



SWDE165B DOWN-THE-HOLE DRILLING RIG 一体式潜孔钻机

全新一代产品，专为高生产力打造为绿色智能钻爆而生，钻孔直径138-180mm，自动接卸杆最大钻孔深度为36m
A new generation of products, specially designed for high productivity for environmentally intelligent drilling and blasting. Drilling diameter of 138-180mm, the maximum drilling depth with automatic pick-up and unloading rod is 36m.
产品配置高端、性能稳定、成孔效率高、施工能耗低经济节能，低碳环保
High-end product configuration, stable performance high drilling efficiency, low construction energy consumption, energy-saving, low-carbon and environmental protection.
可配置独特的潜孔、切削一键切换模式，软岩切削，硬岩潜孔，软硬通吃极大拓展产品应用范围，提高作业效率，降低施工成本
Unique one-key switching mode of drilling and cutting can be configured to greatly expand the application range of the product by cutting soft rock and drilling hard rock. Improve work efficiency and reduce construction costs.

特点 FEATERES

自主创新，多年的核心技术积累，高效低耗
Independent innovation, years of accumulation of core technologies, high efficiency and low consumption.
岩层适应性广，具备潜孔和切削功能，软硬通吃
Wide adaptability to rock formations, with the function of drilling and cutting, both hard and soft.
经过多工况严苛环境的市场验证，工况参数匹配优异智能化应用，引领市场发展
Verified by the market in harsh environments under multiple working conditions, with excellent matching of working condition parameters. Intelligent application, leading the market development.

PRODUCT PRESENTATION



安全舒适 SAFETY AND COMFORT

- FOPS & ROPS双认证司机室，满足国际安全标准
The cab with dual certifications of FOPS & ROPS meets international safety standards.
- 司机室采用双层夹胶玻璃，隔噪隔热，让操作手在舒适的环境中操作
The cab adopts double-layer laminated glass, which provides noise insulation and heat insulation, allowing the operator to operate in a comfortable environment.
- 配置10.4寸触控屏，工况数据集中显示，钻机状态直观掌握
Equipped with a 10.4-inch touch screen, working condition data is centrally displayed, and the status of the drilling rig can be intuitively grasped.



维护便捷 CONVENIENT MAINTENANCE

- 秉承“站地维护”设计理念，人站地上日常维护保养触手可及
Adhering to the design concept of "ground-level maintenance", daily maintenance and servicing can be easily completed when people stand on the ground.
- 采用无边框平台设计，便于对钻机内部零件的检查和拆卸
The frameless platform design facilitates the inspection and disassembly of the internal parts of the drilling rig.
- 保养点和参数调整区均集中布局，便于日常的检查和调节
The maintenance points and parameter adjustment areas are all centrally laid out for convenient daily inspection and adjustment.



智能精准 INTELLIGENT AND PRECISE

- 配置孔深和孔倾角测量系统，提高穿孔施工精度
Equipped with a hole depth and hole inclination measurement system to improve the accuracy of perforation construction.
- 选配孔位管理系统，通过孔位校准和共底控制实现精准作业
Configure the hole position management system to achieve precise operations through hole position calibration and common bottom control.
- 矿岩互联施工信息化管理平台，钻机状态及投入产出清晰了然
The information management platform for interconnected mining and rock construction enables a clear understanding of the drilling rig status and input-output.



稳定高效 STABLE AND EFFICIENT

- 耐用的零部件，出色的灵活性，确保钻机出勤率和生产效率
Durable parts and excellent flexibility ensure the attendance rate and production efficiency of the drilling rig.
- 潜孔与切削双工作模式，硬岩潜孔模式，软岩切削模式
Dual working modes of down-the-hole drilling and cutting. Down-the-hole drilling mode for hard rock and cutting mode for soft rock.
- 岩石自适应系统，有效识别应对复杂地况，成孔效率高
Rock self-adaptive system can effectively identify and deal with complex terrain conditions, and has high hole-forming efficiency.



工况适应性强 STRONG ADAPTABILITY TO WORKING CONDITIONS

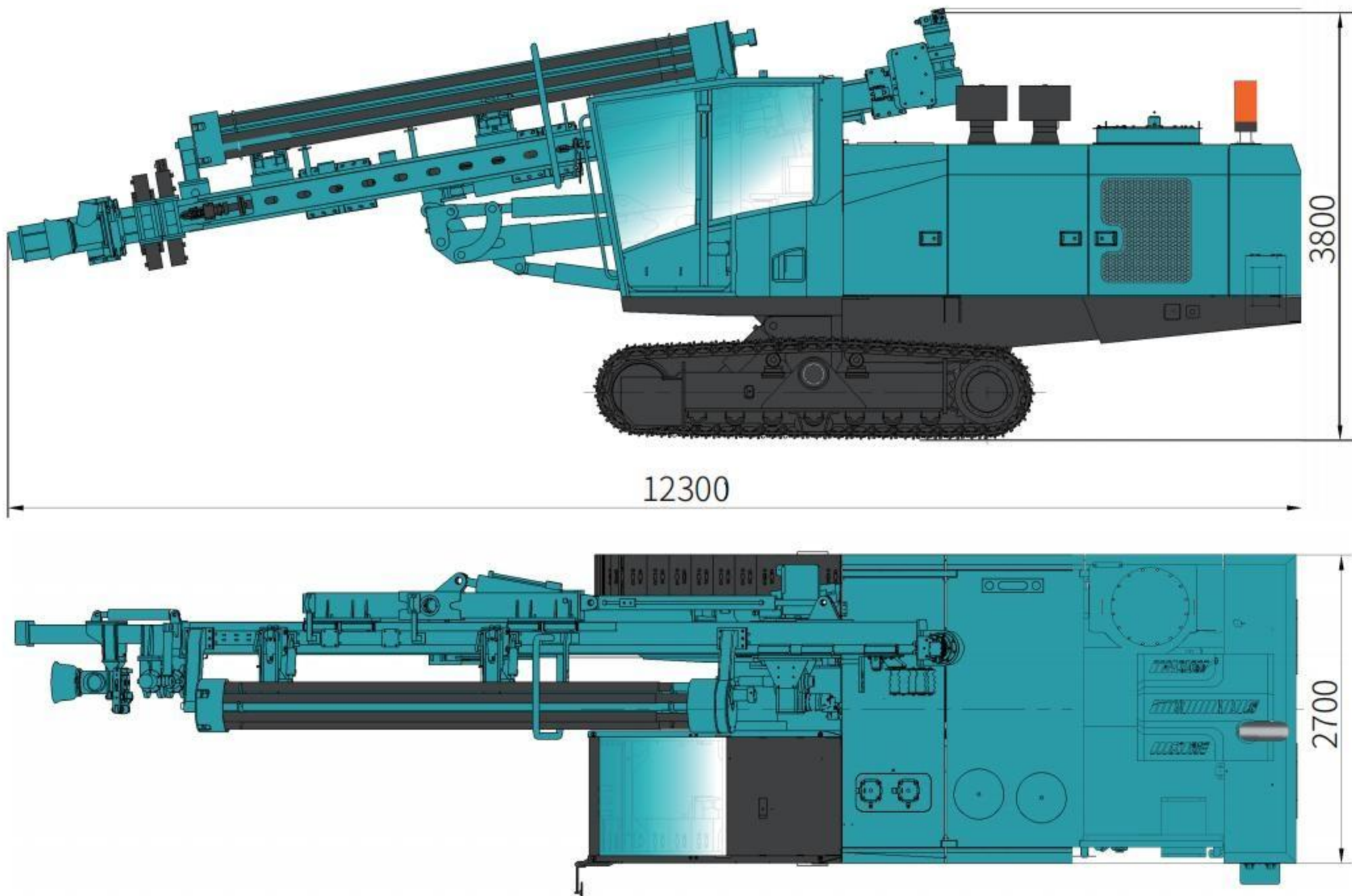
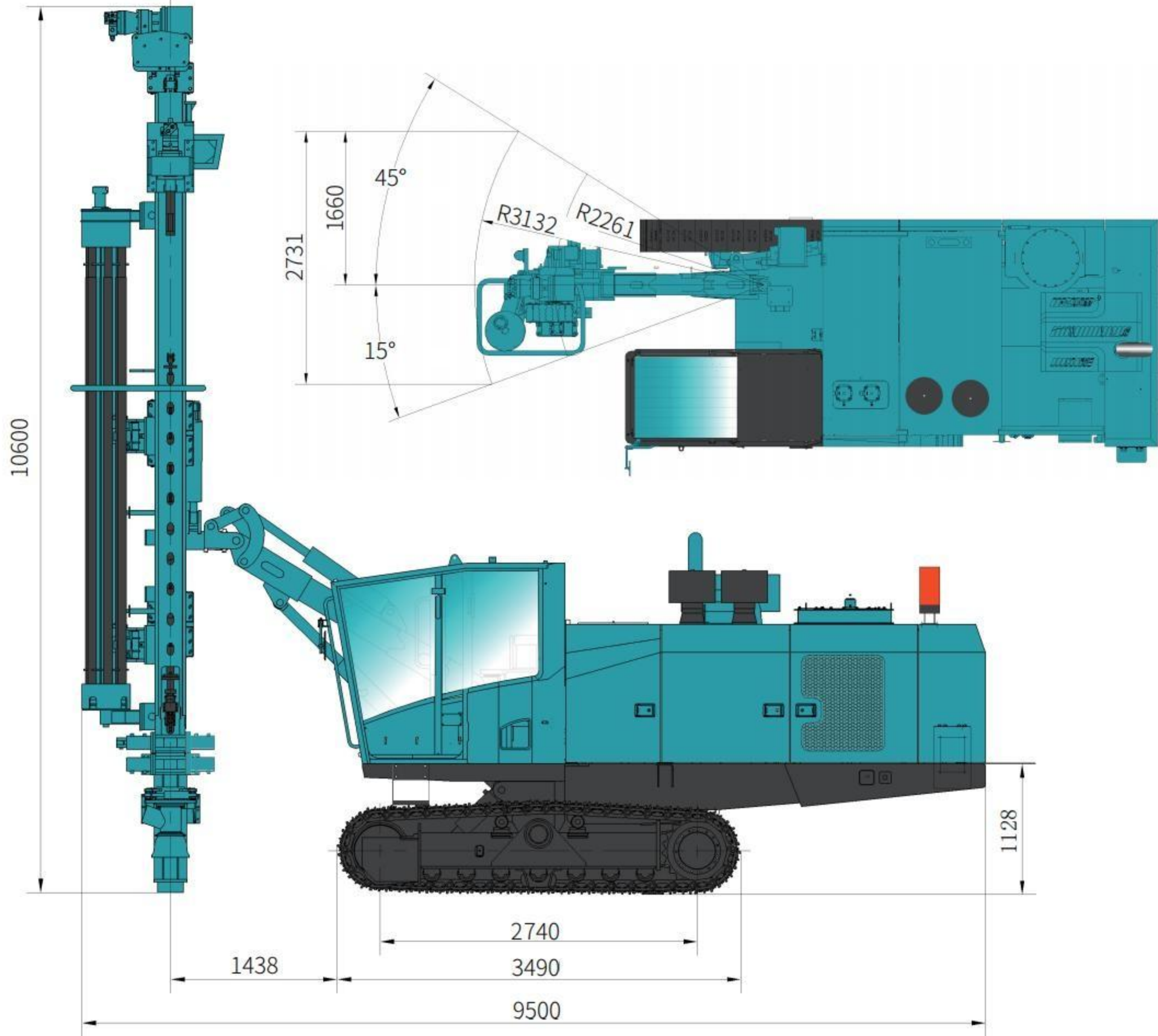
- 成功实现海拔5300m，-60℃低温，53℃高温等恶劣环境下作业
Successfully operate in harsh environments such as an altitude of 5300 meters, a low temperature of -60°C, and a high temperature of 53°C.





TECHNICAL
SPECIFICATIONS

项目 ITEM		SWDE165B
作业参数 Main parameters		
钻孔范围 Hole diameter	mm	138-180
冲击器 DTH hammer	"	5、6
钻杆直径 Tube diameter	mm	102、114
钻杆长度 Tube length	m	6m×6
最大孔深 Maximum hole depth	m	36
除尘方式 Dust collector	干式（标配） Dry(standard) 湿式（选配） Water mist(optional)	
空压机 Air compressor		
工作压力 Working pressure	bar	25
排气量 FAD	m³/min	28.1
发动机 Engine		
品牌 Brand	-	Cummins
型号 Model	-	X12CS3-277-G3
功率 Power rating	kW/rpm	343/2100
燃油箱容积 Fuel tank volume	L	730
推进 Feed system		
推进梁总长 Total length	mm	10520
补偿行程 Feed extension	mm	1300
最大推进力 Feed force	kN	45
前倾角度 Pitch angle	°	140
翻转角度 Turning angle	°	-20-90
钻臂 Drill boom		
举升角度 Lifting angle	°	50~30
摆动角度 Swing angle	°	L15 R45
行走能力 Carrier		
行走速度 Tramming speed	km/h	3.2
最大牵引力 Traction force	kN	180
爬坡能力 Gradeability	°	25
履带架摆角 Track oscillation	°	±10
离地间隙 Ground clearance	mm	480
回转动力头 Rotary head		
回转速度 Rotation speed	rpm	0-150
回转扭矩 Torque	Nm	5500
外形尺寸 Dimension		
重量 Weight	kg	23000
长X 宽X 高(工作尺寸) LxWxH(Work)	m	9.2×2.7×10.6
长X 宽X 高(运输尺寸) LxWxH(Transportation)	m	12.3×2.7×3.8



SUNWARD SWDE165B Drilling Rig



INNOVATION CREATES VALUES

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www.wme.cn/sunward-swde165b/