimensions(mm)



项目Item	单位Unit(mm)	项目Item	单位Unit(mm)	项目Item	单位Unit(mm)
A 整机总长Overall length	6450	F 配重离地间隙Ground clearance of counterweight	785	J 履带轴距Track wheelbase distance	2200
B 整机总宽Overall width	2210	G 发动机机罩高Height of engine cover	1775	K 底盘长度Chassis length	2835
C 整机总高(动臂) Overall height of boom	2615	H 最小离地间隙Min. ground clearance	370	L 底盘宽度Chassis width	2090
D 转台宽度Width of platform	2210	I 转台尾端长度Length of platform	1850	M 履带轨距Track gauge	1640
E 整机总高(驾驶室) Overall height of cab	2615	I' 尾端回转半径Rear swing radius	1850	N 标准履带宽度standard width of track shoe	450

作业范围 Working Range

项目Item	单位Unit(mm)
A 最大挖掘半径Max. digging reach	6675
B 最大挖掘深度Max. digging depth	4245
C 最大垂直挖掘深度Max. vertical wall digging depth	3945
D 最大挖掘高度Max. digging height	7120
E 最大卸载高度Max. dumping height	4985
F 前部最小回转半径Min. swing radius	2140



规格 Specifications

整机工作重量Operating weight	8100kg
标准铲斗容量Standard bucket capacity	0.37M³
斗杆长度Arm length	1730mm
动臂长度Boom length	3904mm

发动机 Engine

型号Model	Yanmar 4TNV98T-SFN
型式Type	直立，四冲程，水冷，直喷式，增压
功率Power	53.1kw
最大扭矩Max. torque	286.9~312.7N.m
气缸数No. of cylinders	4
排气量Displacement	3.319L

液压系统 Hydraulic system

主泵Main pump:	
类型Type	轴向变量柱塞泵
最大排量Max. displacement	90ml
主溢流阀设定压力Working pressure	27.5Mpa
液压马达Hydraulic motor:	
回转Swing	轴向定量柱塞马达
行走Trave	轴向变量柱塞马达

性能 Performance

回转速度Swing speed	12
最大行走速度高/低Max. travel speed H/L	4.5~2.5km/h
爬坡能力Gradeability	30°
铲斗最大挖掘力Max. digging force of bucket	53KN
斗杆最大挖掘力Max. digging force of arm	44KN
接地比压Ground pressure	37Kpa

油箱容量 Tank capacity

燃油箱容积Fuel tank capacity	138L
液压油箱容积Hydraulic tank capacity	95L