



# ET110

## 步履式挖掘机 Spider Excavator



# ET110 型 步履式挖掘机 Spider Excavator



**ET110**步履式挖掘机是一种可在高原、平原地区使用的、能适应各种地形、多用途的步履式挖掘机。它采用轮式行驶与步履运动相结合的复合型底盘，即可全轮驱动，亦可步履行进。因此可以进入其他机械设备无法到达的区域实施多种工程作业，通过安装不同的工作机构，具有挖掘、起重、破碎、钻孔等多种作业功能。其整机高度可调，重心低，可以步履翻越45°陡坡，可以在最大35°的斜坡上作业。其作业平台可在最大斜角为20°的情况下实现全回转。该机特别适合于在山地、林地、湿地等特殊环境条件下进行工程施工，也可用于市政工程、水利工程施工中一般设备不能使用的场合。

The **ET110** Spider Excavator is an all-terrain, multi-purposed excavator that can be used in both highlands and plains. This machine adopts a compound chassis, which is combined by All-Wheel Drive and Walking Movement, and can be operated in several engineering situations where other construction machineries can not reach. With different working devices, this machine can carry out various kinds of functions, such as excavating, lifting, crushing and drilling. This machine has an adjustable height, low center of gravity, and is able to walk over a slope of 45° and be operated on a slope of max. 35°. The operation platform can make a full circle of swinging with a bevel angle of max. 20°. This machine is particularly suitable for engineering operations in special environment, like forest and wetland, and as well as some occasions of urban construction or irrigation engineering where the regular equipment can not be used.



## 强大的地形通过能力

**ET110** 步履式挖掘机底盘采用了步履、轮式驱动的复合式结构，能全轮驱动、全轮转向、轮腿复合；车轮驱动设有速度感应控制和液压差速功能，实现了差速不差力，能适应全地形行驶和作业，步履爬坡能力达到45°，可到达其他设备不能到达的区域。

## Powerful All-terrain Trafficability

**ET110** Spider Excavator adopts walking-pedrail structure with All-Wheel Driving and Turning. The wheels and legs can be operated at the same time. The All-Wheel Driving is designed with speed sensor control and hydraulic differential function. It is applicable for driving and operating in all-terrain and can walk over a slope of max. 45°. This machine can reach some areas where other machines can not go through.







## 复杂环境下的作业能力

ET110型步履式挖掘机不仅可在普通环境下作业，在高寒、高海拔地区，陡峭的山坡、水网、沼泽地带一样可以自如的作业，独有的极限载荷调节技术，轻松实现高原、平原动力最佳匹配，不需重新调整发动机即可在高原与平原地区使用。可快速更换多种工作装置。

## Outstanding Operating Capability in Complicated Environment

The **ET110** Spider Excavator can be operated not only under the normal conditions, but also in high and cold areas, high altitude, steep slope, water system and marshy terrain. Its unique ultimate load adjusting technology can make the power easily to be optimally distributed in both highlands and plains without the need to readjust the engine. The working devices can be replaced speedily.

## 高度集成的电液操控系统

通过自主编制的专用控制软件、CAN总线技术和可编程控制器对液电系统进行集成，可将全车各路信息全部进行收集和智能化管理，提高了整机的稳定性、安全性和可靠性；设计的多功能电液集成操纵手柄，可控制整机48个动作，使操作方便、准确、灵活、易学，达到了操作相对简单的目的。



## Highly Integrated Electro-hydraulic Controlling System

The information from every system of the machine can be collected and intelligentized managed through special control software, CAN hyper transport technology and PLC integration in electro-hydraulic controlling system, which has improved the machine's stability, safety and reliability. The designed multi-functional controller handle, which is in charge of 24 actions of the machine, makes the operation process convenient, accurate, flexible and easy to learn.





## 完善的系统安全设计

系统配置动臂下落自动保护装置、底盘支腿油缸液压锁，可防止设备在使用中管路损坏带来的意外危险；平台倾角传感器可及时提示操作中平台倾翻风险；陡坡作业时可利用液压绞盘作辅助牵引保护。最大起重力矩限制安全阀和报警装置，确保起重作业安全。

## Perfect Design for System Safety

The machine is equipped with an automatic protection device for the operating arm and hydraulic lock to outer rigger tank on chassis, which can prevent the unexpected accidents from piping failure; The accustar sensor in the platform can timely point out the roll-over risk; The hydraulic winch can be used as assistant protection for towing when working on slope; The max. lifting torque restricts the safety valve and warning device, to ensure the safety of lifting operations.

## 完备的液压动力接口

配有7路液压动力接口，可配液压破碎锤、植桩器、液压绞盘等，实施破碎、植桩和救援作业；可为液压钻机、液压振动铲、液压剪等多种液压机具提供液压动力，完成钻孔、凿岩和混凝土破碎、松土等作业。

## Complete Interface for Hydraulic Power

7-way hydraulic power interface is applicable for hydraulic breaker, hydraulic grabber, feller, implanter, and hydraulic winch etc. in operations for crushing, material grabbing, lumbering, planting and rescuing; can offer hydraulic power for the hydraulic driller, hydraulic vibrospade, hydraulic scissor and other hydraulic tools in operations for drilling, rock drilling, rubblizing and scarification.



Spider Excavator ET110



## 便捷的维护性能

驾驶室翻转与打开机罩后，可方便的维护发动机与液压系统；轮边减速机具有机械脱开装置，便于故障时机器拖行。

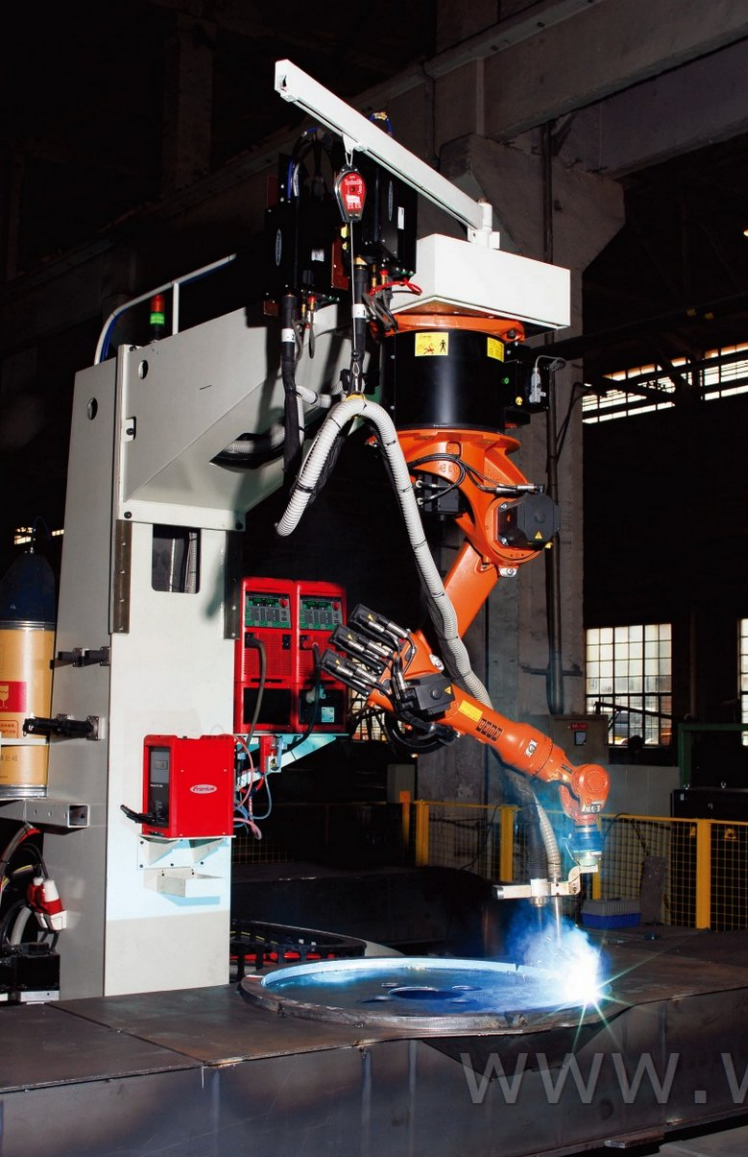
## Easy Maintenance

The engine and hydraulic system can be easily maintained after the cab being turned over and cover opened.

The wheel speed reducer has a mechanical release device which helps to towing the machine when it has troubles.







## 先进可靠的制造

拥有五面体加工中心、机器人焊接线、激光下料等国际先进制造设备，运用多种专用焊接和加工工装，有效地保证了制造质量。

## Advanced and Reliable Manufacture

Our factory is equipped with international advanced manufacturing equipment, such as the pentahedron CNC, robot welding line, laser cutting etc. Various kinds of special welding and machining tools can effectively ensure the high quality of manufacturing.

## 可选附件 Optional Accessories



浮土斗  
Soft soil bucket



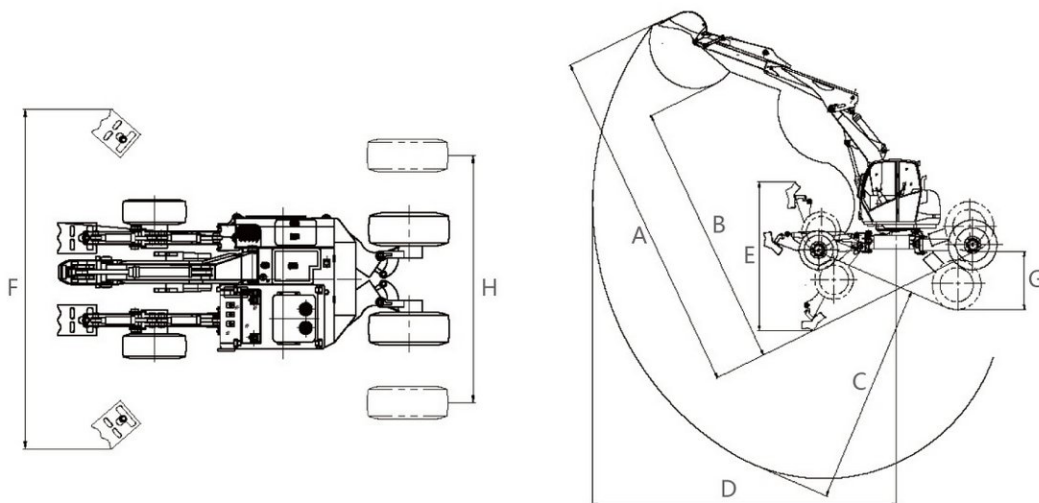
快换装置  
Quick changer



液压破碎锤  
Hydraulic hammer



液压绞盘  
Security winch



## 主要技术参数 Main Technical Specifications

项 目	Items	单位 Unit	技术参数 Technical Data
整机重量	Machine Weight	kg	11000
斗容	Bucket Capacity	m <sup>3</sup>	0.3
发动机型号	Engine Type		Cummins 4B3.9
发动机功率	Engine Power	kW	93@2200r/min
斗杆挖掘力	Jib Digging Force	kN	47
铲斗挖掘力	Bucket Digging Force	kN	63
最大起重能力	Max. Lifting Capacity	kN	56(3m)
最大挖掘半径 (D)	Max. Digging Radius	mm	7780
最大挖掘深度 (C)	Max. Digging Depth	mm	5400
最大挖掘高度 (A)	Max. Digging Height	mm	8800
最大卸载高度 (B)	Max. Discharge Height	mm	7300
支腿最大调节高度 (E)	Outrigger max. Adjusting Height	mm	3700
支腿最大跨距 (F)	Outrigger max. Outreach	mm	5450
最小回转半径	Min. Gyration Radius	mm	2800
回转速度	Gyration Speed	r/min	0 ~ 10
最大自行速度	Max. Self-walking Speed	km/h	10
最小转弯直径	Min. Turning Diameter	mm	13000
最大步距	Max. Step	mm	5000
步行爬坡能力	Walking Grade Ability	°	45
最大适应作业坡度	Max. Applicable Working Slope	°	35
最大适应作业横向坡度	Max. Applicable Working Cross Slope	°	25
(选装) 绞盘标定拉力	(Optional) Winch Pulling Capacity	kN	30
运输外形尺寸 (L×B×G)	Outside Dimension at Transportation ( L×B×G )	mm	6200×2210×3200
最小运输长度 (铁路)	Min. Transportation Overall Length (Railway)	mm	8950
最小运输高度 (铁路)	Min. Transportation Overall Height (Railway)	mm	2540
最小运输宽度 (铁路)	Min. Transportation Overall Width (Railway)	mm	2210

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