山河智能装备股份有限公司

SUNWARD INTELLIGENT EQUIPMENT CO.,LTD.

地 址:湖南·长沙·星沙·凉塘东路1335号·山河工业城

Add: Sunward Industrial Park, No. 1335 Liangtang Road (E), Xingsha, Changsha, Hunan, China

电 话(Tel): 销售热线:400-887-6230 服务及投诉热线: 400-887-8230

+86 731 8640 7779 (International)

邮 箱(E-mail): sales@sunward.com.cn marketing@sunward.cc(International)

网 址(Web): http://global.sunward.com.cn/

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SWCH780 CH&EN 2021





SWCH780H-165M 全液压履带桩机



主要特点

Technical features

■ 高稳定性专利底盘 Patented Chassis with Excellent Stability

采用具有自主知识产权的高稳定性履带底盘,两侧履带行走装置支架均为π形横梁整体结构,π形横梁在底盘中间同轴插接重叠,即使是履带最大展宽时,两π形横梁也保持相互搭接。

The crawler chassis is high stable and obtains a series of certificates of proprietary intellectual property rights. Both sides of crawler travelling mechanism are supported by π -shaped cross beams which overlap with a shaft in the center of the chassis. Thus, two π -shaped cross beams still connect with each other even if the crawler extend to its limit.

该结构可实现不拆卸履带运输,相同运输宽度下可实现更大展宽,结构上确保了桩机的稳定性。底盘结构参数、稳定性、最高立桅高度行业领先。

The frame ensures the stability of the pile driver, as for transportation without dismantling crawler and wider crawler extension under the same transport width. Besides, this machine is advanced in the industry for its structural specifications, stability and the highest height of vertical mast.

 底盘及运用该底盘的工程机械已经获得中国、日本、韩国发明 专利授权。

The chassis and its applied engineering machinery are gained invention patent certificates issued by China, Japan and Korea.







■ 高强度立柱 High Strength Vertical Column

● 立柱直径达到820mm,立柱法兰采用整体式法兰,立柱下端十字轴和上部双斜支撑构成立柱的铰接三点支撑,使立柱作前后左右任意方向的倾动,为搭载工作装置提供可靠和机动灵活的支持。820mm diameter, whole-type flange, and hinge joint three-point support formed by the bottom universal joint pin and top dual inclination strut that enable the vertical column tilting forward or backward optionally and provide support for loading work equipment stability and mobility.

● 可根据施工需求,配置背拉绳机构或自平衡式鹅头,可有效提高 最大允许提拔力并保证立柱的可靠性。

Back rope mechanism or self-balanced goose-head structure are optional to improve lifting force efficiently and ensure column reliability.



■ 多功能集成卷扬机组 Multi-functional Integration Winches

由主卷扬、副卷扬、吊物卷扬、吊篮卷扬、立桅卷扬5个卷扬集成的卷扬机组, 其中前三种卷扬具有自由落钩功能,可适应多种工法的施工要求。

The integration winches can meet multiple construction requirements that include the main winch, the auxiliary winch, hoist winch, basket winch and vertical mast winch with the first three of them has the free hook dropping function.

 主副卷扬容绳量大、单绳最大出力大,单绳速度快,并可实现钻进时的浮动 低速控制和无级微速控制,满足入岩层钻进和特殊工法施工要求。

As for the main winch has the large rope capacity with quick and strong capacity of single rope, the floating low-speed control and stepless micro-speed control can be achieved to satisfy the demand of rock drilling and special construction.



SWCH780H-165M 全液压履带桩机

主要特点

SWCH780H-165M All Hydraulic Crawler Pile Driver

Technical features

■ 先进的电液控制系统和简洁的人机交互界面 Advanced Electro-hydraulic Control System and Succinct Interactive Human-machine Interface





- 采用集数据采集与存储、虚拟仪表、总线传输、多屏监控、故障诊断于一体的智能控制系统,实现安全、可靠、高效施工。
- The intelligent control system guarantee high safety, reliability and efficiency which is combined with data collection & storage, virtual panel, bus transmission, multi-screen monitoring and failure diagnostic functions.
- ■显示屏主界面实时显示立柱角度、提拔力、深度、油泵压力、油温、发动机等参数,人机交互界面直观、友好、简洁。
- The visualized, friendly and succinct human-machine interactive interfaces display the vertical column angle, lifting force, depth, oil pump pressure, oil temperature and engine data in real time.
- 主动作和辅助动作操作手柄分区域布置,主动作采用液压手柄控制,可靠、 省力。均前后方向操作,适应桩架类产品的行业习惯。 Control levers for main and auxiliary movements are laid out by area. The main movement are controlled by reliable and easy hydraulic lever. All levers are designed to operate forward or backward in consideration of piling machine industry practice.
- 驾驶室宽敞美观明亮、操作舒适。
- The cab is spacious, beautiful, bright and comfortable to operate.
- 驾驶室控制功能多样化,具有手柄卡位、卷扬无级别微速功能、多屏监控、 提拔力限制、工作装置上限位、预留油源接口和控制等功能。

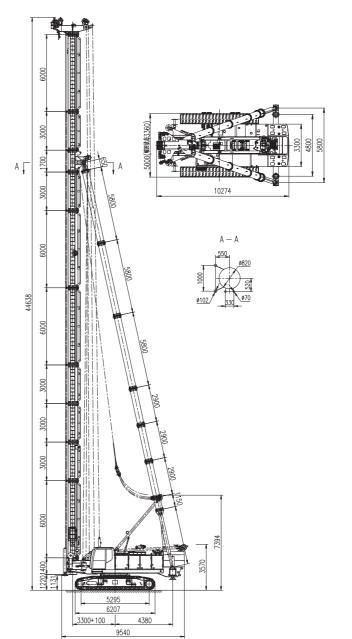
The spacious and bright cab provides a comfortable working environment in which there are various control functions: lever locking, stepless micro-speed adjustment for winch, multi-display monitoring, lifting force limitation, upper limitation for work equipment, reserved oil supply port and control, etc.

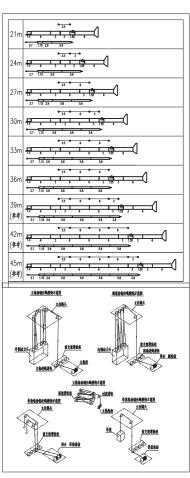




外形尺寸图

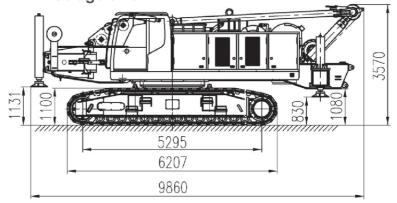
Boundary dimension

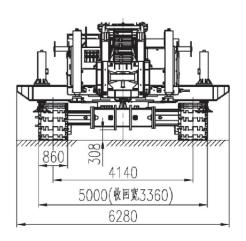




机身外形图

Fuselage size





SWCH780H-165M 全液压履带桩机

主要技术参数

SWCH780H-165M All Hydraulic Crawler Pile Driver

Main technical data

	项目 Item	单位 Unit	SWCH780H-165M	备注 Remark
 发动机	型号 Model		QSB6.7-C260	康明斯制 Produced by Cummins
Engine	额定功率 Rated power	kW	194	
桩架立柱 Vertical column of pile frame	立柱长度 Length	m	21、24、27、30、 33、36、39、(42)、(45)	括号内为特殊配置 Special configuration with "()"
	立柱直径 Diameter	mm	Φ 820	
	主滑轨规格 Main slideway	mm	Φ 102×1000	
	副滑轨规格 Auxiliary slideway	mm	Φ 70×330	
	允许最大提升力 Allowed max. lifting force	kN (t)	666 (68)	
外侧卷扬 Outside winch	单绳速度 Single rope speed	m/min	96/48	有微速、浮动钻孔等功能 With function of micro speed and floating drilling
	单绳拉力 Single rope pulling force	kN	98	
	钢绳直径 Wirerope diameter	mm	20	
	容绳量 Rope capacity	m	550	
内侧卷扬 Inner winch	单绳速度 Single rope speed	m/min	96/48	有微速、浮动钻孔等功能 With function of micro speed and floating drilling
	单绳拉力 Single rope pulling force	kN	98	
	钢绳直径 Wirerope diameter	mm	20	
	容绳量 Rope capacity	m	450	
吊物卷扬 1/2 Hoisting winch 1/2	单绳速度 Single rope speed	m/min	43	有自由落钩功能 With free hook dropping function
	单绳拉力 Single rope pulling force	kN	98	
	钢绳直径 Wirerope diameter	mm	20	
	容绳量 Rope capacity	m	130	
立桅卷扬 Mast erecting winch	单绳速度 Single rope speed	m/min	47	
	单绳拉力 Single rope pulling force	kN	98	
	钢绳直径 Wirerope diameter	mm	22/44	
	容绳量 Rope capacity	m	226	
吊篮卷扬 Basket winch	钢绳直径 Wirerope diameter	mm	14	
	容绳量 Rope capacity	m	110	
履带底盘 Track chassis	履带最大展宽 Max. extended width of crawler	mm	5000	
	履带收缩宽度 Retracted width of crawler	mm	3360	
	履带板宽度 Track shoe width	mm	860	
	履带长度 Track length	mm	6207	
	两履带轮中心距 Centre distance of two cra wher wheels	mm	5295	
	行走速度 Traveling speed	km/h	0.6~1.1	
	上车回转速度 Swing speed of upper carriage	r/min	0.5~1	回转角度360° Slewing angle 360
	爬坡能力 Gradeability	٥	21.8 (40%)	仅限机体 For the body only
外形尺寸 (长×宽×高) Boundary dimension (L×W×H)	工作状态 In working status	m	10.5×6.3×47.7	
	运输状态 In transport status	m	10.7×3.36×3.57	
配重质量 Counterweight		t	19	
整机允许最大行走质量 Allowed machine max. travelling weight		t	165	工作装置搭载时,详见说明书 Loaded with work equipment, please check the instruction manual
接地面积 Ground contact area		m²	9.107	
接地比压 Ground contact pressure		MPa	0.178	

***由于本产品的不断改进完善,因此上表中参数可能有所改变,恕不能预先告知。 As the product is being continuous improvement, the data may be changed without notice in advance.

售后服务 After-sale service



Pre-sales services

- We offer sufficient consultations and suggestions for customers.
- Assist customers to select suitable equipment for the rock conditions.
- Design and manufacture products according to customers' requirements.
- Provide technical training for customers.

Services during sales

• Fulfill contract and commitments in good faith.

After-sales services

- Install and debug equipments and train operators on site.
- Timely troubleshoot problems on site.
- Supply spare parts in time.
- Periodically offer routine inspection services to the equipments.
- Periodically revisit customers and know their needs.