SANY

SCC1100HD/Z-A

WIELOZADANIOWY ŻURAW GĄSIENICOWY W WOLNOSPADEM

01 Introduce

440t·m
Max. lifting moment

61m
Max. boom length

52m+22.5m
Max. fixed jib combination

Versatile Applications 应用广泛

- Supports soil bucket operations, grabs, slurry wall grabs, piling rig, vibro-compaction, and lifting operations—all in one machine.
- 满足取土、抓斗、连续墙、打桩、振冲、吊装等工况，一机多用。

Outstanding Performance 性能卓越

- Dual 25t free-fall wet-type winches with synchronized operation, soft braking, and modular counterweights for higher efficiency.
- 双25t自由落钩湿式卷扬，具备双卷同步、柔性刹车、分级配重，作业更高效。

Stable & Reliable 稳定可靠

- Equipped with a Cummins engine and a 6.7m wide chassis of Kawasaki system for stable and reliable continuous heavy-duty operation.
- 匹配康明斯发动机及川崎系统的6.7m大底盘，高负荷连续作业更稳、更可靠。

Smart Operation 智能控制

- New C6 intelligent cab with 360° panoramic view, dual 10.1-inch touch screens, and one-touch start/stop.
- 全新C6智能驾舱，360°环视，10.1寸双联触控大屏，一键启停。

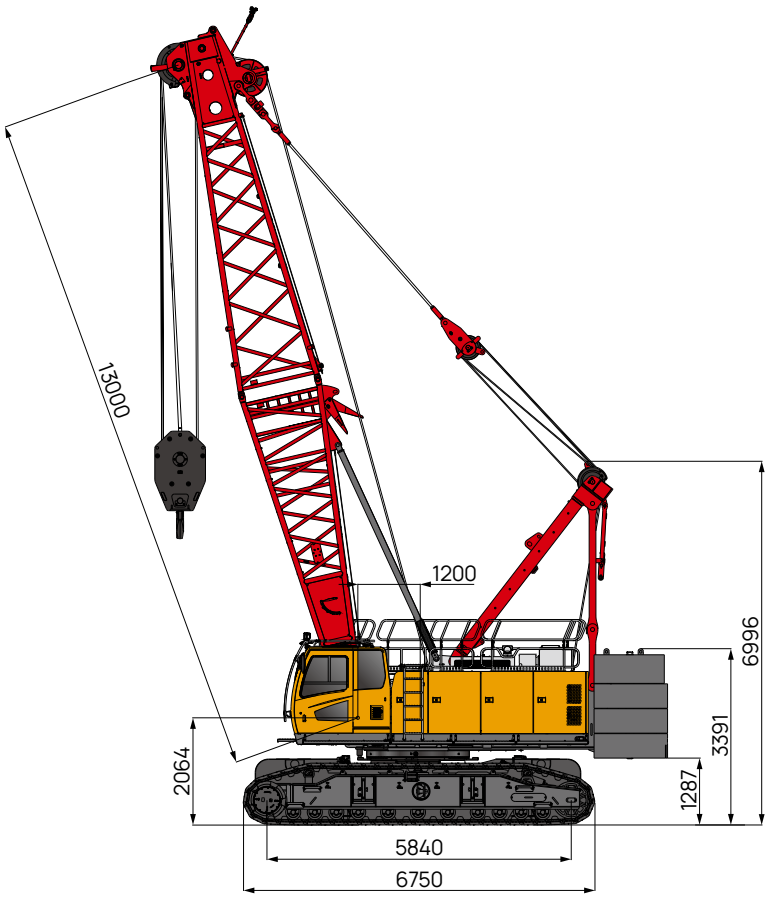
SCC1100HD/Z-A
SANY MULTIFUNCTIONAL CRAWLER CRANE

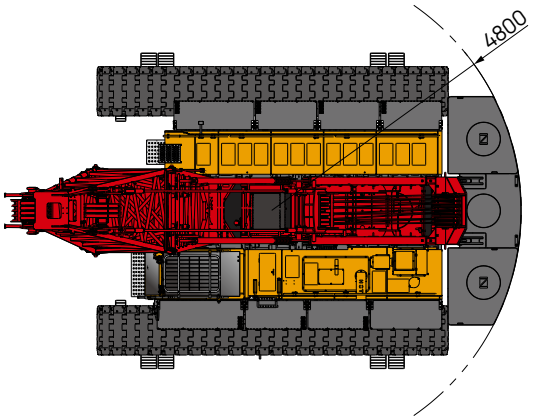

SANY

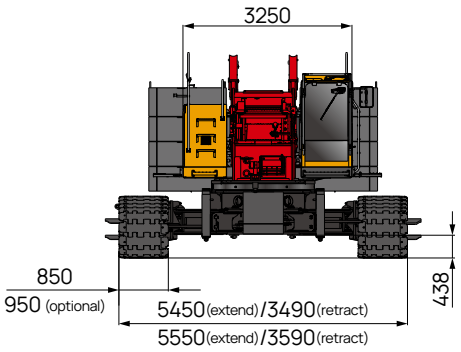
02 Outline Dimension
整机基本尺寸

SCC1100HD/Z-A

Unit: mm



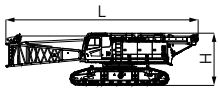
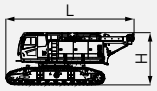
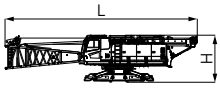
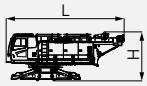
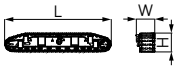
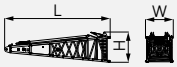
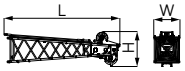
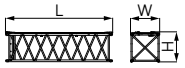
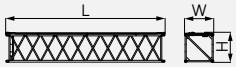
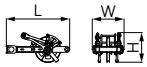
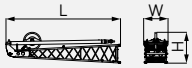
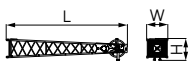
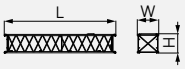




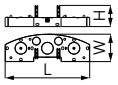
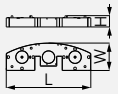
03 Main Performance Parameters
主要性能参数

Performance Indicators 项目	Unit 单位	Parameters 参数
H Configuration 主臂工况		
Maximum rated lifting capacity 最大额定起重量	t	110
Maximum rated lifting moment 最大额定起重力矩	t·m	440
Boom length 主臂长度	m	13~61
Boom luffing angle 主臂变幅角度	°	30~80
FJ configuration 固定副臂工况		
Maximum rated lifting capacity 最大额定起重量	t	12.5
Jib length 副臂长度	m	9~22.5
Longest boom + jib 最长主臂 + 副臂	m	52+22.5
Fixed jib angle 固定副臂角度	°	15/30
Speed Parameters 速度参数		
Rope speed of main/aux. hoist 主/副卷扬绳速	m/min	0~120
Boom hoist winch rope speed 变幅卷扬绳速	m/min	0~85
Slewing speed 回转速度	rpm	0~2.5
Travelling speed 行走速度	km/h	0~2.0
Wire Rope 钢丝绳		
Main & aux. winch wire rope: diameter × length 主副卷扬钢丝绳：直径×长度	ϕ mm × m	30 × 200
Rated line pull of main & aux. winch 主副卷扬额定拉力	t	15
The 3rd winch wire rope: diameter × length 第三卷扬钢丝绳：直径×长度	ϕ mm × m	26 × 300 (optional)
Rated line pull of the 3rd winch 第三卷扬额定拉力	t	12 (optional)
Main luffing wire rope: diameter × length 主变幅钢丝绳：直径×长度	ϕ mm × m	22 × 180
Engine 发动机		
Engine model 发动机型号	-	Cummins QSL9 (Stage V)
Rated output 额定输出	kW/rpm	242/1800
Transport Parameters 运输参数		
Maximum transport weight of basic machine (including base) 主机最大运输重量(含底座)	t	55.73 / 57.98 (850/950 optional)
Maximum transport dimension of basic machine (L × W × H) 主机最大运输尺寸(长×宽×高)	mm	13120 × 3490 × 3550 (850) 13120 × 3590 × 3550 (950 optional)
Other Parameters 其他参数		
Average ground pressure (basic boom) 平均接地比压(基本臂)	Mpa	0.101/0.093 (850/950 optional)
Gradeability 爬坡能力	%	30

04 Transport Dimension
部件运输尺寸

NO. 序号	Name 名称	Shape 形状	Length 长(m)	Width 宽(m)	Height 高(m)	Weight 单件重量(t)	Qty 数量
1	Basic machine 1 (with boom base and crawlers) 主机1(带主臂下节臂和履带)		13.12	3.49(850) 3.59(950)	3.55	58.33(850)/60.58(950) (with 3rd hoist 含第三卷扬) 55.73(850)/57.98(950) (no 3rd hoist 无第三卷扬)	1
2	Basic machine 2 (with crawlers without boom base) 主机2(带履带，不带主臂下节臂)		8.75	3.49(850) 3.59(950)	3.55	55.85(850)/58.10(950) (with 3rd hoist 含第三卷扬) 53.25(850)/55.50(950) (no 3rd hoist 无第三卷扬)	1
3	Basic machine 3 (with boom base without crawlers) 主机3(带主臂下节臂，不带履带)		13.12	3.40	3.20	37.18 (with 3rd hoist 含第三卷扬) 34.58 (no 3rd hoist 无第三卷扬)	1
4	Basic machine 4 (without boom base and crawlers) 主机4(不带主臂下节臂和履带)		8.05	3.40	3.33	35.10 (with 3rd hoist 含第三卷扬) 32.50 (no 3rd hoist 无第三卷扬)	1
5	Crawler frame 履带架		6.76	1.12(850) 1.17(950)	1.19	10.56(850) 11.68(950)	2
6	6.5m boom base 6.5m主臂下节臂		6.69	1.76	1.91	2.08	1
7	6.5m boom top 6.5m主臂上节臂		7.34	1.66	2.21	2.50	1
8	3m boom insert 3m主臂中间臂		3.15	1.67	1.72	0.65	2
9	6m boom insert 6m主臂中间臂		6.15	1.67	1.72	1.06	1
10	9m boom insert 9m主臂中间臂		9.15	1.67	1.72	1.40	4
11	Boom runner 加长臂		1.78	0.89	0.83	0.44	1
12	Fixed jib base and strut 固定副臂下节臂及撑杆		4.69	1.00	1.25	0.62	1
13	Fixed jib top 固定副臂上节臂		4.90	0.87	0.86	0.32	1
14	4.5m fixed jib insert 4.5m固定副臂中间臂		4.57	0.88	0.79	0.20	3
15	Carbody counterweight 中央配重		1.95	0.85	0.81	5.00(for 950) 6.00(for 850)	2

04 Transport Dimension
部件运输尺寸

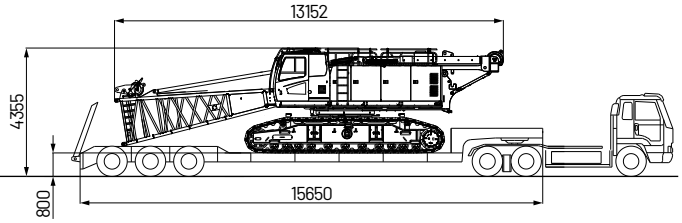
NO. 序号	Name 名称	Shape 形状	Length 长(m)	Width 宽(m)	Height 高(m)	Weight 单件重量(t)	Qty 数量
16	Rear counterweight 1 后配重1		4.40	1.42	1.10	11.00	1
17	Rear counterweight 2 后配重2		4.40	1.42	0.58	10.00	2
18	Rear counterweight 3 后配重3		1.49	1.35	0.67	4.25	1
19	Rear counterweight 4 后配重4		1.49	1.35	0.67	4.25	1
20	100t hook 100t吊钩		2.13	0.98	0.67	1.56	1
21	45t hook 45t吊钩		2.05	0.98	0.56	1.32	1
22	15t ball hook 15t球钩		1.19	0.40	0.40	0.60	1

Note:
① Parts shipping dimensions are schematic and not drawn to scale. Dimensions indicated are design values and do not include packaging.
② Weights are design values and may vary slightly due to manufacturing errors.
③ 2850/950 refers to the width of track pads.

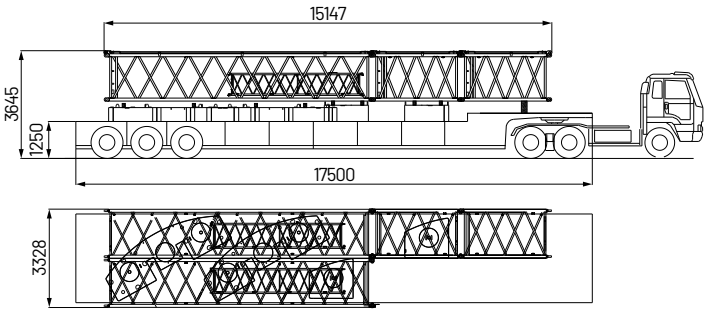
注释:
① 零部件运输尺寸为示意图，未按比例绘制，所标尺寸为设计值，不包括包装。
② 重量为设计值，由于制造误差，可能稍有不同。
③ 850/950表示履带板宽度。

05 Transport Plan
运输方案

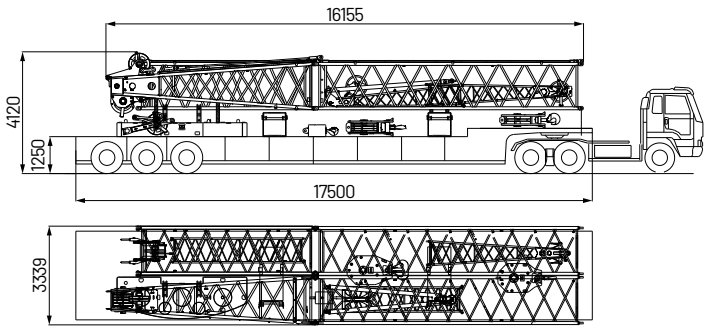
Trailer 1 运输车 1	
Parts 包含部件	▪ Basic machine (with track frames, boom base and wire ropes included) 主机(含履带架和下节臂、钢丝绳)
Total weight 运输重量	▪ 58.33t (850, with 3rd hoist 含第三卷扬) ▪ 60.58t (950, with 3rd hoist 含第三卷扬) ▪ 55.73t (850, no 3rd hoist 无第三卷扬) ▪ 57.98t (950, no 3rd hoist 无第三卷扬)



Trailer 1 运输车 2	
Parts 包含部件	▪ Counterweight blocks 2 配重块2 × 2: 20t ▪ Counterweight block 3 配重块3 × 1: 4.25t ▪ Counterweight block 4 配重块4 × 1: 4.25t ▪ 9m boom insert 9m主臂中间臂 × 2: 2.8t ▪ 3m boom insert 3m主臂中间臂 × 2: 1.3t ▪ 4.5m fixed jib insert 4.5m固定副臂中间臂 × 2: 0.4t
Total weight 运输重量	▪ 33.0t



Trailer 1 运输车 3	
Parts 包含部件	▪ Counterweight block 1 配重块1 × 1: 11.0t ▪ 9m boom insert 9m主臂中间臂 × 2: 2.8t ▪ 6m boom insert 6m主臂中间臂 × 1: 1.06t ▪ 6.5m boom top 6.5m主臂上节臂 × 1: 2.50t ▪ 4.5m fixed jib insert 4.5m固定副臂中间臂 × 1: 0.2t ▪ Fixed jib base 固定副臂下节臂 × 1: 0.62t ▪ Fixed jib top 固定副臂上节臂 × 1: 0.32t ▪ Boom runner 加长臂 × 1: 0.44t ▪ Carbody counterweight 下车配重 × 2: 10t ▪ 45t hook 45t吊钩 × 1: 1.32t ▪ 100t hook 100t吊钩 × 1: 1.56t ▪ Packing box 包装箱 × 1: 1t
Total weight 运输重量	▪ 33.42t



06 Main Characteristics
主要特性

1 Product Specification 产品规格

Engine 发动机

- Model: Cummins QSL9-C325 Diesel engine;
- Type: 4-stroke, water-cooled, vertical in-line 6 cylinders, direct injection, turbo-charger, intercooler, complied with European Off-highway Stage V Emission Standard and US EPA Tier F4(f) Emission Standard.
- Displacement: 8.9L.
- Rated power: 242kW/1800rpm.
- Operation power: 242kW/1800rpm.
- Max. Torque: 1527N·m/1400rpm.
- Starter: 24V-7.5kW.
- Radiator: fin type aluminum plate core.
- Air cleaner: Dry type system with main filter element, safety element and resistance indicator.
- Throttle: Grip type hand throttle, electrically-controlled.
- Fuel filter: Replaceable paper element.
- Batteries: Two 12V × 180Ah capacity batteries, connected in series.
- Fuel tank capacity: 550L.
- 型号：Cummins QSL9-C325 柴油发动机；
- 类型：四冲程、水冷、直列六缸、直喷、涡轮增压、中冷；符合欧洲非道路 Stage V 排放标准及美国 EPA Tier 4 Final 排放标准；
- 排量：8.9 L；
- 额定功率：242 kW / 1800 rpm；
- 工作功率：242 kW / 1800 rpm；
- 最大扭矩：1527 N·m / 1400 rpm；
- 启动装置：24V-7.5kW；
- 散热器：铝板翅式散热器芯体；
- 空气滤清器：干式空滤系统，配备主滤芯、安全滤芯及阻力指示器；
- 手油门：电控档位式手油门；
- 燃油滤清器：可更换纸质滤芯；
- 蓄电池：两只 12 V × 180 Ah 蓄电池，串联连接；
- 燃油箱容量：550L。

Hydraulic system 液压系统

- Main pumps: Dual high-displacement heavy-duty open-circuit variable piston pumps are adopted to provide supply for main actuators of main machine.
- Gear pump: Two gear pumps used for cooling and control circuits.
- Control: Main pump adopts electrically-controlled positive flflow control; winch motor adopts limitless adjustable piston motor of variable displacement. The operating components are one dual-hydraulic handles for travel , one tri-hydraulic handles and one cross hydraulic handle, to control various actuators proportionally.
- Way of cooling: Heat exchanger, plate-fifin type core and multi-stage cooling.
- Filter: Large flflow, high precision fifilter.
- Max. pressure of system: 32MPa.
- Main, aux load hoist, third hoist and travel system: 32MPa.
- Swing system: 30MPa.
- Control system: 4.5MPa.
- Hydraulic tank capacity: 460L.
- 主泵：双联大排量重载开式变量柱塞泵，为整机主要执行元件提供油源；
- 齿轮泵：两个齿轮泵，用于散热及控制油路；
- 控制：主泵采用电比例正流量控制，卷扬马达采用无级可调变量柱塞马达。操作元件包括一组双联行走液控手柄、一组三联液控手柄及一组十字液控手柄，可对各执行元件进行比例控制；
- 冷却方式：空冷热交换器，铝板翅式内芯，多级冷却；
- 过滤器：大流量、高精度过滤器；
- 系统最大压力：32 MPa；
- 主、副、第三卷扬及行走系统压力：32 MPa；
- 回转系统压力：30 MPa；
- 控制系统压力：4.5 MPa；
- 液压油箱容量：460 L。

Electrical control system 电气控制系统

- Self-developed SYIC-III integrated control system is adopted with higher integration, precise operation and reliable quality.
- Control system consists of power system, engine system, main control system, LMI system, auxiliary system and safety monitoring system. CAN 2.0B is used for data communication between controller, monitor and the engine.
- Power control: Multi-process display, power control is maintained at about 5ms running cycle.
- Intelligent safety: Center-of-gravity display, wind speed alarm, and ground pressure warning, all-round safety protection, reduce the probability of operation error.
- Intelligent operation and maintenance: Predictive maintenance, OTA upgrade, remote machine lock.
- 采用三一自主研发的 SYIC-III 集成控制系统，集成度更高，操作精确，品质可靠；
- 控制系统由电源系统、发动机系统、主控制系统、力矩限制器系统、辅助系统及安全监控系统组成；控制器、显示器与发动机之间通过 CAN 2.0B 总线通讯；
- 功率控制：多进程显示，控制周期约 5 ms，实时高效；
- 智能安全：具备重心显示、风速报警、接地比压报警等全方位安全防护功能，降低操作误差概率；
- 智能运维：具备预测性维护、OTA 远程升级及远程锁机功能。

Main and aux. load hoist mechanism 主、副提升机构

- Main and aux. hoist winches are driven separately by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of hook. Excellent inching function is equipped on the machine.
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.
- Free fall for main/aux load hoist.
- 主、副卷扬由卷扬马达分别经减速机驱动，操作卷扬手柄可实现卷筒双向旋转，完成吊钩的升降动作；设备具备优异的微动性能；
- 卷筒采用折线槽设计，确保钢丝绳多层有序缠绕；
- 主、副卷扬具备自由落钩功能。

Main load hoist mechanism 主提升机构	Drum diameter 卷筒直径	Φ652mm
	Rope speed 单绳速度	0~120m/min
	Diameter of wire rope 钢丝绳直径	Φ30mm
	Main load hoist wire rope length 主提升钢丝绳长度	200m
	Rated single line pull 额定单绳拉力	15t
Auxiliary load hoist mechanism 副提升机构	Drum diameter 卷筒直径	Φ652mm
	Rope speed 单绳速度	0~120m/min
	Diameter of wire rope 钢丝绳直径	Φ30mm
	Auxiliary load hoist wire rope length 副提升钢丝绳长度	200m
	Rated single line pull 额定单绳拉力	15t
The third tive hoist (optional) 第三卷扬(选配)	Drum diameter 卷筒直径	Φ547mm
	Rope speed 单绳速度	0~110m/min
	Diameter of wire rope 钢丝绳直径	Φ26mm
	Wire rope length 钢丝绳长度	300m
	Rated single line pull 额定单绳拉力	12t

Note: Optional: The third hoist without free load ability.
备注：选配：第三卷扬（不具备自由落钩功能）。

06 Main Characteristics
主要特性

1 Product Specification 产品规格

Boom hoist mechanism 主臂提升机构

- Boom hoist winches are driven separately by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of boom.
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.
- 变幅卷扬由马达经减速机独立驱动，操作变幅手柄可控制卷筒升降，实现臂架起落动作；
- 卷筒采用折线槽设计，确保钢丝绳多层有序缠绕。

Boom hoist mechanism 变幅机构	Drum diameter 卷筒直径	Φ440mm
	Rope speed 单绳速度	0~85m/min
	Diameter of wire rope 钢丝绳直径	Φ22mm
	Wire rope length 钢丝绳长度	180m

Slewing mechanism 回转机构

- Slewing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force.
- Slewing system, equipped with integrated slewing buffer valve. It is featured in steady starting and control, and excellent inching function.
- Slewing drive: Internal engaged slewing drive with 360° slewing range, and the max. slewing speed is 2.5r/min.
- Slewing ring: Single row ball bearing.
- Swing lock: Cylinder lock can ensure the upperworks locked securely on two directions after work or during transport.
- 回转制动采用湿式、弹簧加载常闭制动器，依靠弹簧力制动；
- 回转系统配备集成回转缓冲阀，启动与控制平稳，微动性优异；
- 回转驱动采用内啮合式结构，可实现360°全回转，最大回转速度2.5 r/min；
- 回转支承为单排球式结构；
- 回转锁定装置：通过液压锁缸，可在工作结束或运输状态下将上车前后方向可靠锁定。

Cab and control 驾驶室与控制

- Industrial modeling design of C6 intelligent operator's cab, intelligent, control comfort, safety and interior comfort greatly improved, equipped with open front window, left sliding door, touch screen control system.
- There are low and high-beam lights, back-view mirror, panoramic skylight, heater and A/C, radio and other functions. The layout of seat, handles, control buttons are designed with ergonomic principles to make operation more comfortable.
- Display: Integrated 10.1-inch touch screen with visualization fault self-diagnosis, car phone, bluetooth audio, video storage and export, high-definition camera display screen.
- Multiple cameras can present on the monitor at the same time to realize backing video, real-time monitoring of wire rope on each winch, conditions behind the counterweight and surrounding the machine.
- Armrest box and panel: On the left and right armrest box are control handles, electrical switches, emergent stop, reading light, microphone, USB port, cigarette lighter and ignition switch.
- Seat: Longer and wider dynamic suspension seat with six position adjustable headrest and weight adaptation adjustment function.
- A/C: High-powered heating and cooling air conditioning system with, multi-vent layout, CFD flow field simulation design and touch screen control, making the operation more comfortable.
- Safety: Metal profile sheet metal welded frame, more stable structure. High-density top grille guardrail, can effectively block falling objects from height.
- 采用C6智能驾驶室工业化造型设计，智能化程度高，操作舒适性、安全性及内饰品质全面提升；驾驶室配备前开式窗、左侧滑门、触屏控制系统；
- 配置远近光灯、后视镜、全景天窗、暖风及空调、收音机等功能。座椅、操纵手柄及控制按键布局符合人体工学设计，操作更舒适；
- 显示系统：集成10.1英寸触控显示屏，具备可视化故障自诊断、车载电话、蓝牙音频、视频存储与导出、高分辨率摄像显示等功能；
- 多路摄像画面可同步显示，实现倒车影像、卷扬钢丝绳实时监控、配重后方及整机周视监控；
- 扶手箱与面板：左右扶手箱集成操作手柄、电气开关、急停开关、阅读灯、话筒、USB接口、点烟器及点火开关；
- 座椅：宽大动态减震座椅，配备六向可调头枕及自适应体重调节功能；
- 空调系统：大功率冷暖空调系统，多出风口布局，采用CFD流场仿真设计与触屏控制，操作更舒适；
- 安全性：驾驶室采用金属型材焊接框架结构，强度高、稳定性好；顶部配备高密度防护格栅，可有效防止高处坠物。

Counterweight 配重

- The stacking mode of counterweight tray and blocks is used for easy assembly, disassembly and transportation.
- Rear counterweight: Total weight 39.5t.
- The standard counterweight tray 11t × 1, Middle counterweight 10t × 2, Middle, Upper counterweight 4.25t × 2.
- Carbody counterweight: total weight of 5t × 2.
- 配重托盘与配重块采用叠加式结构，便于拆装与运输；
- 后配重总重39.5 t；
- 标准配重构成：配重托盘11 t × 1，中间配重10 t × 2，上部配重4.25 t × 2；
- 车体配重：5 t × 2，总重10 t。

06 Main Characteristics
主要特性

1 Product Specification 产品规格

Upperstructure 上车结构

- High-strength steel weld framework, with no torsion or deformation. The parts are laid out in the way that is easier for maintenance and service.
- 采用高强度钢焊接框架结构，无扭曲变形，零部件布局合理，维护保养方便。

Lowerstructure 下车结构

- Independent travel driving units are adopted for each side of the crawler, to realize straight walking and turning driven by travel motor through gearbox and drive wheel.
- 履带两侧独立行走驱动单元，行走马达经减速器和驱动轮实现直行与转向。

Track tensioning 履带张紧

- The jack is used to push the guide wheel and insert the shim to adjust crawler tension.
- 通过油缸推移导向轮并插入垫块调节履带张紧度。

Track extension and retraction 履带伸缩

- The crawlers can extend and retract via cylinders. During Work Mode, the crawlers must be extended, and retracted during transport with crawlers on.
- 履带通过油缸实现伸缩；作业状态下履带需完全伸展，运输状态下履带收回。

Track pad 履带板

- High strength alloy cast steel track pad ensure long service life.
- They are 850/950mm wide with a quantity of 55 pcs × 2.
- 高强度合金铸钢履带板，耐磨寿命长；
- 履带板宽度有850/950mm，每侧数量55片。

Outrigger of lower structure 下车支腿

- Standard configuration, it is convenient to realize assembly/disassembly of track frame during the transport.
- 标配下车支腿，便于运输过程中履带架的拆装。

Boom 主臂

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic boom: 6.5m boom base + 6.5m boom top.
- Boom insert: 3m × 2, 6m × 1, 9m × 4.
- Boom length: 13m~61m.
- 桁架结构，弦管采用高强度结构钢管，各臂节采用销轴连接；
- 基本臂：6.5 m 臂底 + 6.5 m 臂头；
- 中间臂：3 m × 2、6 m × 1、9 m × 4；
- 主臂长度：13 m ~ 61 m。

Fixed jib 固定副臂

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic jib: 4.5m jib base + 4.5m jib top.
- Jib insert: 4.5m × 3.
- Fixed jib: 9m~22.5m.
- Longest boom+jib: 52m+22.5m.
- 桁架结构，弦管采用高强度结构钢管，各臂节采用销轴连接；
- 基本副臂：4.5 m 副臂底 + 4.5 m 副臂头；
- 中间副臂：4.5 m × 3；
- 副臂长度：9 m ~ 22.5 m；
- 最长臂组合：52 m + 22.5 m。

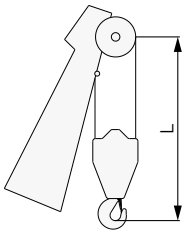
Runner 加长臂

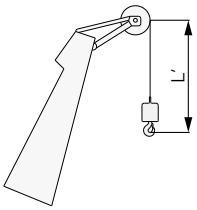
- The runner is a welded structure connected to the boom tip by pins, used for auxiliary hook.
- Length: 1.0m.
- 加长臂为焊接结构，通过销轴与臂头连接，用于挂装副钩；
- 长度：1.0 m。

Hook block 吊钩组

- 100t hook, 3 sheaves.
- 45t hook, 1 sheaves.
- 15t ball hook.
- 100 t 吊钩，3 个滑轮；
- 45 t 吊钩，1 个滑轮；
- 15 t 球钩。

Hook height limit 吊钩高度限位图





Hook 吊钩	L
100t	5.3m
45t	5.2m

Hook 吊钩	L'
15t	3.1m

06 Main Characteristics 主要特性

2 Safety Devices 安全装置

Assembly/Working mode selector switch 安装/ 工作模式切换开关

- In Assembly Mode, certain safety devices are disabled to facilitate crane assembly.
- In work mode, all safety devices activate to protect the operation.
- 安装模式下部分安全装置关闭，便于整机装配；
- 工作模式下所有安全装置启用，确保作业安全。

Emergency stop 紧急停止

- In emergent situation, this button is pressed down to cut off the power supply of the whole machine and all actions stop.
- 在紧急情况下，按下此按钮可切断整机电源，所有动作立即停止。

Load moment indicator 力矩限制器

- It is an independent computerized safety control system. LMI can automatically detect the load weight, work radius and boom angle, and present on the display the rated load, actual load, work radius and boom angle. In normal operation, the LMI can make a judgment and cut off automatically if the crane moves towards dangerous direction. It can also perform as a black box to record the lifting information.
- It is composed of monitor, angle sensor, force sensor and other parts.
- 为独立的计算机安全控制系统，可自动检测吊重、作业幅度及主臂角度，并在显示屏上实时显示额定载荷、实际载荷、作业幅度及臂角。正常作业时，当起重机动作趋向危险方向时，系统自动判断并切断动作。LMI 同时具备“黑匣子”功能，可记录起重作业信息;
- 系统由显示器、角度传感器、力传感器等组成。

Over-hoist protection of the main/auxiliary load hoist and the third hoist 主、副及第三卷扬防超起装置

- Over-hoist protection device comprises limit switch and weight on boom top, which prevents the hook lifting up too much. When the hook lifts up to the limit height, the limit switch activates, buzzer on the left control panel sends alarm, failure indicator light starts to flash and the hook hoisting action is cut off automatically.
- 由臂头限位开关及重锤组成，用于防止吊钩过度上升。当吊钩上升至限位位置时，限位开关动作，左侧操纵台蜂鸣器报警，故障指示灯闪烁，吊钩上升动作自动切断。

Over-release protection device of the main/auxiliary load hoist and the third hoist 主、副及第三卷扬防过放装置

- It is comprised of activator in the drum and proximity switch to prevent over release of wire rope. When the rope is paid out close to the last three wraps, the proximity switch acts, and the system sends alarm through buzzer and show the alarm on the monitor, automatically cutting off the winch action.
- 由卷筒内触发器及接近开关组成，用于防止钢丝绳过度放出。当钢丝绳放出接近最后三圈时，接近开关动作，系统通过蜂鸣器报警并在显示屏上提示，同时自动切断卷扬动作。

Function lock 功能锁定

- If the function lock lever is not in work position, all the other handles won't work, which prevents any mis-operation caused by accidental collision.
- 当功能锁手柄未处于工作位置时，其他操纵手柄均被锁定，防止因意外碰撞造成误操作。

Boom hoist drum lock 变幅卷筒锁

- Hydraulically controlled lock is installed for boom hoist drum, which needs to unlock by switch before operation, in order to prevent mis-operation of handles and ensure safety during non-work time.
- 变幅卷筒配备液控锁，在操作前需通过开关解锁，以防止非作业状态下误操作，确保安全。

Slewing lock 回转锁定装置

- Swing lock can lock the machine.
- 回转锁定装置可在作业结束或运输状态下锁定上车结构。

Boom limit device 起重臂限位装置

- When the boom elevation angle reaches the upper limit, the buzzer sounds and boom action is cut off. This protection is two-stage control ensured by both LMI system and travel switch.
- 当主臂仰角达到上限时，蜂鸣器报警，臂架动作被切断。该保护由力矩限制器系统与行程开关双重控制实现。

Back-stop device 起重臂防后倾装置

- Its major components are nesting tubes and spring, in order to buffer the boom backlash and prevent further tipping back.
- 由嵌套套管及弹簧组成，用于缓冲主臂回摆并防止臂架继续后倾。

Boom angle indicator 起重臂角度指示牌

- Pendulum angle indicator is fixed on the side of boom base close to the cab, so as to provide convenience to the operator.
- 摆锤式角度指示器安装在靠近驾驶室的主臂根部，便于操作员观测。

Hook latch 吊钩保险扣

- The lifting hook is installed with a baffle plate to prevent wire rope from falling off.
- 吊钩配备防脱挡板，用于防止钢丝绳脱出。

06 Main Characteristics
主要特性

2 Safety Devices 安全装置

Tri-color load indicator 三色负载警示灯

- The load indication light has three colors, green, yellow and red, and the real time load status is presented on the display. When the actual load is smaller than 87% of rated load, the green light is on.
- When the actual load is larger than 87% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens.
- When the actual load reaches 100% of rated load, the red light is on, the alarm light flashes and sends out continuous sirens.
- When the actual load reaches 102% of rated load, the system will automatically cut off the crane operation in dangerous trend.
- 载荷指示灯分为绿色、黄色、红色三种颜色，实时显示吊载状态。当实际载荷小于额定载荷的 87% 时，绿灯亮；
- 当实际载荷在87%~100% 之间时，黄灯亮，警示灯闪烁并间歇报警；
- 当实际载荷达到额定载荷 100% 时，红灯亮，警示灯闪烁并持续报警；
- 当实际载荷超过额定载荷 102% 时，系统自动切断危险方向的起重动作。

Alarm light 警示灯

- When the machine is powered on, the alarm light will work when time comes, so as to warn people around.
- 当整机通电后，警示灯按设定时间闪烁，用以提醒周围人员注意安全。

Swing indicator light 回转指示灯

- The swing indicator light flashes during traveling or swing.
- 行驶或回转过程中，回转指示灯闪烁提示。

Illuminating light 照明系统

- The machine is equipped with the low beam light and high beam light at the front of the cab, illumination light at cab, and other night lights, boom lights to improve the visibility during construction.
- 整机配备驾驶室前远近光灯、驾驶室内照明灯及夜间工作灯、臂架灯等，以提升夜间施工可视性。

360 Surround View Camera 360° 全景影像系统

- The crawler crane is equipped with four cameras positioned on the front, rear, left, and right sides to comprehensively monitor its surrounding environment.
- 整机配备四个摄像头，分别位于前、后、左、右四侧，可实现全方位环境监控。

Pharos 航标灯

- Pharos is mounted on the top of boom/jib to indicate the height.
- 安装于主臂/副臂顶部，用于指示臂端高度位置。

Anemometer 风速仪

- It is mounted on the top of boom/jib, and displayed on the monitor in the cab.
- 安装在主臂或副臂顶部，实时测量风速并在驾驶室显示屏上显示。

Electronic level indicator 电子水平仪

- It displays the tipping angle of crane on the monitor in real time, protecting the machine from dangerous situation.
- 实时显示整机倾斜角度，并在显示屏上提示，防止起重机进入危险状态。

Seat interlock 座椅互锁

- Put down the function lock lever on the left side of cab seat or if the operator leaves the seat, all control levers will be de-activated to prevent any mis-operation due to accidental collision.
- 当驾驶室座椅左侧功能锁杆未放下或操作员离开座椅时，所有操纵手柄均被锁定，防止因意外碰撞引起误操作。

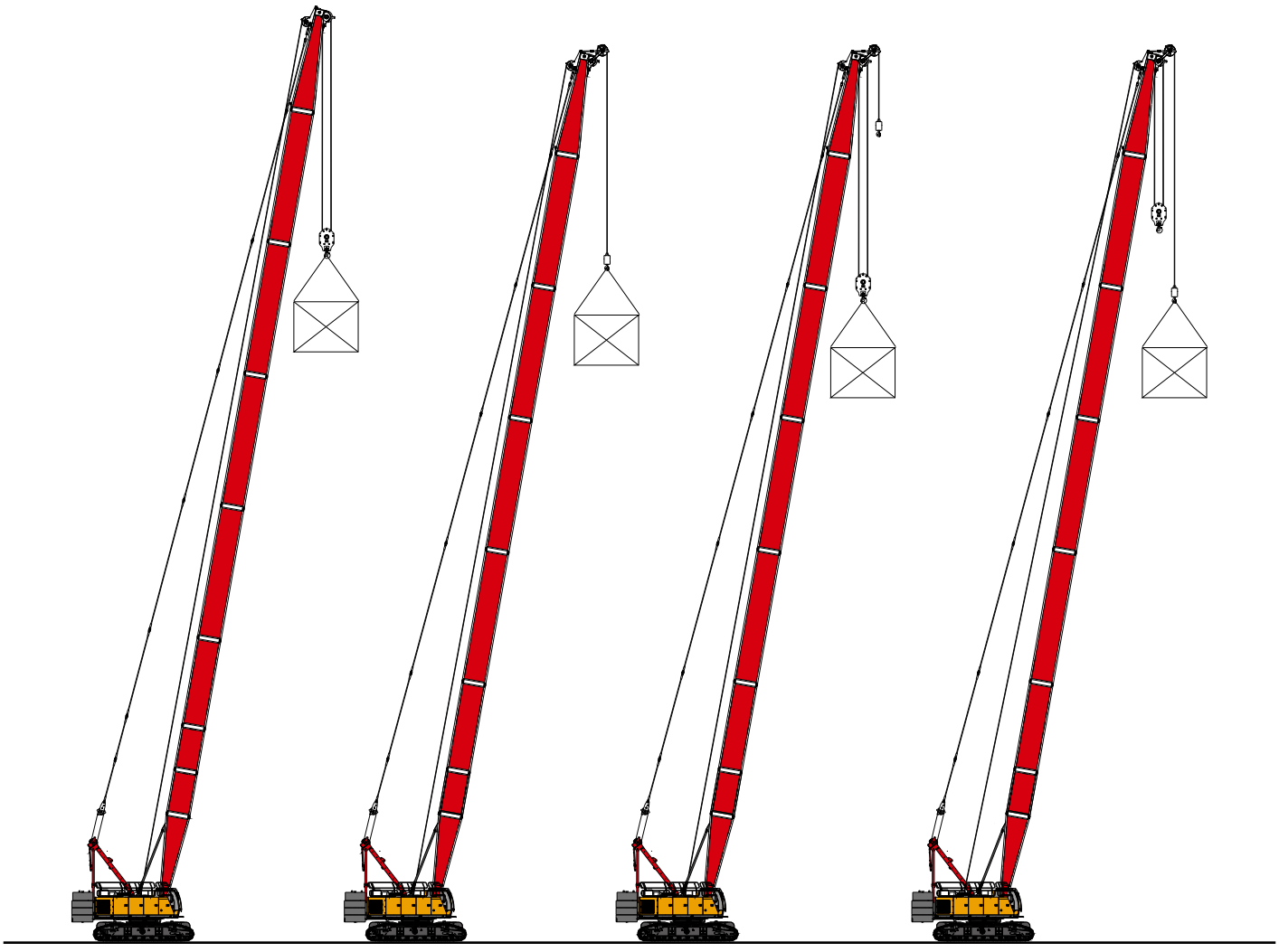
Engine status monitoring 发动机状态监控

- The engine status will be presented, such as engine coolant temperature, fuel volume, total work hours, engine oil pressure, engine speed, battery charging and voltage.
- 实时显示发动机冷却液温度、燃油余量、累计工作小时、机油压力、转速、电池充电状态及电压等参数。

Monitoring system 远程监控系统

- Remote monitoring system is a standardized offering to provide functions like GPS locating, GPRS data transfer, machine status inquiry and statistics, operating data monitoring and analysis, remote diagnosis of failures.
- 标配远程监控系统，具备 GPS 定位、GPRS 数据传输、设备状态查询与统计、作业数据监测与分析、远程故障诊断等功能。

07 Combination
工况组合



H Configuration　HC Configuration　HCm Configuration　HCa Configuration

Configuration 工况	Boom Combination 臂架组合	Boom length 臂长
H	Boom 主臂	13m~61m
HC	Boom + Runner (single hook) 主臂+加长臂(单钩)	13m~58m
HCm	Boom + Runner (double hooks, load on main hook) 主臂+加长臂(双钩，主钩带载)	13m~58m
HCa	Boom + Runner (double hooks, load on aux. hook) 主臂+ 加长臂(双钩，副钩带载)	13m~58m

Note: The above diagrams are for reference only regarding load-bearing configurations.
注: 以上示意图仅做工况吊载情况参考。

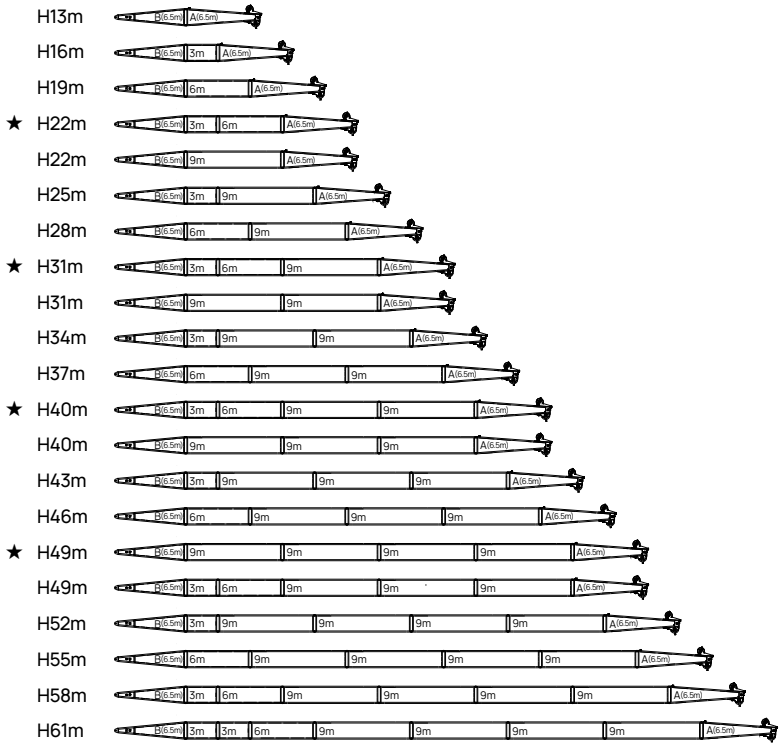
07 Combination
工况组合

FJ Configuration | FJ Configuration (single hook) | FJm Configuration | FJa Configuration

Configuration 工况	Boom Combination 臂架组合	Boom length 臂长
FJ	Boom + Fixed Jib (single hook) 主臂+ 固定副臂(单钩)	(31m~52m)+(9m~22.5m)
FJm	Boom + Fixed Jib (double hooks, load on main hook) 主臂+固定副臂(双钩，主钩带载)	(31m~52m)+(9m~22.5m)
FJa	Boom + Fixed Jib (double hooks, load on aux. hook) 主臂+ 固定副臂(双钩，副钩带载)	(31m~52m)+(9m~22.5m)

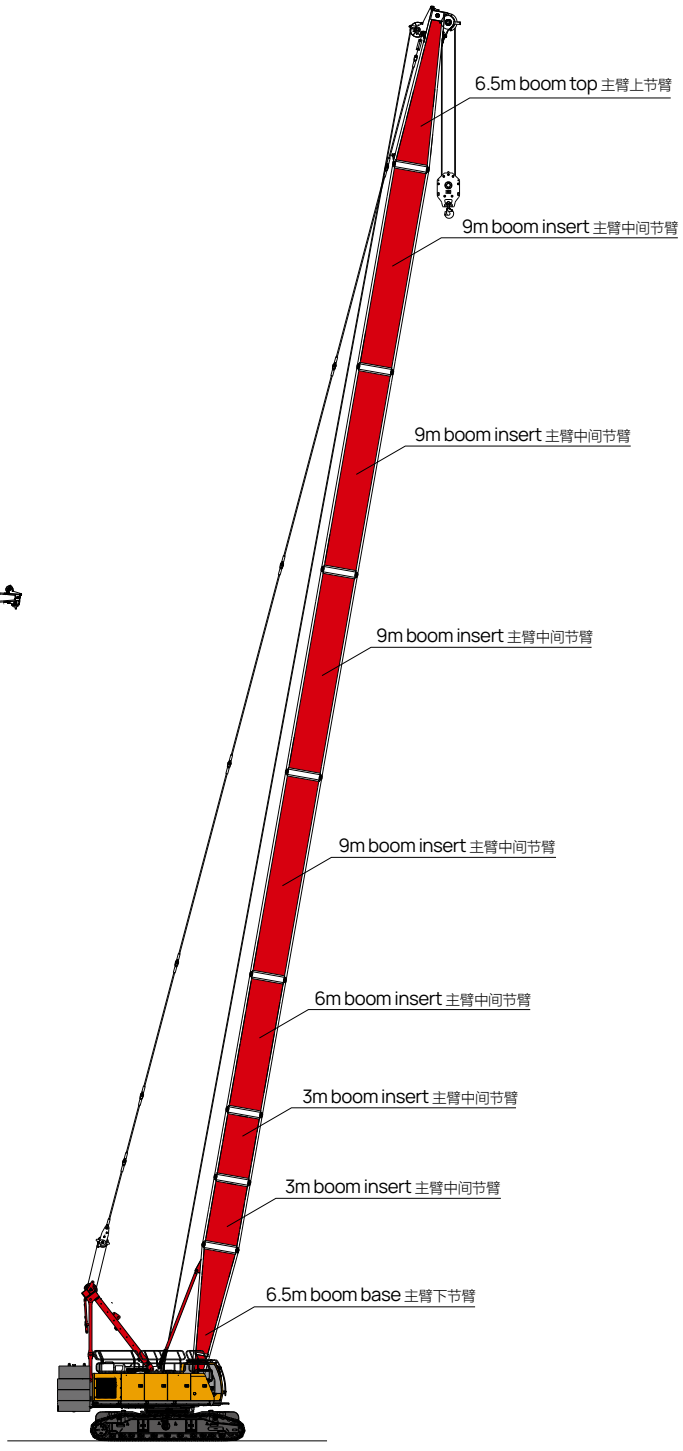
Note: The above diagrams are for reference only regarding load-bearing configurations.
注: 以上示意图仅做工况吊载情况参考。

07 H Configuration
H工况臂架组合



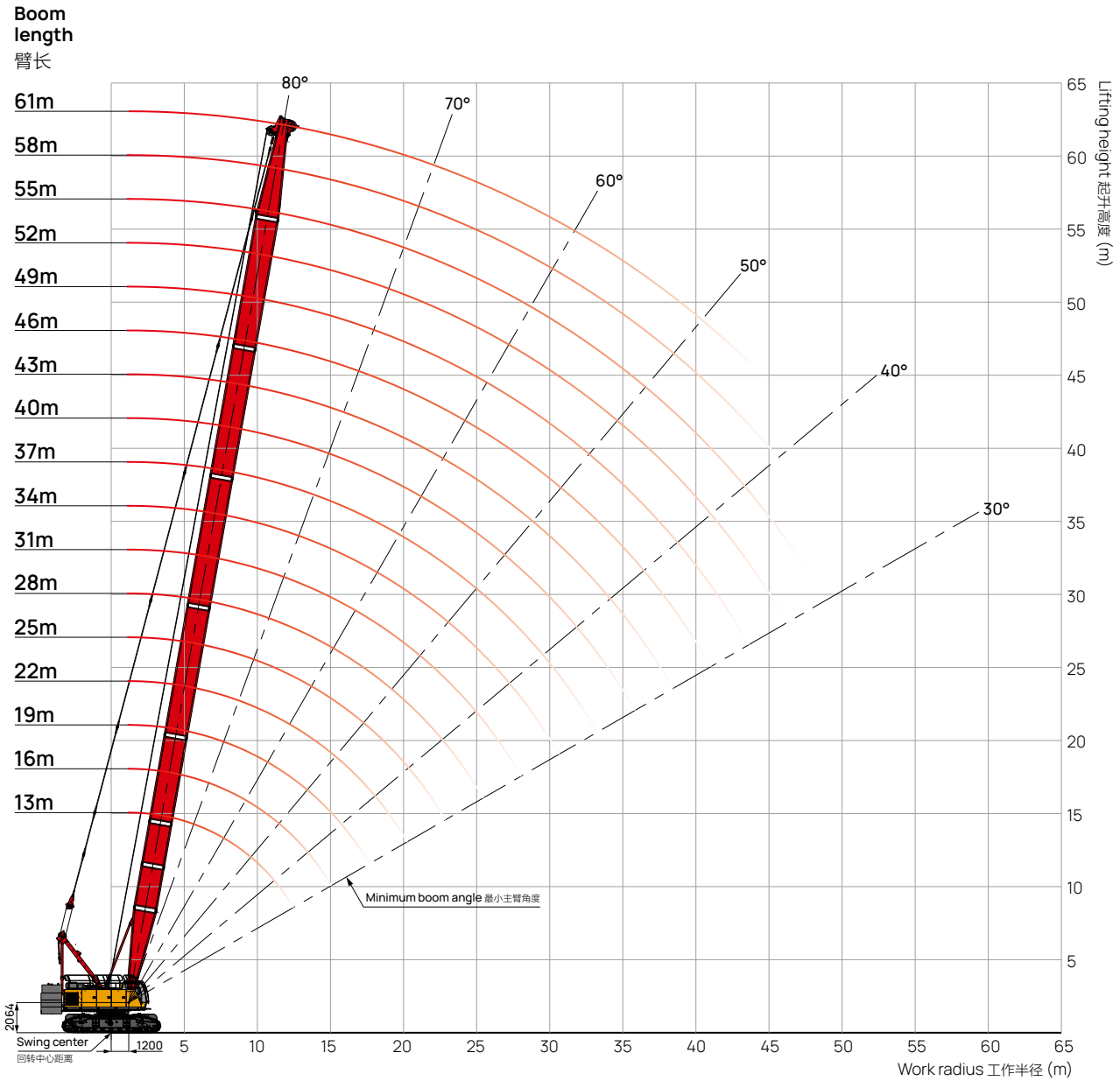
Note: Items marked with an asterisk are optional configurations.
注: 带星号的为优选配置。

B(6.5m)	■ 6.5m boom base 主臂下节臂
A(6.5m)	■ 6.5m boom top 主臂上节臂
3m	■ 3m boom insert 主臂中间臂
6m	■ 6m boom insert 主臂中间臂
9m	■ 9m boom insert 主臂中间臂



H Configuration
(13m~61m)

07 Working Radius-H
工况作业范围图- H工况



07 Load Chart-H
工况载荷表- H工况

Unit: t

m	Load on main hook, Boom length 13~61m, Without runner (Rear counterweight 39.5t + Carbody counterweight 10t) 主钩带载，主臂13~61m，不带加长臂（后配重39.5t+中央配重10t)																	m
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	
4	110																	4
4.5	100	100																4.5
5	96.0	95.8	95.6															5
5.5	87.7	87.5	87.3	84.1														5.5
6	80.6	80.4	79.2	75.8														6
7	67.1	67.2	65.8	63.3	60.9	58.7												7
8	54.7	54.7	54.6	54.2	52.4	50.6	49.1	47.5										8
9	46.0	46.0	45.9	45.9	45.8	44.4	43.2	41.9	40.7	39.5								9
10	39.6	39.5	39.5	39.5	39.3	39.2	38.4	37.3	36.3	35.3	34.4	33.4						10
12	30.8	30.7	30.6	30.6	30.4	30.3	30.3	30.1	29.8	29.0	28.2	27.5	26.9	26.1	25.4	24.7		12
14		24.9	24.8	24.8	24.6	24.5	24.4	24.3	24.1	24.0	23.8	23.2	22.6	22	21.4	20.9	20.2	14
16			20.7	20.6	20.5	20.3	20.3	20.1	20.0	19.9	19.7	19.6	19.4	18.8	18.3	17.8	17.3	16
18				17.6	17.4	17.3	17.2	17.0	16.9	16.8	16.6	16.5	16.4	16.1	15.9	15.4	14.9	18
20				15.2	15.0	14.9	14.8	14.7	14.5	14.4	14.2	14.1	14.0	13.7	13.6	13.4	13.0	20
22					13.1	13.0	12.9	12.8	12.6	12.5	12.3	12.2	12.1	11.8	11.7	11.5	11.3	22
24						11.4	11.4	11.2	11.1	10.9	10.8	10.6	10.5	10.3	10.1	9.9	9.7	24
26							10.1	9.9	9.8	9.6	9.5	9.3	9.2	9.0	8.8	8.6	8.4	26
28							9.0	8.8	8.7	8.5	8.4	8.2	8.1	7.9	7.7	7.5	7.3	28
30								7.9	7.8	7.6	7.4	7.3	7.2	6.9	6.8	6.6	6.4	30
32									6.9	6.8	6.6	6.5	6.4	6.1	6.0	5.8	5.6	32
34										6.1	5.9	5.8	5.7	5.4	5.3	5.1	4.8	34
36										5.5	5.3	5.1	5.0	4.8	4.6	4.4	4.2	36
38											4.7	4.6	4.5	4.2	4.1	3.9	3.7	38
40												4.1	4.0	3.7	3.6	3.4	3.2	40
42													3.5	3.3	3.1	2.9	2.7	42
44														2.9	2.7	2.5	2.3	44
46														2.5	2.3	2.2		46
48															2.0			48

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 55 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于55m，起臂时需增加起臂垫板。

07 Load Chart-H
工况载荷表- H工况

Unit: t

m	Load on main hook, Boom length 13~52m, Without runner (Rear counterweight 31t + Carbody counterweight 0t) 主钩带载，主臂13~52m，不带加长臂 (后配重31t+中央配重0t)														m
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	
4	100														4
4.5	100	98.4													4.5
5	90.5	85.3	80.7												5
5.5	79.4	75.3	71.5	68.2											5.5
6	70.1	67.3	64.2	61.4											6
7	54.3	54.4	53.2	51.2	49.2	47.4									7
8	44.2	44.1	44.1	43.7	42.2	40.8	39.5	38.2							8
9	37.1	37.0	37.0	37.0	36.8	35.7	34.6	33.5	32.5	31.5					9
10	31.8	31.8	31.7	31.7	31.6	31.5	30.7	29.8	29.0	28.1	27.3	26.5			10
12	24.6	24.6	24.5	24.4	24.3	24.2	24.1	24.0	23.6	22.9	22.3	21.6	21.1	20.4	12
14		19.8	19.7	19.7	19.5	19.4	19.3	19.2	19.1	18.9	18.6	18.1	17.6	17.0	14
16			16.4	16.3	16.1	16.0	15.9	15.8	15.7	15.5	15.4	15.2	15.0	14.4	16
18				13.8	13.6	13.5	13.4	13.3	13.1	13.0	12.8	12.7	12.6	12.4	18
20				11.9	11.7	11.5	11.5	11.3	11.2	11.0	10.9	10.7	10.6	10.4	20
22					10.1	10.0	9.9	9.8	9.6	9.5	9.3	9.2	9.1	8.8	22
24						8.7	8.6	8.5	8.4	8.2	8.0	7.9	7.8	7.5	24
26							7.6	7.4	7.3	7.1	7.0	6.8	6.7	6.5	26
28							6.7	6.5	6.4	6.2	6.1	5.9	5.8	5.6	28
30								5.8	5.6	5.5	5.3	5.2	5.0	4.8	30
32									5.0	4.8	4.6	4.5	4.4	4.1	32
34										4.2	4.1	3.9	3.8	3.6	34
36										3.7	3.5	3.4	3.3	3.0	36
38											3.1	2.9	2.8	2.6	38
40												2.5	2.4	2.2	40
42													2.0		42

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Load Chart-H
工况载荷表- H工况

Unit: t

m	Load on main hook, Boom length 13~46m, Without runner (Rear counterweight 21t + Carbody counterweight 0t) 主钩带载，主臂13~46m，不带加长臂 (后配重21t+中央配重0t)												m
	13	16	19	22	25	28	31	34	37	40	43	46	
4	100												4
4.5	85.3	79.7											4.5
5	73.3	69.1	65.3										5
5.5	64.2	60.8	57.8	55.1									5.5
6	56.7	54.3	51.8	49.6									6
7	43.8	43.9	42.8	41.2	39.5	38.0							7
8	35.5	35.5	35.5	35.1	33.8	32.6	31.5	30.4					8
9	29.8	29.7	29.7	29.7	29.4	28.4	27.6	26.7	25.8	25.0			9
10	25.5	25.4	25.4	25.4	25.2	25.1	24.4	23.6	22.9	22.2	21.5	20.8	10
12	19.6	19.5	19.5	19.4	19.3	19.1	19.1	19.0	18.5	17.9	17.3	16.8	12
14		15.6	15.6	15.5	15.4	15.2	15.2	15.0	14.9	14.8	14.3	13.9	14
16			12.8	12.8	12.6	12.5	12.4	12.2	12.1	12.0	11.8	11.6	16
18				10.7	10.5	10.4	10.3	10.2	10.0	9.9	9.7	9.6	18
20				9.1	8.9	8.8	8.7	8.6	8.4	8.3	8.1	8.0	20
22					7.7	7.5	7.5	7.3	7.2	7.0	6.8	6.7	22
24						6.5	6.4	6.2	6.1	6.0	5.8	5.7	24
26							5.5	5.4	5.2	5.1	4.9	4.8	26
28							4.8	4.6	4.5	4.4	4.2	4.0	28
30								4.0	3.9	3.7	3.6	3.4	30
32									3.3	3.2	3.0	2.9	32
34										2.7	2.5	2.4	34
36										2.3	2.1	2.0	36

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.
② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.
③ When the boom length is 43 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。
② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。
③ 当臂长大于等于43m，起臂时需增加起臂垫板。

07 Load Chart-H
工况载荷表- H工况

Unit: t

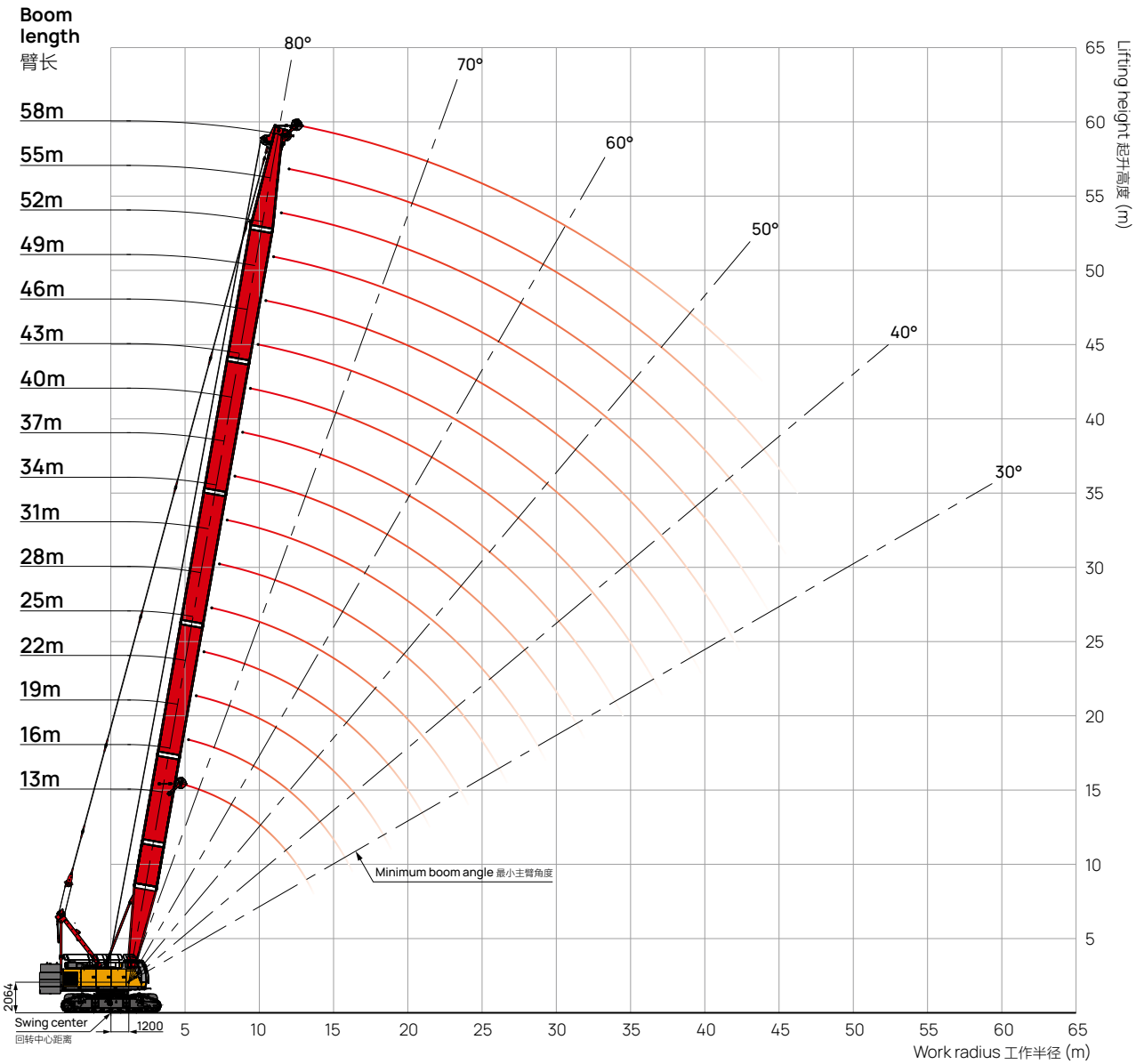
m	Load on main hook, Boom length 13~40m, Without runner (Rear counterweight 11t + Carbody counterweight 0t) 主钩带载，主臂13~40m，不带加长臂 (后配重11t+中央配重0t)										m
	13	16	19	22	25	28	31	34	37	40	
4	77.9										4
4.5	65.2	60.9									4.5
5	55.9	52.7	49.8								5
5.5	48.9	46.3	44	41.9							5.5
6	43.3	41.3	39.4	37.6							6
7	33.3	33.4	32.4	31.1	29.8	28.6					7
8	26.9	26.9	26.9	26.4	25.4	24.4	23.6	22.7			8
9	22.4	22.4	22.4	22.4	22.0	21.2	20.5	19.7	19.1	18.4	9
10	19.1	19.1	19.0	19.0	18.9	18.6	18.0	17.4	16.8	16.2	10
12	14.6	14.5	14.4	14.4	14.2	14.1	14.1	13.8	13.3	12.9	12
14		11.5	11.4	11.4	11.2	11.1	11.0	10.9	10.7	10.5	14
16			9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.4	16
18				7.6	7.4	7.3	7.2	7.1	7.0	6.8	18
20				6.4	6.2	6.1	6.0	5.8	5.7	5.6	20
22					5.2	5.1	5.0	4.8	4.7	4.6	22
24						4.2	4.2	4.0	3.9	3.7	24
26							3.5	3.3	3.2	3.1	26
28							2.9	2.8	2.6	2.5	28
30								2.3	2.1	2.0	30

Notes 注释:
① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.
② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.
③ When the boom length is 37 m or longer, boom raising pads must be added during boom lifting.
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。
② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。
③ 当臂长大于等于37m，起臂时需增加起臂垫板。

m	Load on main hook, Boom length 13~31m, Without runner (Rear counterweight 0t + Carbody counterweight 0t) 主钩带载，主臂13~31m，不带加长臂 (后配重0t+中央配重0t)							m
	13	16	19	22	25	28	31	
4	51.5							4
4.5	43.0	40.1						4.5
5	36.7	34.6	32.6					5
5.5	32.0	30.3	28.7	27.3				5.5
6	28.3	26.9	25.6	24.4				6
7	21.8	21.8	20.8	20.0	19.0	18.2		7
8	17.4	17.4	17.4	16.8	16.0	15.3	14.7	8
9	14.4	14.4	14.3	14.3	13.7	13.1	12.6	9
10	12.1	12.1	12.0	12.0	11.9	11.4	10.9	10
12	9.0	9.0	8.9	8.9	8.7	8.6	8.4	12
14		6.9	6.8	6.8	6.6	6.5	6.4	14
16			5.4	5.3	5.1	5.0	4.9	16
18				4.2	4.0	3.9	3.8	18
20				3.4	3.2	3.0	3.0	20
22					2.5	2.3	2.3	22

Notes 注释:
① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.
② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.
③ When the boom length is 28 m or longer, boom raising pads must be added during boom lifting.
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。
② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。
③ 当臂长大于等于28m，起臂时需增加起臂垫板。

07 Working Radius-HC
工况作业范围图- HC工况



07 Load Chart-HC
工况载荷表- HC工况

Unit: t

m	Rear counterweight 39.5t + Carbody counterweight 10t 后配重39.5t+中央配重10t																m
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	
5	15.0																5
5.5	15.0	15.0															5.5
6	15.0	15.0	15.0														6
7	15.0	15.0	15.0	15.0	15.0												7
8	15.0	15.0	15.0	15.0	15.0	15.0	15.0										8
9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0								9
10	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0						10
12	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		12
14		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	14
16		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	16
18			15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	18
20				15.0	14.9	14.7	14.7	14.5	14.4	14.2	14.1	13.9	13.8	13.6	13.5	13.2	20
22					12.9	12.8	12.7	12.6	12.5	12.3	12.1	12	11.9	11.7	11.5	11.4	22
24					11.4	11.2	11.2	11.0	10.9	10.7	10.6	10.4	10.3	10.1	10.0	9.8	24
26						9.9	9.9	9.7	9.6	9.4	9.3	9.1	9.0	8.8	8.6	8.5	26
28							8.8	8.6	8.5	8.3	8.2	8.0	7.9	7.7	7.5	7.4	28
30								7.7	7.5	7.4	7.2	7.1	7.0	6.7	6.6	6.4	30
32									6.7	6.6	6.4	6.3	6.2	5.9	5.8	5.6	32
34									6	5.9	5.7	5.5	5.4	5.2	5.1	4.9	34
36										5.2	5.1	4.9	4.8	4.6	4.4	4.2	36
38											4.5	4.3	4.2	4.0	3.9	3.7	38
40												3.8	3.7	3.5	3.3	3.2	40
42												3.4	3.3	3.0	2.9	2.7	42
44													2.9	2.6	2.5	2.3	44
46														2.3	2.1		46

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

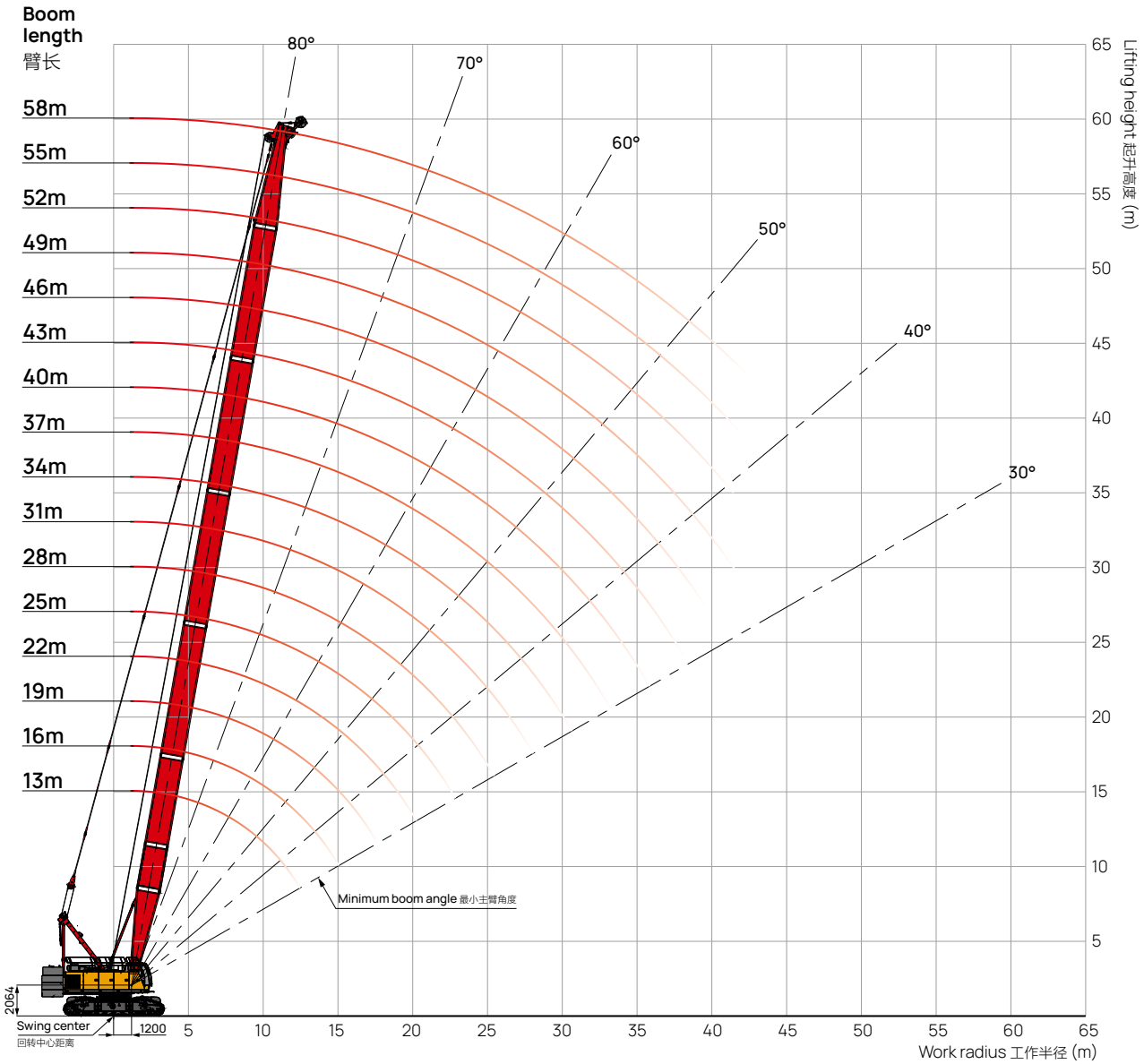
③ When the boom length is 55 m or longer, boom raising pads must be added during boom lifting.

①实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

②表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③当臂长大于等于55m，起臂时需增加起臂垫板。

07 Working Radius-HCm
工况作业范围图- HCm工况



07 Load Chart-HCm
工况载荷表- HCm工况

Unit: t

m	Rear counterweight 39.5t + Carbody counterweight 10t 后配重39.5t+中央配重10t																m
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	
4	100																4
4.5	100	100															4.5
5	94.9	94.7	94.6														5
5.5	86.6	86.4	86.2	82.8													5.5
6	79.5	79.4	78.0	74.6													6
7	66.0	66.0	64.5	62.1	59.7	57.5											7
8	53.6	53.6	53.6	53.0	51.2	49.5	47.9	46.4									8
9	44.9	44.9	44.9	44.9	44.6	43.2	42.0	40.7	39.5	38.4							9
10	38.5	38.5	38.4	38.4	38.3	38.2	37.3	36.2	35.2	34.2	33.2	32.3					10
12	29.7	29.7	29.6	29.6	29.4	29.3	29.2	29.1	28.6	27.9	27.1	26.4	25.7	25.0	24.3	23.6	12
14		23.9	23.8	23.8	23.6	23.5	23.4	23.3	23.1	23.0	22.6	22	21.5	20.9	20.3	19.7	14
16			19.7	19.7	19.5	19.3	19.3	19.1	19.0	18.9	18.7	18.6	18.3	17.7	17.2	16.7	16
18				16.6	16.4	16.3	16.2	16.1	15.9	15.8	15.6	15.5	15.4	15.2	14.8	14.3	18
20				14.2	14.0	13.9	13.8	13.7	13.6	13.4	13.2	13.1	13.0	12.8	12.6	12.4	20
22					12.2	12.0	11.9	11.8	11.7	11.5	11.3	11.2	11.1	10.9	10.7	10.5	22
24						10.5	10.4	10.2	10.1	10.0	9.8	9.6	9.5	9.3	9.2	9.0	24
26							9.1	8.9	8.8	8.7	8.5	8.4	8.2	8.0	7.9	7.7	26
28							8.0	7.9	7.7	7.6	7.4	7.3	7.1	6.9	6.8	6.6	28
30								6.9	6.8	6.6	6.5	6.3	6.2	6.0	5.8	5.6	30
32									6	5.8	5.7	5.5	5.4	5.2	5.0	4.8	32
34										5.1	5.0	4.8	4.7	4.5	4.3	4.1	34
36										4.5	4.3	4.2	4.1	3.8	3.7	3.5	36
38											3.8	3.6	3.5	3.3	3.1	2.9	38
40												3.1	3.0	2.8	2.6	2.4	40
42													2.6	2.3	2.2	2.0	42

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

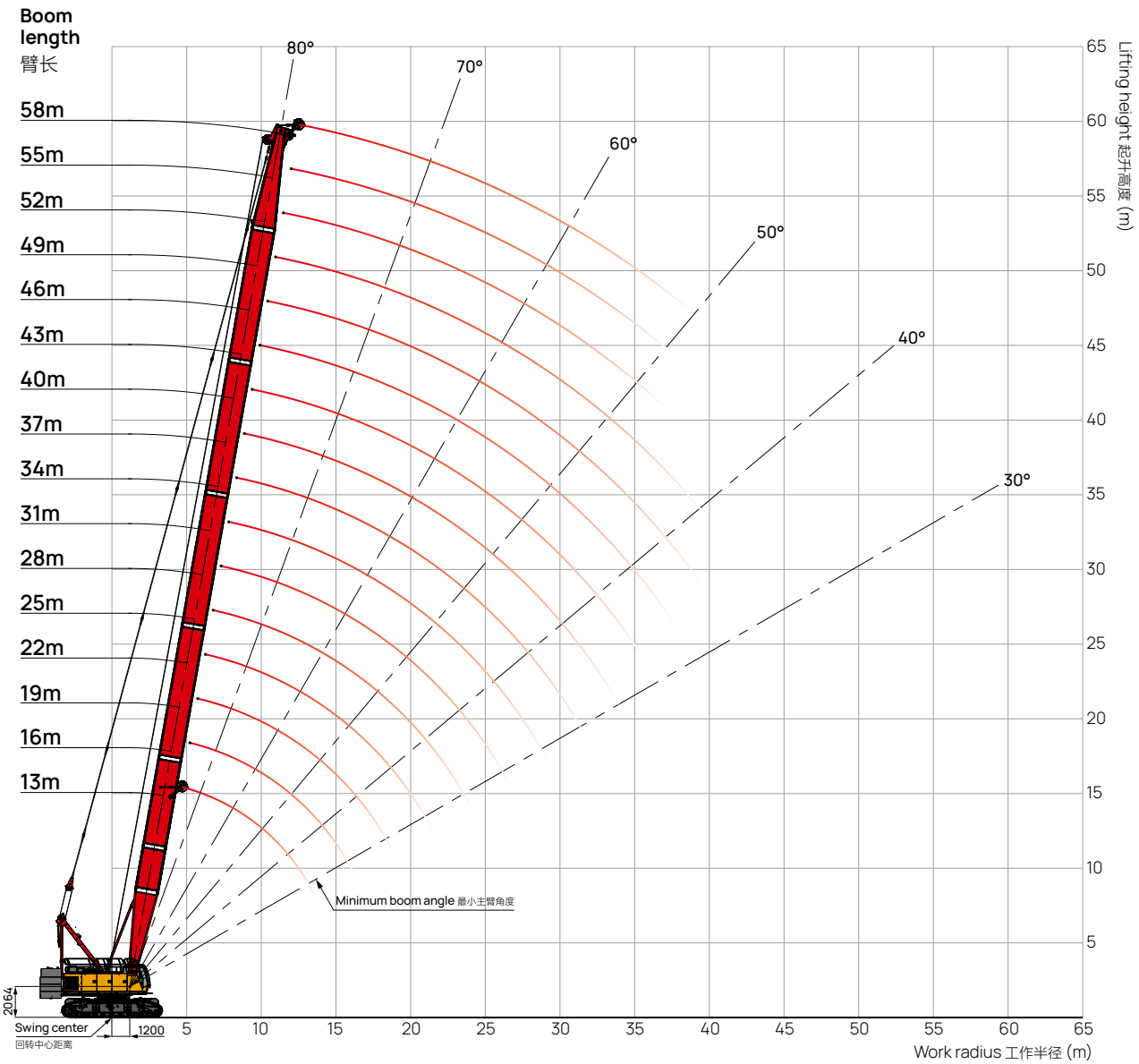
③ When the boom length is 55 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于55m，起臂时需增加起臂垫板。

07 Working Radius-HCa
工况作业范围图- HCa工况



07 Load Chart-HCa
工况载荷表- HCa工况

Unit: t

m	Rear counterweight 39.5t + Carbody counterweight 10t 后配重39.5t+中央配重10t																m
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	
5	15.0																5
5.5	15.0	15.0															5.5
6	15.0	15.0	15.0														6
7	15.0	15.0	15.0	15.0	15.0												7
8	15.0	15.0	15.0	15.0	15.0	15.0	15.0										8
9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0								9
10	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0						10
12	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		12
14		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	14
16		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	16
18			15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	14.9	14.8	14.7	14.3	13.9	13.4	18
20				13.5	13.3	13.2	13.1	13	12.8	12.7	12.5	12.4	12.3	12.1	11.9	11.4	20
22					11.4	11.3	11.2	11.0	10.9	10.8	10.6	10.5	10.3	10.1	10	9.8	22
24					9.8	9.7	9.6	9.5	9.3	9.2	9.0	8.9	8.8	8.5	8.4	8.2	24
26						8.4	8.3	8.2	8.0	7.9	7.7	7.6	7.5	7.2	7.1	6.9	26
28							7.2	7.1	6.9	6.8	6.6	6.5	6.4	6.1	6.0	5.8	28
30								6.1	6.0	5.8	5.7	5.5	5.4	5.2	5.0	4.8	30
32									5.2	5.0	4.8	4.7	4.6	4.3	4.2	4.0	32
34									4.4	4.3	4.1	4.0	3.9	3.6	3.5	3.3	34
36										3.6	3.5	3.3	3.2	3.0	2.8	2.7	36
38											2.9	2.8	2.7	2.4	2.3	2.1	38
40												2.3	2.1				40

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 55 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于55m，起臂时需增加起臂垫板。

07 FJ Configuration
FJ工况臂架组合

9m B T

13.5m B 4.5m T

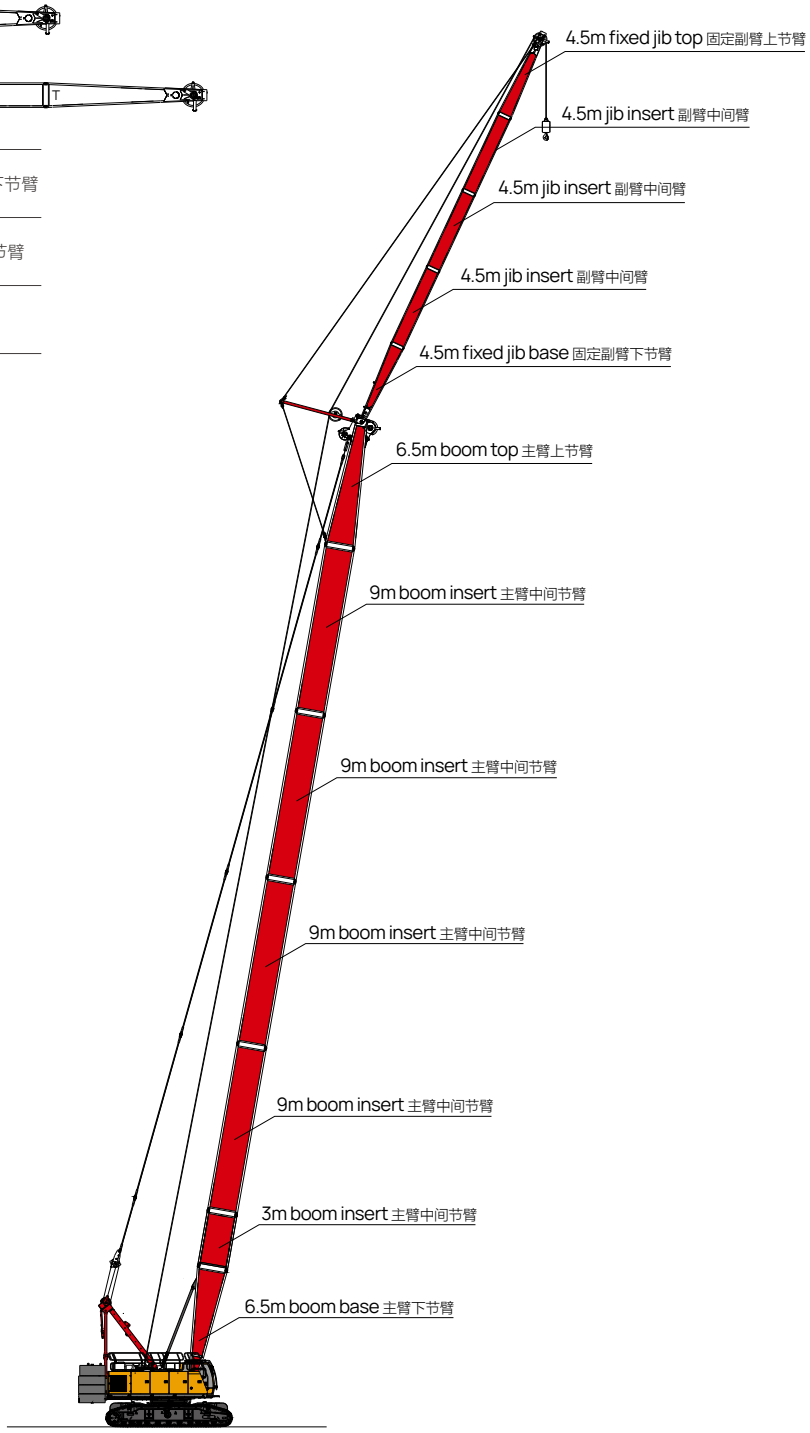
18m B 4.5m 4.5m T

22.5m B 4.5m 4.5m 4.5m T

B ■ 4.5m fixed jib base 固定副臂下节臂

T ■ 4.5m fixed jib top 固定副臂上节臂

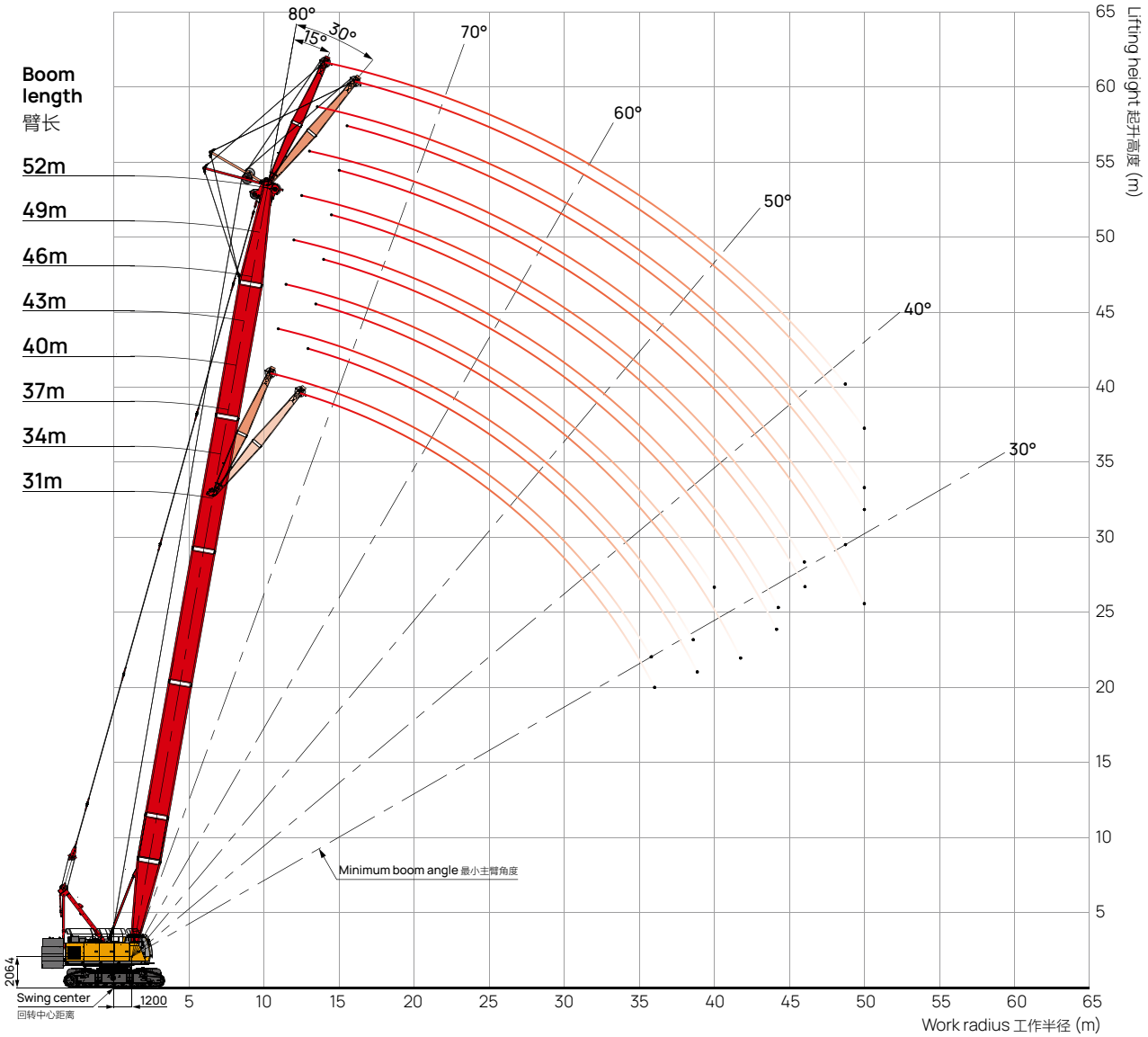
4.5m ■ 4.5m jib insert 副臂中间臂



FJ Configuration
(31m~52m)+(9m~22.5m)

07 Working Radius-FJ (9m)

工况作业范围图- FJ (9m)工况



07 Load Chart-FJ (9m)
工况载荷表- FJ (9m)工况

Unit: t

m	9m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t 9m固定副臂，后配重39.5t+中央配重10t																m
	31		34		37		40		43		46		49		52		
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	
11	12.5																11
12	12.5		12.5		12.5												12
13	12.5	12.4	12.5		12.5		12.5		12.5								13
14	12.5	12.3	12.5	12.2	12.5	12.2	12.5		12.5		12.5		12.5				14
15	12.5	12.2	12.5	12.1	12.5	12.1	12.5	12.1	12.5	12	12.5		12.5		12.5		15
16	12.5	12.1	12.5	12.1	12.5	12	12.5	12	12.5	11.9	12.5	11.9	12.5	11.8	12.5		16
18	12.5	11.9	12.5	11.9	12.5	11.9	12.5	11.9	12.5	11.8	12.5	11.7	12.5	11.6	12.5	11.5	18
20	12.5	11.4	12.5	11.6	12.5	11.7	12.5	11.8	12.5	11.7	12.5	11.6	12.5	11.5	12.5	11.4	20
22	12.5	10.9	12.5	11.2	12.5	11.4	12.5	11.6	12.5	11.5	12.5	11.5	12.5	11.4	12.3	11.4	22
24	11.8	10.5	11.6	10.8	11.5	11	11.3	11.3	11.2	11.5	11	11.4	10.9	11.3	10.7	11.1	24
26	10.5	10.2	10.3	10.5	10.2	10.4	10	10.3	9.8	10.1	9.7	10	9.6	9.9	9.4	9.7	26
28	9.3	9.5	9.2	9.4	9	9.2	8.9	9.1	8.7	9	8.6	8.8	8.4	8.7	8.2	8.5	28
30	8.4	8.5	8.2	8.4	8.1	8.2	7.9	8.1	7.7	8	7.6	7.8	7.5	7.7	7.3	7.5	30
32	7.6	7.7	7.4	7.5	7.2	7.4	7.1	7.3	6.9	7.1	6.8	7	6.6	6.9	6.4	6.7	32
34	6.8	6.9	6.7	6.7	6.5	6.6	6.4	6.5	6.2	6.3	6	6.2	5.9	6.1	5.7	5.9	34
36	6.2	6.2	6	6.1	5.9	6	5.7	5.8	5.5	5.7	5.4	5.5	5.3	5.4	5	5.2	36
38			5.4	5.5	5.3	5.4	5.1	5.2	5	5.1	4.8	4.9	4.7	4.8	4.5	4.6	38
40					4.8	4.8	4.6	4.7	4.4	4.5	4.3	4.4	4.2	4.3	3.9	4.1	40
42					4.3	4.3	4.2	4.2	4	4.1	3.8	3.9	3.7	3.8	3.5	3.6	42
44							3.7	3.7	3.6	3.6	3.4	3.5	3.3	3.4	3.1	3.2	44
46									3.2	3.2	3	3.1	2.9	3	2.7	2.8	46
48											2.7	2.7	2.5	2.6	2.3	2.4	48
50												2.3	2.2	2.3	2	2.1	50

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

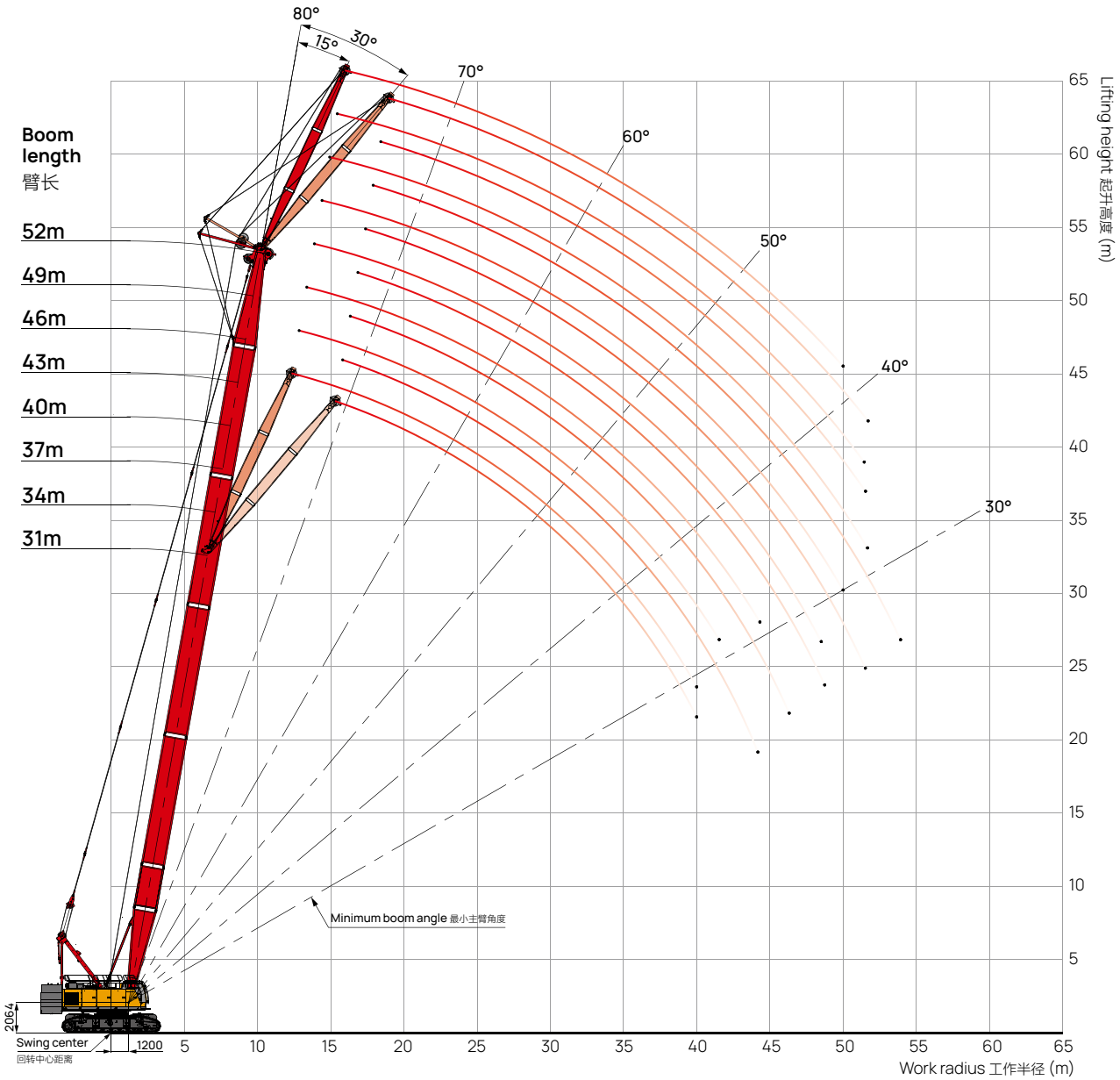
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJ (13.5m)

工况作业范围图- FJ (13.5m)工况



07 Load Chart-FJ (13.5m)

工况载荷表- FJ (13.5m)工况

Unit: t

m	13.5m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t 13.5m固定副臂，后配重39.5t+中央配重10t																m
	31		34		37		40		43		46		49		52		
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	
13	12.5																13
14	12.5		12.5		12.4												14
15	12.3		12.3		12.2		12.2		12.2								15
16	12.1	9.3	12.2		12.1		12.1		12.1		11.9		11.8				16
18	11.8	9.2	11.8	9.2	11.9	9.1	11.8	9.2	11.8	9.1	11.7		11.7		11.5		18
20	11.5	8.8	11.6	8.9	11.6	9	11.6	9	11.5	8.9	11.5	8.9	11.4	8.9	11.3	8.8	20
22	10.9	8.4	11.3	8.6	11.4	8.7	11.4	8.8	11.4	8.9	11.3	8.8	11.2	8.8	11.1	8.7	22
24	10.3	8	10.6	8.2	11	8.4	11.1	8.5	11.1	8.7	11.1	8.7	11	8.7	11	8.6	24
26	9.7	7.7	10.1	7.9	10.4	8.1	10.4	8.2	10.2	8.4	10.1	8.5	9.9	8.6	9.8	8.5	26
28	9.2	7.5	9.5	7.7	9.4	7.8	9.2	8	9.1	8.1	8.9	8.3	8.8	8.4	8.6	8.5	28
30	8.7	7.2	8.5	7.4	8.4	7.6	8.2	7.7	8.1	7.9	7.9	8	7.8	8.2	7.6	8	30
32	7.9	7	7.7	7.2	7.5	7.4	7.4	7.5	7.2	7.5	7.1	7.4	7	7.3	6.8	7.1	32
34	7.1	6.8	7	7	6.8	7	6.7	6.9	6.5	6.8	6.3	6.6	6.2	6.5	6	6.4	34
36	6.5	6.6	6.3	6.5	6.2	6.3	6	6.2	5.8	6.1	5.7	5.9	5.6	5.8	5.4	5.7	36
38	5.9	6	5.7	5.8	5.6	5.7	5.4	5.6	5.2	5.5	5.1	5.3	5	5.2	4.8	5	38
40	5.4	5.4	5.2	5.3	5	5.2	4.9	5.1	4.7	4.9	4.6	4.8	4.4	4.7	4.2	4.5	40
42			4.7	4.8	4.6	4.7	4.4	4.6	4.3	4.4	4.1	4.3	4	4.2	3.8	4	42
44				4.3	4.1	4.2	4	4.1	3.8	4	3.7	3.8	3.5	3.7	3.3	3.5	44
46					3.7	3.8	3.6	3.7	3.4	3.5	3.3	3.4	3.2	3.3	2.9	3.1	46
48							3.2	3.3	3.1	3.1	2.9	3	2.8	2.9	2.6	2.7	48
50									2.7	2.8	2.6	2.7	2.5	2.6	2.3	2.4	50
52										2.4	2.3	2.3	2.2	2.2	2	2.1	52

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

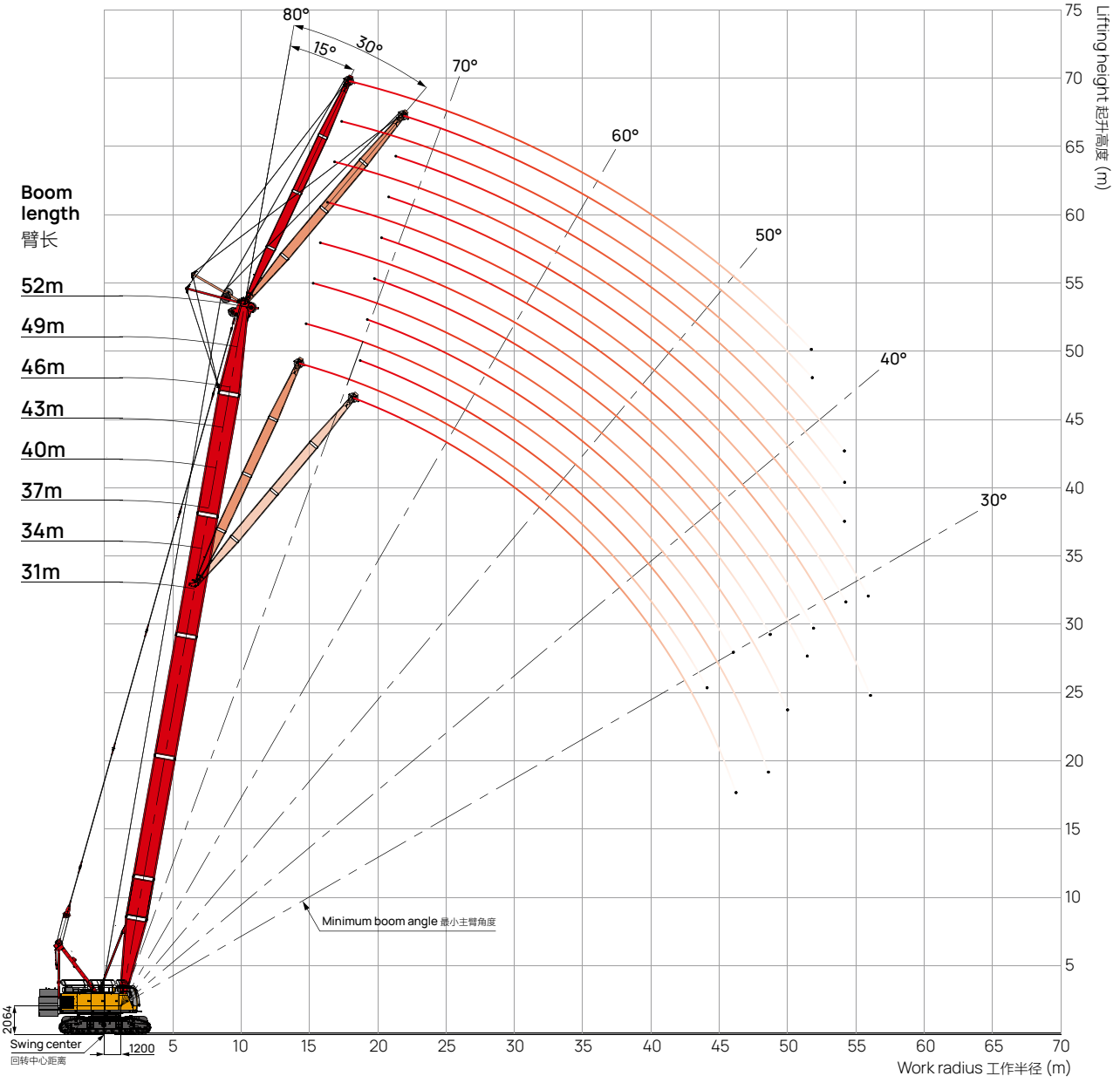
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJ (18m)

工况作业范围图- FJ (18m)工况



07 Load Chart-FJ (18m)
工况载荷表- FJ (18m)工况

Unit: t

m	18m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t 18m固定副臂，后配重39.5t+中央配重10t																m
	31		34		37		40		43		46		49		52		
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	
15	10.3		10.4														15
16	10.2		10.3		10.2												16
18	9.9		9.9		10		9.9		9.9		9.9		9.8				18
20	9.6	7	9.7	7.1	9.7	7.1	9.7		9.7		9.7		9.6		9.5		20
22	9.3	6.7	9.4	6.8	9.4	6.9	9.5	7	9.4	7	9.4	7	9.4	6.9	9.3		22
24	8.8	6.4	9.1	6.5	9.2	6.6	9.2	6.7	9.2	6.8	9.2	6.9	9.2	6.8	9.2	6.8	24
26	8.2	6.1	8.5	6.2	8.8	6.4	9	6.5	9.1	6.6	9.1	6.7	9	6.7	9	6.7	26
28	7.8	5.9	8.1	6	8.4	6.1	8.6	6.2	8.8	6.3	8.9	6.4	8.8	6.5	8.9	6.6	28
30	7.4	5.6	7.7	5.8	7.9	5.9	8.2	6	8.3	6.1	8.2	6.2	8.1	6.3	7.9	6.4	30
32	7	5.4	7.3	5.6	7.5	5.7	7.6	5.8	7.5	5.9	7.3	6	7.2	6.1	7	6.2	32
34	6.7	5.3	6.9	5.4	7	5.5	6.9	5.6	6.7	5.7	6.6	5.8	6.4	5.9	6.3	6	34
36	6.4	5.1	6.5	5.2	6.4	5.4	6.2	5.5	6.1	5.6	5.9	5.7	5.8	5.8	5.6	5.9	36
38	6.1	5	5.9	5.1	5.8	5.2	5.6	5.3	5.5	5.4	5.3	5.5	5.2	5.6	5	5.4	38
40	5.6	4.8	5.4	5	5.3	5.1	5.1	5.2	4.9	5.2	4.8	5.1	4.7	5	4.5	4.8	40
42	5.1	4.7	4.9	4.8	4.8	5	4.6	4.9	4.5	4.7	4.3	4.6	4.2	4.5	4	4.3	42
44	4.7	4.7	4.5	4.6	4.4	4.5	4.2	4.4	4	4.3	3.9	4.1	3.8	4	3.5	3.9	44
46		4.3	4.1	4.2	4	4.1	3.8	4	3.6	3.8	3.5	3.7	3.4	3.6	3.2	3.4	46
48			3.7	3.8	3.6	3.7	3.5	3.6	3.3	3.4	3.1	3.3	3	3.2	2.8	3	48
50					3.3	3.3	3.1	3.2	2.9	3.1	2.8	3	2.7	2.9	2.5	2.7	50
52							2.8	2.9	2.6	2.7	2.5	2.6	2.4	2.5	2.2	2.3	52
54								2.5	2.4	2.4	2.2	2.3	2.1	2.2		2	54
56										2.1		2					56

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

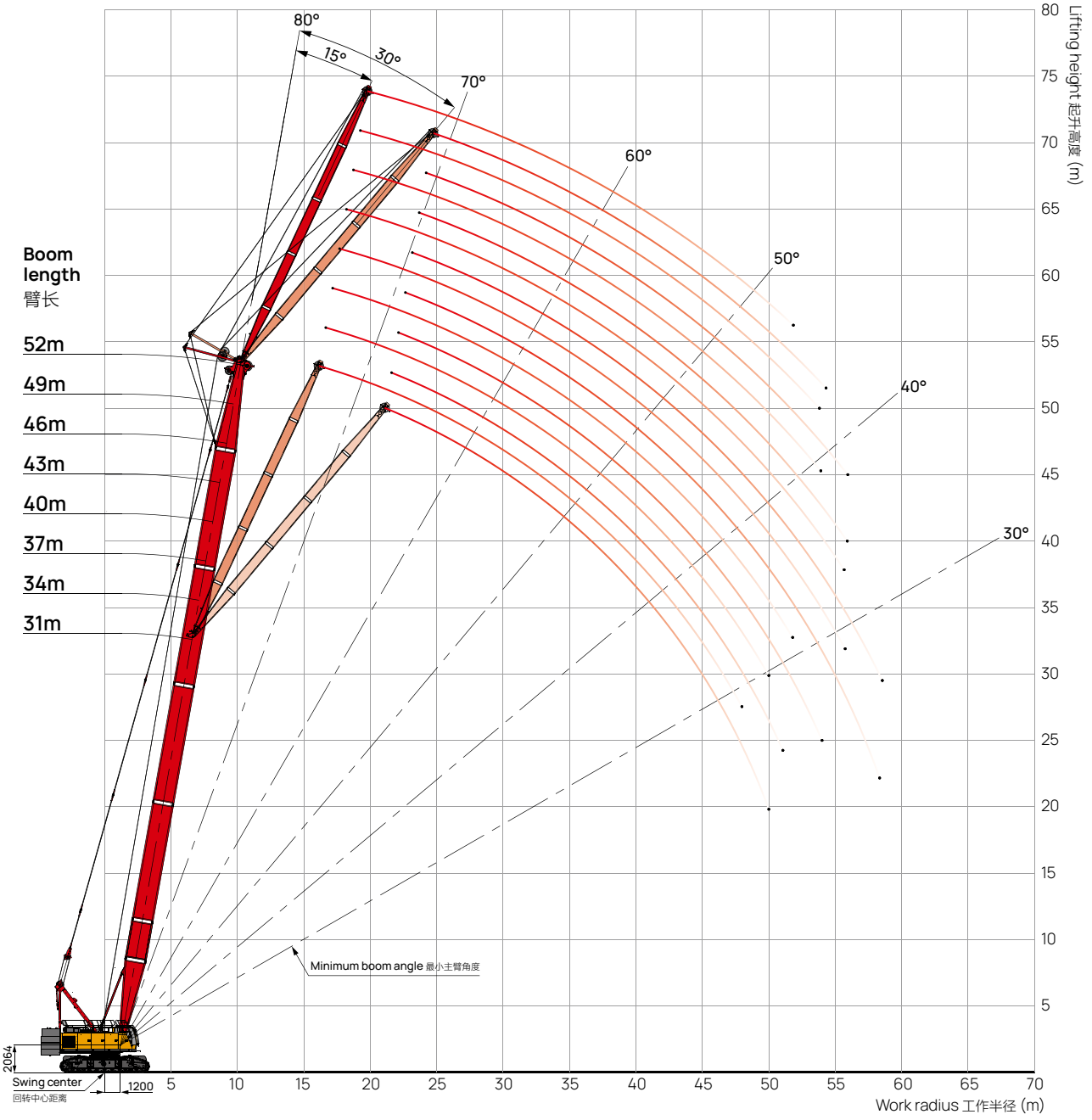
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJ (22.5m)

工况作业范围图- FJ (22.5m)工况



07 Load Chart-FJ (22.5m)

工况载荷表- FJ (22.5m)工况

Unit: t

m	22.5m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t 22.5m固定副臂，后配重39.5t+中央配重10t																m
	31		34		37		40		43		46		49		52		
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	
18	8.3		8.3		8.3		8.3										18
20	7.9		8		8		8.1		8		8		8		7.8		20
22	7.6	5.6	7.7	5.6	7.8		7.8		7.8		7.8		7.8		7.7		22
24	7.3	5.4	7.4	5.4	7.5	5.5	7.5	5.5	7.6	5.5	7.6	5.5	7.6		7.5		24
26	7	5.1	7.1	5.2	7.2	5.3	7.3	5.4	7.3	5.4	7.4	5.4	7.4	5.4	7.3	5.4	26
28	6.7	4.9	6.8	5	6.9	5.1	7	5.1	7.1	5.2	7.1	5.3	7.2	5.3	7.1	5.3	28
30	6.4	4.7	6.5	4.8	6.7	4.9	6.8	4.9	6.9	5	6.9	5.1	7	5.2	6.9	5.2	30
32	6.1	4.5	6.3	4.6	6.4	4.7	6.5	4.8	6.6	4.9	6.7	4.9	6.8	5	6.8	5.1	32
34	5.8	4.3	6	4.4	6.2	4.5	6.3	4.6	6.4	4.7	6.5	4.8	6.6	4.8	6.4	4.9	34
36	5.5	4.2	5.8	4.3	6	4.4	6.1	4.4	6.2	4.5	6.1	4.6	6	4.7	5.8	4.8	36
38	5.3	4	5.5	4.1	5.7	4.2	5.8	4.3	5.6	4.4	5.5	4.5	5.4	4.6	5.2	4.6	38
40	5.1	3.9	5.3	4	5.4	4.1	5.3	4.2	5.1	4.3	5	4.3	4.8	4.4	4.6	4.5	40
42	4.8	3.8	5.1	3.9	4.9	4	4.8	4.1	4.6	4.1	4.5	4.2	4.4	4.3	4.2	4.4	42
44	4.7	3.7	4.7	3.8	4.5	3.9	4.4	3.9	4.2	4	4	4.1	3.9	4.2	3.7	4.1	44
46	4.4	3.6	4.3	3.7	4.1	3.8	4	3.9	3.8	3.9	3.7	4	3.5	3.9	3.3	3.7	46
48	4.1	3.5	3.9	3.6	3.8	3.7	3.6	3.8	3.4	3.7	3.3	3.6	3.2	3.5	3	3.3	48
50		3.5	3.6	3.5	3.4	3.6	3.3	3.5	3.1	3.3	3	3.2	2.8	3.1	2.6	2.9	50
52			3.3	3.3	3.1	3.2	3	3.1	2.8	3	2.7	2.9	2.5	2.8	2.3	2.6	52
54					2.8	2.9	2.7	2.8	2.5	2.7	2.4	2.6	2.2	2.5	2	2.3	54
56							2.4	2.5	2.3	2.4	2.1	2.3	2	2.2		2	56
58								2.2		2.1		2					58

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

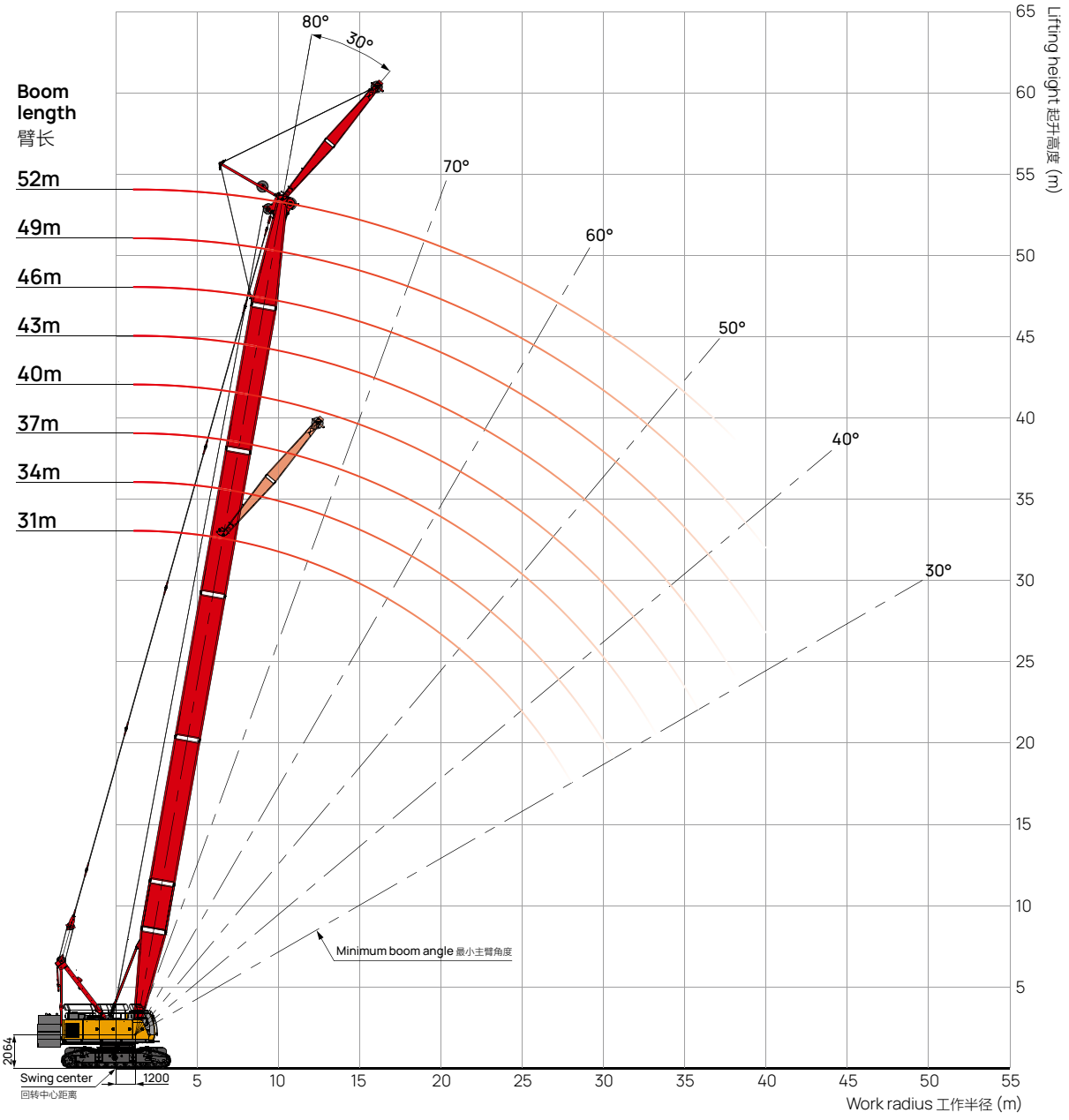
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJm (9m)

工况作业范围图- FJm (9m)工况



07 Load Chart-FJm (9m)
工况载荷表- FJm (9m)工况

Unit: t

m	9m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t, Boom-jib angle 30° 9m固定副臂，后配重39.5t+中央配重10t，主副臂夹角30°								m
	31	34	37	40	43	46	49	52	
8	46.2	44.6							8
9	40.3	39.1	37.9	36.7					9
10	35.7	34.6	33.6	32.6	31.7	30.8			10
12	27.9	27.8	27.1	26.4	25.6	24.9	24.3	23.5	12
14	22.2	22	21.9	21.8	21.2	20.7	20.1	19.5	14
16	18.1	18	17.8	17.7	17.5	17.4	16.9	16.4	16
18	15.1	14.9	14.8	14.7	14.5	14.4	14.3	13.9	18
20	12.8	12.6	12.5	12.3	12.2	12	11.9	11.7	20
22	10.9	10.7	10.6	10.5	10.3	10.1	10	9.8	22
24	9.4	9.2	9.1	8.9	8.8	8.6	8.5	8.3	24
26	8.1	7.9	7.8	7.7	7.5	7.3	7.2	7	26
28	7	6.9	6.7	6.6	6.4	6.3	6.2	5.9	28
30		6	5.8	5.7	5.5	5.4	5.2	5	30
32			5	4.9	4.7	4.6	4.4	4.2	32
34				4.2	4	3.9	3.7	3.5	34
36				3.6	3.4	3.3	3.1	2.9	36
38					2.9	2.7	2.6	2.3	38
40						2.2	2.1		40

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

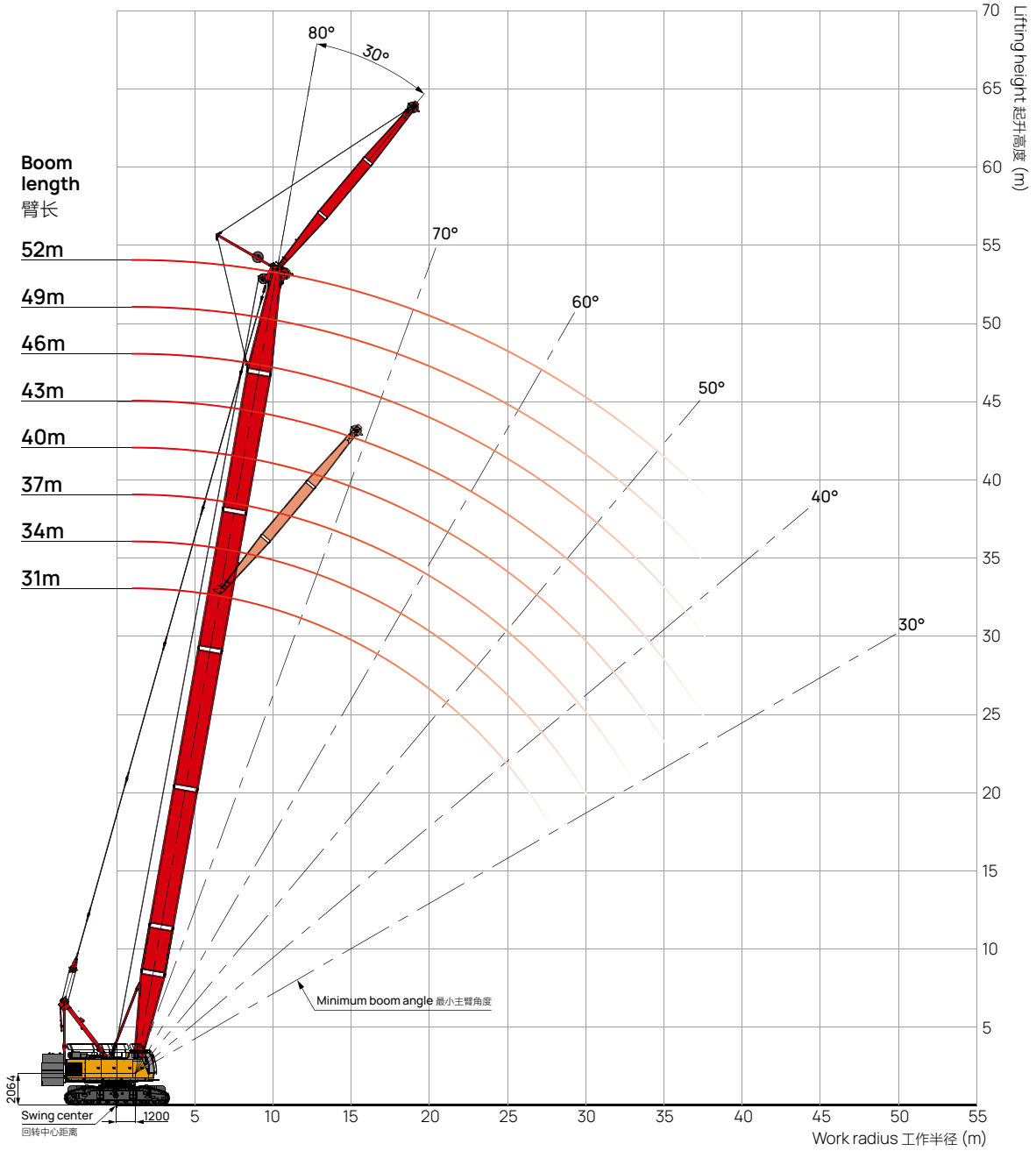
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJm (13.5m)

工况作业范围图- FJm (13.5m)工况



07 Load Chart-FJm (13.5m)

工况载荷表- FJm (13.5m)工况

Unit: t

m	13.5m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t, Boom-jib angle 30° 13.5m固定副臂，后配重39.5t+中央配重10t，主副臂夹角30°								m
	31	34	37	40	43	46	49	52	
8	45.4	43.8							8
9	39.6	38.3	37.2	36					9
10	35	33.9	32.9	32	31	30.1			10
12	27.3	27.2	26.5	25.8	25	24.3	23.7	22.9	12
14	21.6	21.5	21.4	21.2	20.7	20.1	19.6	18.9	14
16	17.6	17.4	17.3	17.2	17	16.9	16.4	15.8	16
18	14.6	14.4	14.3	14.2	14	13.9	13.8	13.4	18
20	12.3	12.1	12	11.9	11.7	11.6	11.5	11.2	20
22	10.4	10.3	10.2	10	9.9	9.7	9.6	9.4	22
24	8.9	8.8	8.7	8.5	8.3	8.2	8.1	7.9	24
26	7.7	7.5	7.4	7.3	7.1	6.9	6.8	6.6	26
28	6.6	6.5	6.4	6.2	6	5.9	5.8	5.5	28
30		5.6	5.5	5.3	5.1	5	4.9	4.6	30
32			4.7	4.5	4.3	4.2	4.1	3.8	32
34				3.8	3.7	3.5	3.4	3.2	34
36				3.2	3.1	2.9	2.8	2.5	36
38					2.5	2.4	2.3	2	38

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

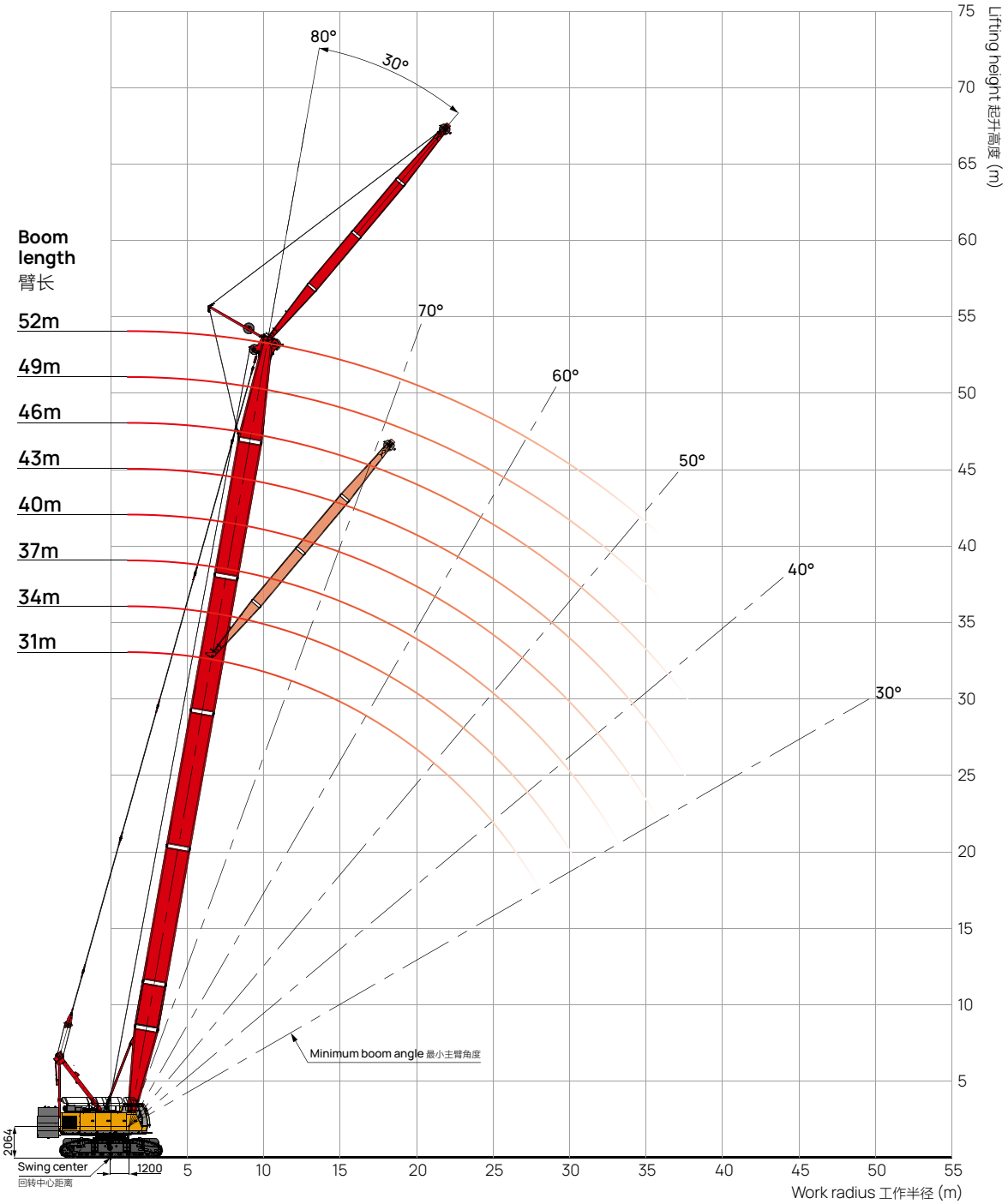
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJm (18m)

工况作业范围图- FJm (18m)工况



07 Load Chart-FJm (18m)
工况载荷表- FJm (18m)工况

Unit: t

m	18m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t, Boom-jib angle 30° 18m固定副臂，后配重39.5t+中央配重10t，主副臂夹角30°								m
	31	34	37	40	43	46	49	52	
8	44.5	43							8
9	38.8	37.5	36.4	35.3					9
10	34.2	33.2	32.2	31.2	30.3	29.4			10
12	26.6	26.5	25.8	25.1	24.4	23.7	23.1	22.3	12
14	21	20.9	20.8	20.7	20.1	19.5	19	18.3	14
16	17	16.9	16.8	16.7	16.5	16.3	15.9	15.3	16
18	14.1	13.9	13.8	13.7	13.5	13.4	13.3	12.9	18
20	11.8	11.6	11.5	11.4	11.2	11.1	11	10.8	20
22	10	9.8	9.7	9.6	9.4	9.3	9.2	8.9	22
24	8.5	8.3	8.2	8.1	7.9	7.8	7.7	7.4	24
26	7.3	7.1	7	6.8	6.7	6.5	6.4	6.2	26
28	6.2	6.1	5.9	5.8	5.6	5.5	5.4	5.1	28
30		5.2	5	4.9	4.7	4.6	4.5	4.2	30
32			4.3	4.1	4	3.8	3.7	3.5	32
34				3.5	3.3	3.1	3	2.8	34
36				2.9	2.7	2.5	2.4	2.2	36
38					2.2	2			38

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.

② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.

③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

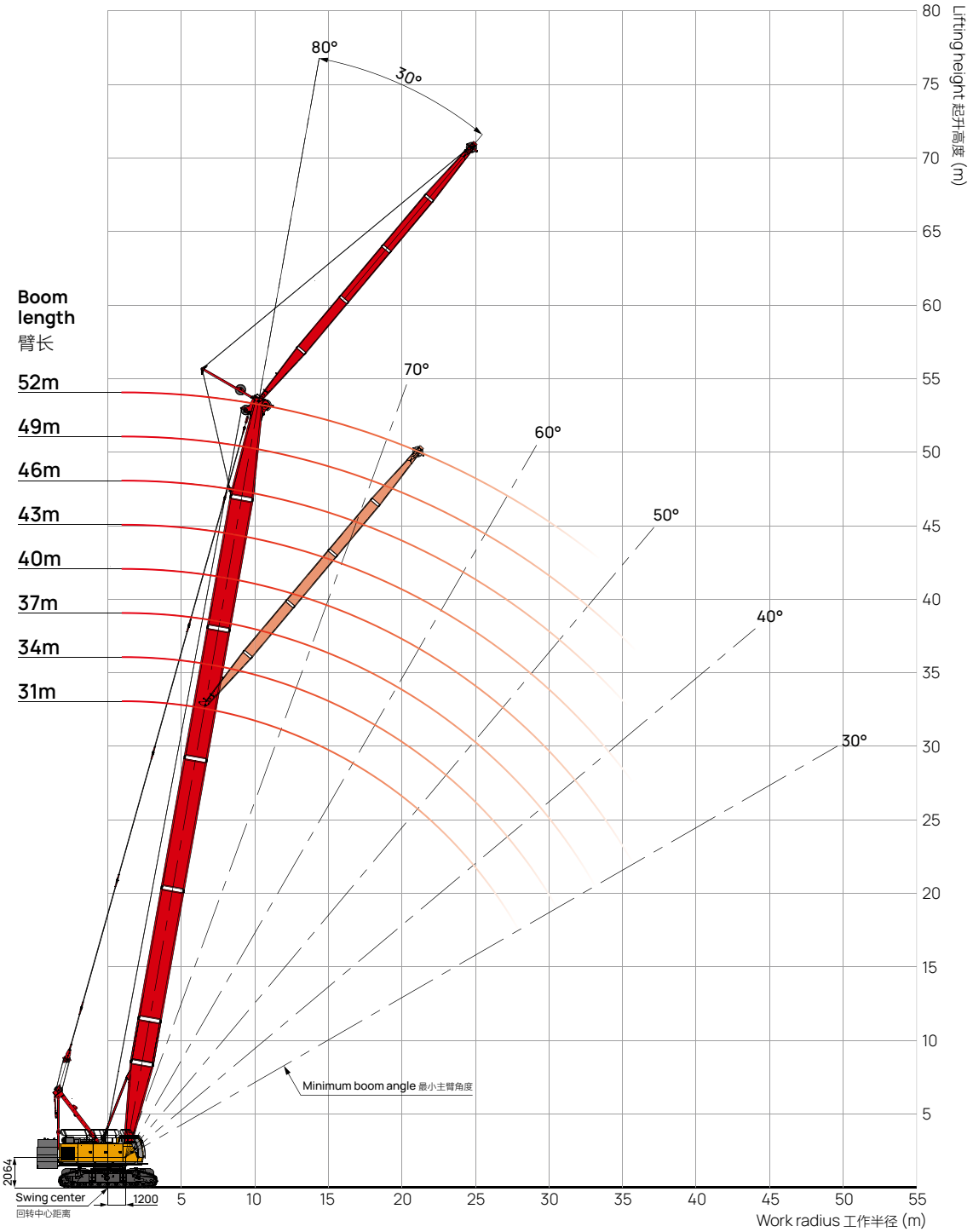
① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。

② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。

③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Working Radius-FJm (22.5m)

工况作业范围图- FJm (22.5m)工况



07 Load Chart-FJm (22.5m)

工况载荷表- FJm (22.5m)工况

Unit: t

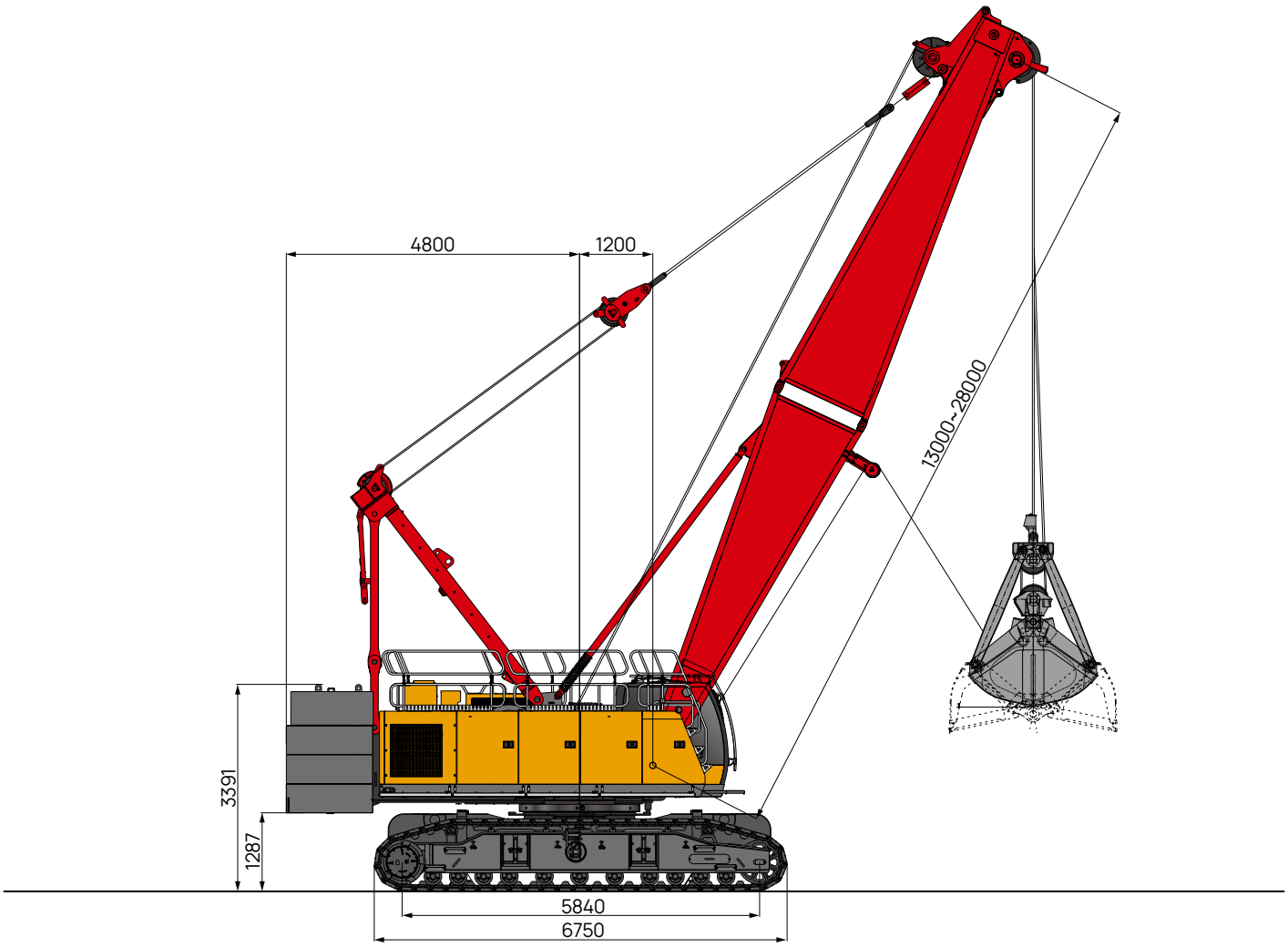
m	22.5m fixed jib, Rear counterweight 39.5t + Carbody counterweight 10t, Boom-jib angle 30° 22.5m固定副臂，后配重39.5t+中央配重10t，主副臂夹角30°								m
	31	34	37	40	43	46	49	52	
8	43.5	42.1							8
9	37.9	36.7	35.6	34.5					9
10	33.4	32.3	31.4	30.5	29.5	28.7			10
12	25.9	25.8	25.1	24.4	23.7	23	22.4	21.7	12
14	20.3	20.2	20.1	20	19.4	18.9	18.4	17.7	14
16	16.4	16.3	16.2	16.1	15.9	15.7	15.3	14.7	16
18	13.5	13.4	13.3	13.1	13	12.9	12.8	12.3	18
20	11.2	11.1	11	10.9	10.7	10.6	10.5	10.3	20
22	9.4	9.3	9.2	9.1	8.9	8.8	8.7	8.5	22
24	8	7.8	7.7	7.6	7.4	7.3	7.2	7	24
26	6.8	6.6	6.5	6.4	6.2	6.1	6	5.8	26
28	5.8	5.6	5.5	5.4	5.2	5.1	4.9	4.7	28
30		4.7	4.6	4.5	4.3	4.2	4.1	3.8	30
32			3.9	3.7	3.5	3.4	3.3	3.1	32
34				3	2.9	2.7	2.6	2.4	34
36				2.5	2.3	2.1	2		36

Notes 注释:

① The actual lifting capacity must be obtained by deducting the weight of the hook, lifting attachments, and the wire rope wound around the hook and boom tip from the rated load shown in this table.
② The rated loads listed in this table are based on operations conducted on level, firm ground with the load lifted slowly and steadily, and do not apply to pick-and-carry operations.
③ When the boom length is 49 m or longer, boom raising pads must be added during boom lifting.

① 实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳重量。
② 表中所示额定载荷是在水平坚硬土壤地面、重物被缓慢平稳吊起、非行走吊重工作时的值。
③ 当臂长大于等于49m，起臂时需增加起臂垫板。

07 Clamshell Grapple Configuration
蛤壳式抓斗工况



Boom length 臂架长度(m)	13					16					19				
Boom angle 臂架角度(°)	40	45	55	65	72	40	45	55	65	72	40	45	55	65	72
Working radius 工作半径(m)	11.5	10.8	9.1	7.2	5.7	13.8	12.9	10.8	8.4	6.6	16.1	15.0	12.5	9.7	7.6
Permissible total load 允许总载荷(t)	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Boom length 臂架长度(m)	**22**					**25**					**28**				
Boom angle 臂架角度(°)	40	45	55	65	72	40	45	55	65	72	40	45	55	65	72
Working radius 工作半径(m)	18.4	17.1	14.2	11.0	8.5	20.7	19.2	16.0	12.2	9.4	23.0	21.4	17.7	13.5	10.3
Permissible total load 允许总载荷(t)	11.3	12.6	13.5	13.5	13.5	9.3	10.6	13.5	13.5	13.5	8.0	9.00	12.0	13.5	13.5

07 Clamshell Grapple Configuration
蛤壳式抓斗工况

Unit: t

m	Rear counterweight 39.5t + Carbody counterweight 10t 后配重39.5t+中央配重10t						m
	13	16	19	22	25	28	
6	13.5						6
6.5	13.5	13.5					6.5
7	13.5	13.5	13.5				7
8	13.5	13.5	13.5	13.5			8
9	13.5	13.5	13.5	13.5	13.5		9
10	13.5	13.5	13.5	13.5	13.5	13.5	10
12	13.5	13.5	13.5	13.5	13.5	13.5	12
14		13.5	13.5	13.5	13.5	13.5	14
16			13.5	13.5	13.5	13.5	16
18				11.7	11.6	11.5	18
20				10.1	10.0	9.9	20
22					8.7	8.6	22

Notes 注释:

① Max. rating of the grapple is 13.5t (including the weight of hook, lifting tools, and the wire rope wound around the hook and boom tip).
② In case of clamshell application, a 13m boom is recommended as the minimum boom length, and the maximum boom length shall not exceed 28m.
③ The rated gross load for clamshell grapple operation shall not exceed 66.7% of the tipping load.
④ The total load of any selected grapple shall not exceed the rated load specified above, and braking is not allowed during rapid lowering of the grapple.
⑤ The effect of suction force shall be taken into account during lifting operations, and overloading is strictly prohibited.
⑥ The counterweight configuration consists of a 39.5t rear counterweight and a 10t carbody counterweight.

① 抓斗最大额定载荷为13.5t (包含吊钩、吊具及缠绕在吊钩和臂头上的钢丝绳重量)。
② 进行抓斗作业时，推荐主臂最小长度为13m，最大长度不应超过28m。
③ 蛤壳式抓斗操作的额定总载荷不得超过倾覆载荷的66.7%。
④ 选用任何抓斗都不应超过上面的额定总载荷，且抓斗在快速下放过程中不得制动。
⑤ 抓取起升时考虑吸附力对载荷的影响，不可超载施工。
⑥ 配重块的使用为后配重39.5t加中央配重10t。