



POWERLIFT 2000 · 拓力 2000

70t capacity · 70t 起重能力

Crawler Crane

履带起重机

DATASHEET METRIC

参数表 (公制)

POWERLIFT 2000

拓力 2000



WORKS FOR YOU.™



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POWERLIFT 2000 拓力 2000

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KEY · 关键词汇

POWERLIFT 2000
拓力 2000



Counterweight · 配重



Track · 履带



Load radius · 载荷半径



Main boom · 主臂



Fixed jib · 固定副臂



Main boom angle · 主臂角度



Fixed jib angle · 固定副臂角度

"D"



H: Main boom · 主臂

F: Fixed jib · 固定副臂



HIGHLIGHTS · 技术亮点

POWERLIFT 2000 拓力 2000

- ▶ 70 t lifting capacity at 3.8 m radius
- ▶ Excellent lifting capacities throughout the whole working range
- ▶ Advantages with sole gantry structure for the same scale in its field, easy assembly and short rigging time
- ▶ Imported controller with colored display

- ▶ 3.8 m半径内的70吨履带起重机
- ▶ 任何工作范围都具有优异的起重性能
- ▶ 国内同级别唯一采用扳起架型式，组装极为简化，缩短装配时间
- ▶ 进口控制器配以彩色显示屏、监视器





SPECIFICATIONS · 技术参数

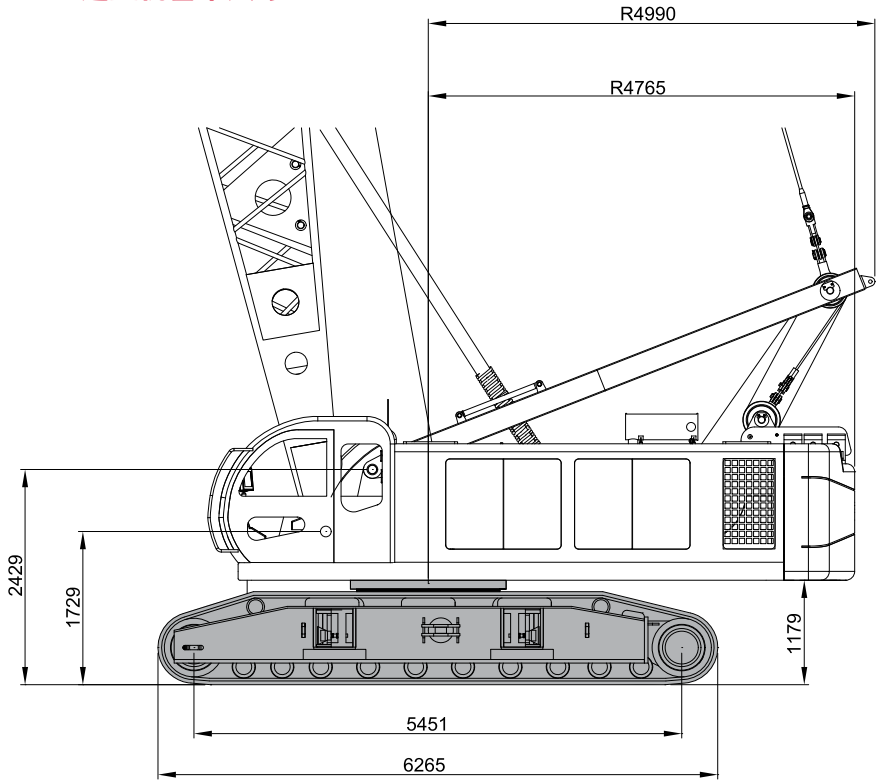
POWERLIFT 2000
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Working speeds · 工作速度

Mechanisms 机械部分	Rope ø 钢绳 ø	Speeds ¹⁾ 速度 ¹⁾	Single line pull ²⁾ 单绳拉力 ²⁾	Length of hoist rope 卷扬钢绳的长度
Hoist I (H1) 卷扬 I (H1)	20 mm	max. 120 m / min	67 kN / 57 kN	235 m
Hoist II (H2) 卷扬 II (H2)	20 mm	max. 120 m / min	63 kN / 59 kN	180 m
Boom derricking (W) 主臂变幅 (W)	22 mm	max. 41 m / min	72 kN / 68 kN	140 m
Slewing (rpm) 回转 (rpm)		1.7		

1) top layer · 顶层
2) without / with reeving effect considered · 不考虑/考虑穿绳效率

Basic crane dimensions · 起重机基本尺寸





SPECIFICATIONS · 技术参数

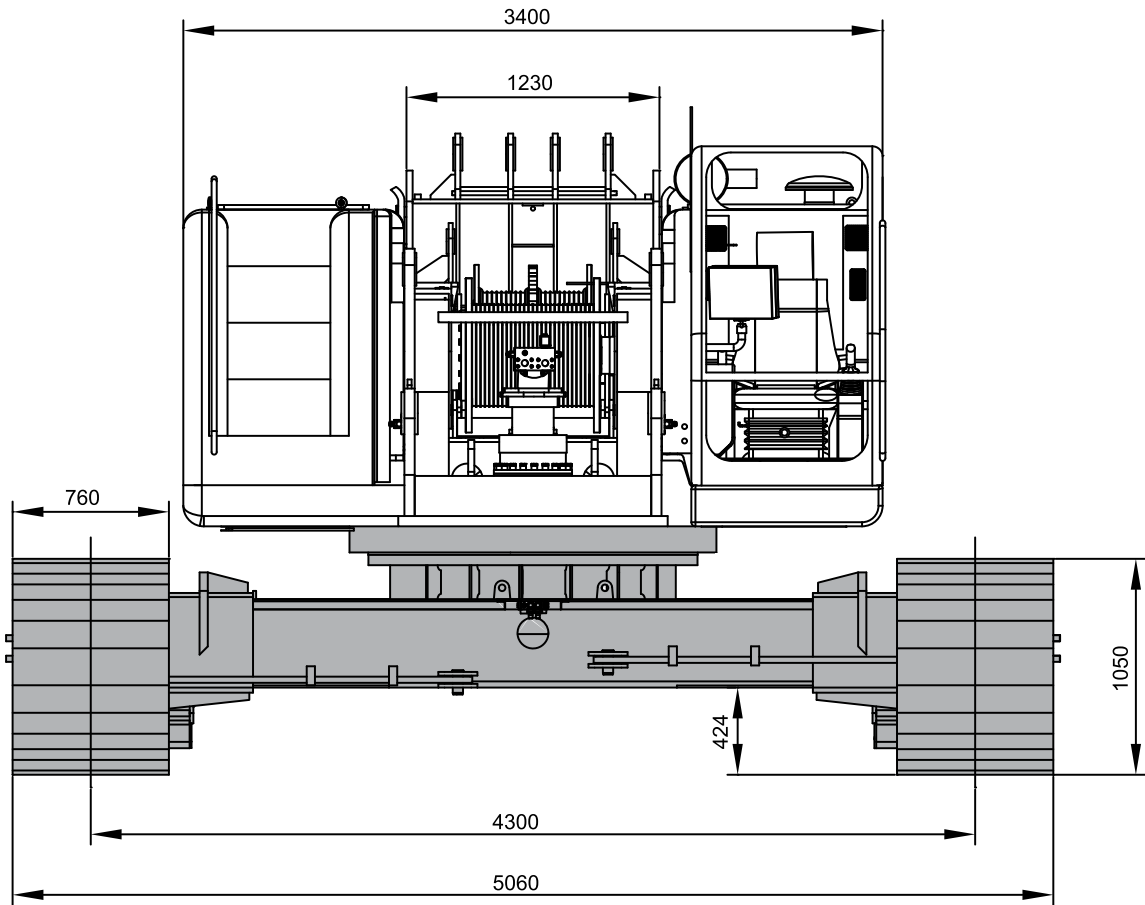
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Carrier performance with standard drive · 带标准驱动的底盘性能

Travel speed on crawlers · 行走速度	0-1.4 km/h
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Hook blocks · 吊钩

Type 类型	Possible load 可能的载荷	Number of sheaves 滑轮组数	Number of lines 绳数	Weight 重量	"D"
70	70 t	6	12	0.58 t	4.0 m
30	30 t	3	6	0.35 t	3.5 m
7	6 t	—	1	0.25 t	1.5 m





MAIN BOOM CONFIGURATIONS •
主臂的配置

POWERLIFT 2000
拓力 2000

Weights • 重量

Total weight incl. counterweight 21.6 t, 12 m H boom and hook block 总重量包括 21.6 吨的配重、12 m 的H起重臂和吊钩	66 t
Superstructure (with three drums, gantry, boom foot and boom backstops) 上车（带有三个卷扬、扳起架、主臂根和主臂防后倾）	17.9 t
Car body 车体	7.8 t
Crawlers with standard drive 履带带有标准驱动器	17.3 t
Counterweight 配重	21.6 t

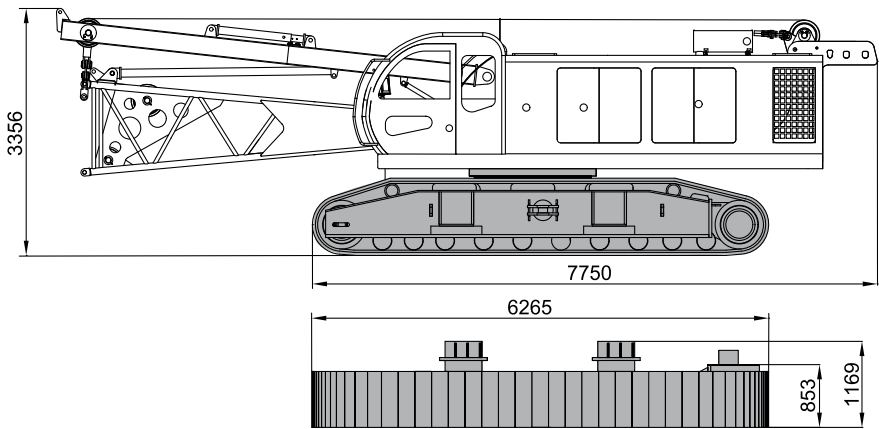
Ground pressure • 接地比压

Ground pressure, based on 66 t total weight 基于 66 吨总重时的接地比压	7.3 N/cm ²
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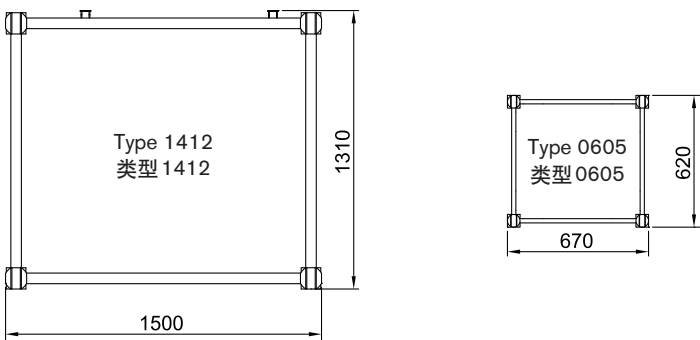
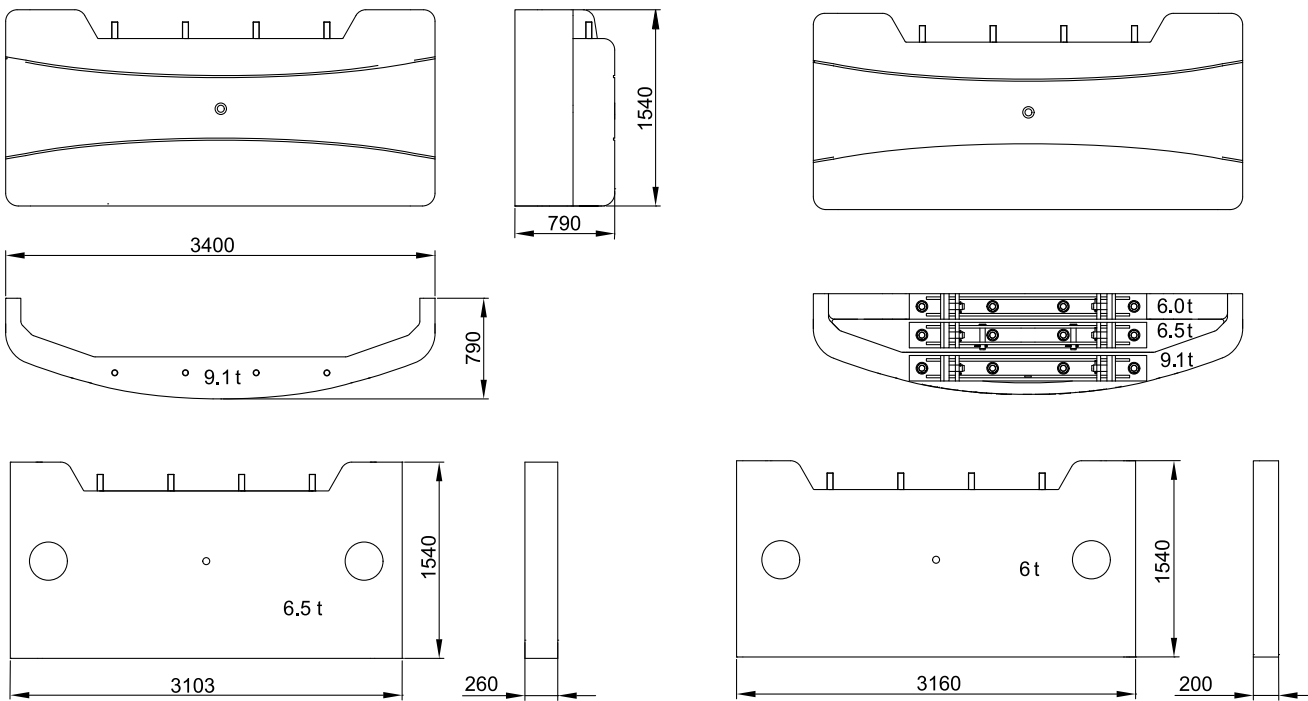


MAIN BOOM CONFIGURATIONS · 主臂的配置

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Counterweights on basic machine · 上车配重

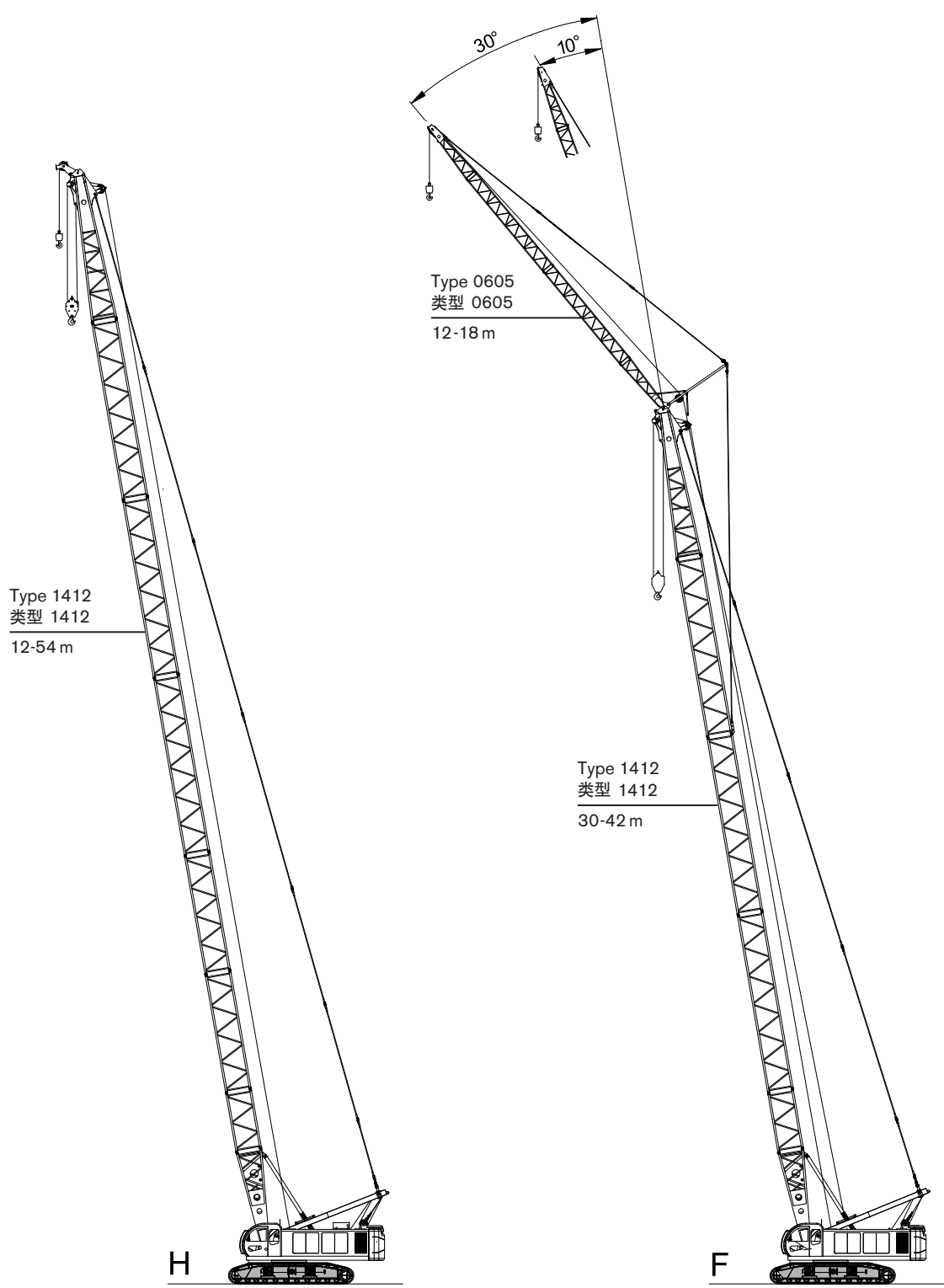




BOOM COMBINATIONS .

臂杆组合

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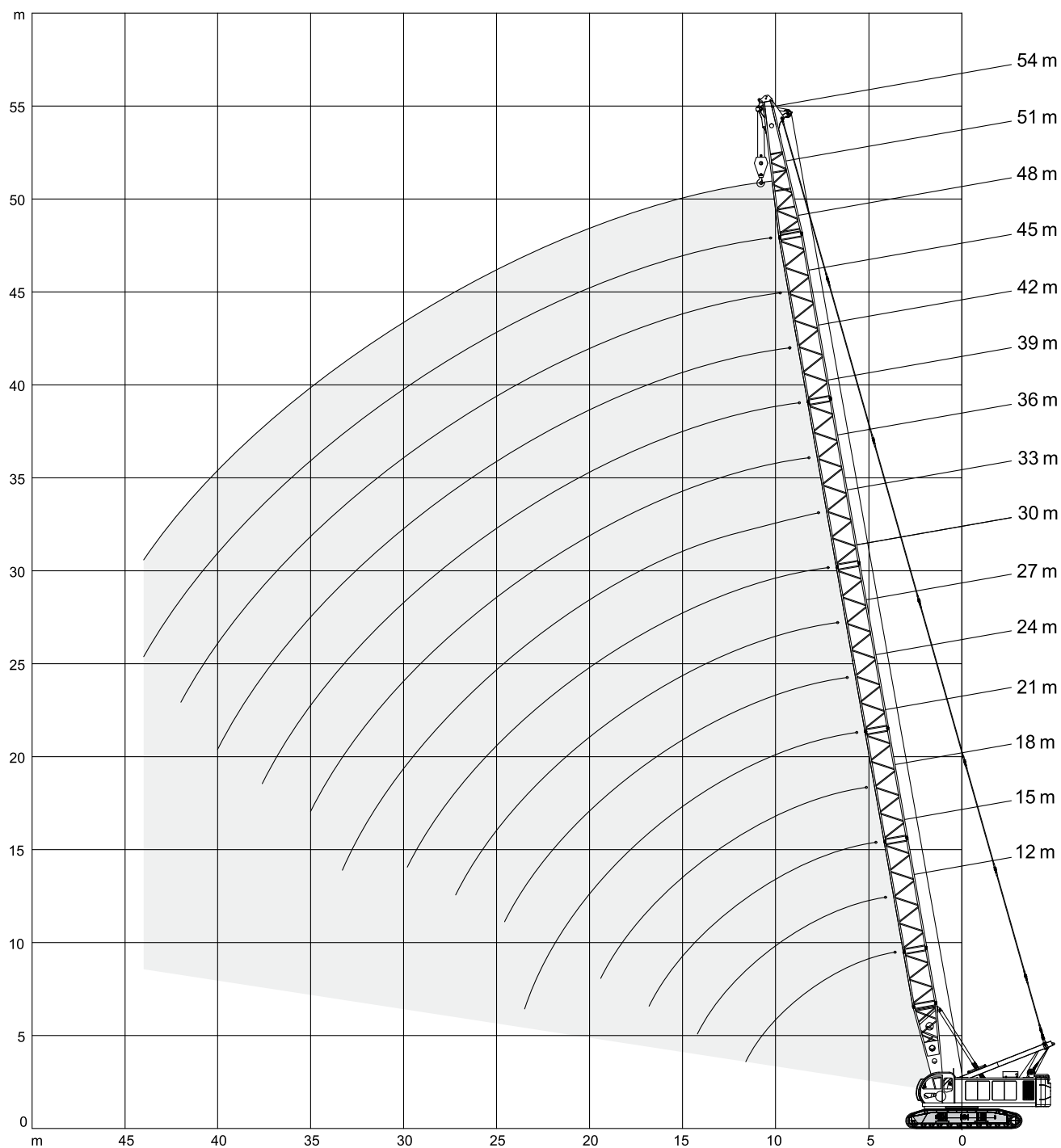




MAIN BOOM · 主臂

Working ranges · 工作范围

POWERLIFT 2000
拓力 2000





MAIN BOOM · 主臂

Lifting capacities · 起重能力

POWERLIFT 2000

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21.6 t		4.3 m		360°					GB / ISO	
		12 m	15 m	18 m	21 m	24 m	27 m	30 m	33 m	
m	t	t	t	t	t	t	t	t	t	m
3.8	70.0	-	-	-	-	-	-	-	-	3.8
4.0	65.0	65.0	-	-	-	-	-	-	-	4.0
4.5	58.0	56.5	56.2	-	-	-	-	-	-	4.5
5.0	54.4	52.5	51.0	50.0	-	-	-	-	-	5.0
5.5	47.0	45.0	43.3	42.0	42.1	-	-	-	-	5.5
6.0	42.4	40.9	39.5	38.5	38.0	36.9	-	-	-	6.0
7.0	33.8	33.5	32.5	31.5	30.6	30.1	29.5	29.0	-	7.0
8.0	27.9	27.8	27.6	26.8	26.0	25.3	25.0	24.3	-	8.0
9.0	23.7	23.6	23.5	23.2	22.6	21.9	21.4	21.0	-	9.0
10.0	20.6	20.4	20.3	20.2	19.9	19.4	18.9	18.4	-	10.0
12.0	-	16.0	15.9	15.8	15.7	15.5	15.2	14.8	-	12.0
14.0	-	13.1	13.0	12.8	12.7	12.5	12.4	12.3	-	14.0
16.0	-	-	10.9	10.7	10.6	10.5	10.4	10.2	-	16.0
18.0	-	-	-	9.1	9.0	8.9	8.8	8.7	-	18.0
20.0	-	-	-	-	7.8	7.7	7.5	7.4	-	20.0
22.0	-	-	-	-	6.8	6.7	6.6	6.4	-	22.0
24.0	-	-	-	-	-	5.9	5.7	5.6	-	24.0
26.0	-	-	-	-	-	-	5.1	5.0	-	26.0
28.0	-	-	-	-	-	-	-	4.4	-	28.0

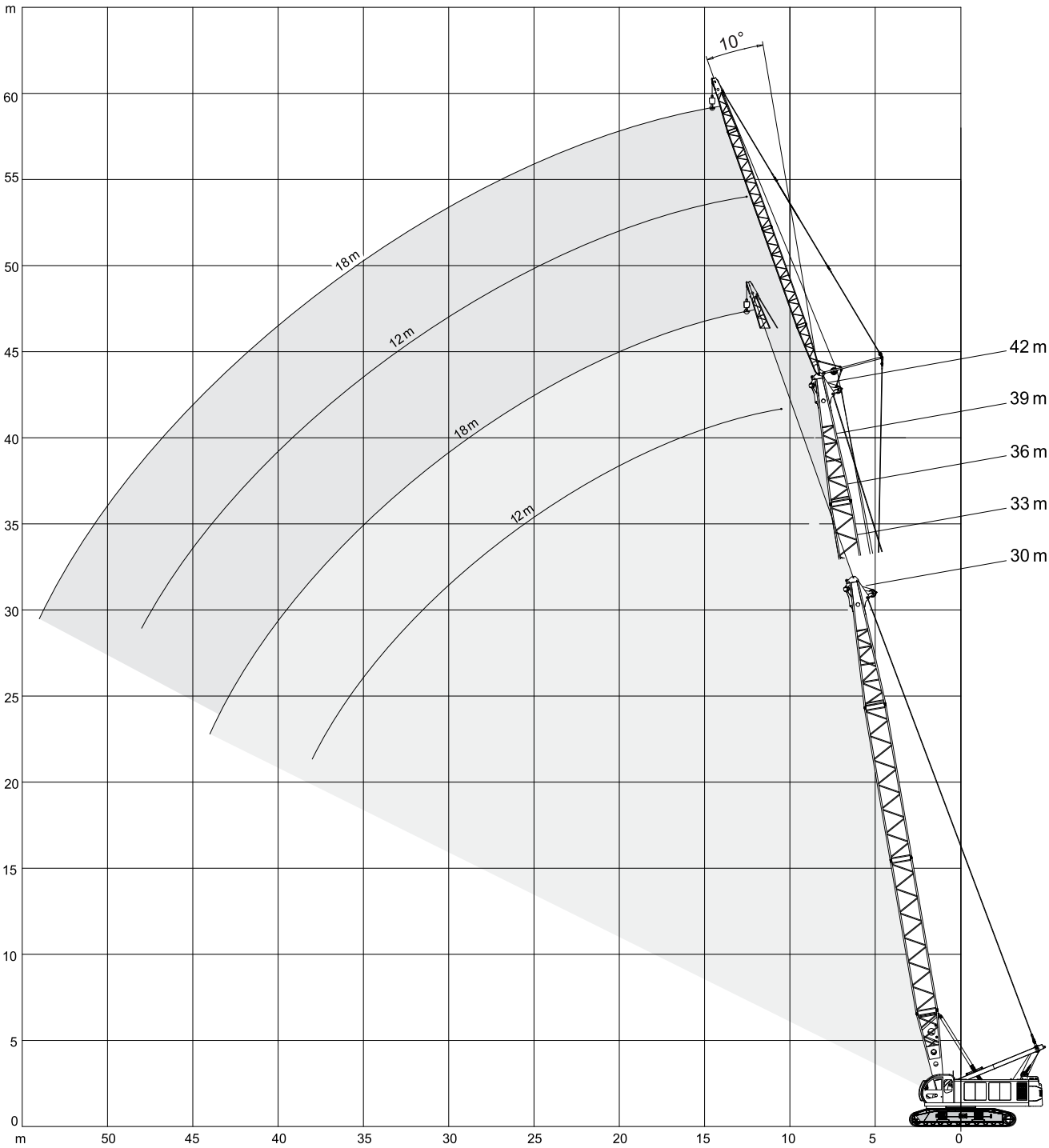
		36 m	39 m	42 m	45 m	48 m	51 m	54 m	
m	t	t	t	t	t	t	t	t	m
7.0	-	-	-	-	-	-	-	-	7.0
8.0	24.0	23.5	-	-	-	-	-	-	8.0
9.0	20.6	20.2	20.0	19.4	-	-	-	-	9.0
10.0	18.0	17.7	17.3	17.0	16.6	14.6	-	-	10.0
12.0	14.5	14.1	13.7	13.5	13.2	13.3	13.1	-	12.0
14.0	12.0	11.8	11.4	11.1	10.9	10.8	10.7	-	14.0
16.0	10.1	9.8	9.7	9.5	9.2	9.1	8.9	-	16.0
18.0	8.5	8.3	8.1	8.0	7.9	7.6	7.3	-	18.0
20.0	7.3	7.2	7.1	6.8	6.7	6.6	6.4	-	20.0
22.0	6.3	6.2	6.1	5.9	5.8	5.6	5.5	-	22.0
24.0	5.5	5.4	5.3	5.1	5.0	4.8	4.7	-	24.0
26.0	4.8	4.7	4.6	4.4	4.3	4.2	4.0	-	26.0
28.0	4.2	4.1	4.0	3.9	3.8	3.6	3.5	-	28.0
30.0	3.8	3.6	3.5	3.4	3.3	3.1	3.0	-	30.0
32.0	3.4	3.2	3.1	3.0	2.9	2.7	2.6	-	32.0
34.0	-	2.9	2.8	2.6	2.5	2.4	2.3	-	34.0
36.0	-	-	2.5	2.3	2.2	2.1	1.8	-	36.0
38.0	-	-	-	2.1	2.0	1.8	1.7	-	38.0
40.0	-	-	-	1.7	1.6	1.5	1.4	-	40.0
42.0	-	-	-	-	1.5	1.3	1.2	-	42.0
44.0	-	-	-	-	-	1.0	1.0	-	44.0



FIXED JIB · 固定副臂

Working ranges · 工作范围

POWERLIFT 2000
拓力 2000





FIXED JIB · 固定副臂

Lifting capacities · 起重能力

POWERLIFT 2000
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 21.6 t		 12 m		 4.3 m		360°		GB / ISO				
		30 m		33 m		36 m		39 m		42 m		
		10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	
		m	t	t	t	t	t	t	t	t	t	
8.0	-	-	-	-	-	-	-	-	-	-	-	8.0
10.0	-	-	-	-	-	-	-	6.0	-	-	-	10.0
12.0	5.9	-	6.0	-	6.0	-	5.9	-	-	-	-	12.0
14.0	5.7	4.8	5.8	-	5.8	-	5.7	-	5.9	-	-	14.0
16.0	5.5	4.7	5.6	4.7	5.7	4.8	5.6	4.8	5.7	4.8	-	16.0
18.0	5.4	4.6	5.4	4.6	5.5	4.7	5.4	4.7	5.6	4.7	-	18.0
20.0	5.2	4.5	5.3	4.6	5.4	4.6	5.3	4.6	5.5	4.6	-	20.0
22.0	5.1	4.4	5.2	4.6	5.2	4.5	5.2	4.5	5.4	4.6	-	22.0
24.0	5.0	4.4	5.1	4.5	5.1	4.4	5.0	4.5	4.9	4.4	-	24.0
26.0	4.8	4.3	4.7	4.4	4.6	4.4	4.4	4.4	4.3	4.1	-	26.0
28.0	4.3	4.2	4.1	4.2	4.0	4.1	3.9	4.0	3.8	3.7	-	28.0
30.0	3.8	3.8	3.6	3.7	3.5	3.6	3.4	3.5	3.3	3.2	-	30.0
32.0	3.4	3.4	3.2	3.3	3.1	3.2	3.1	3.1	3.0	2.9	-	32.0
34.0	3.1	3.1	3.0	3.0	2.8	2.9	2.7	2.8	2.6	2.6	-	34.0
36.0	2.8	2.8	2.7	2.7	2.5	2.6	2.4	2.4	2.3	2.3	-	36.0
38.0	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.0	2.0	-	38.0
40.0	-	-	2.1	2.1	2.0	2.0	1.9	1.9	1.7	1.8	-	40.0
42.0	-	-	1.8	1.8	1.8	1.8	1.6	1.6	1.5	1.5	-	42.0
44.0	-	-	-	-	1.5	1.5	1.5	1.5	1.4	1.4	-	44.0
46.0	-	-	-	-	-	-	1.3	1.3	1.2	1.2	-	46.0
48.0	-	-	-	-	-	-	-	-	1.0	1.0	-	48.0

 21.6 t		 18 m		 4.3 m		360°		GB / ISO				
		30 m		33 m		36 m		39 m		42 m		
		10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	
		m	t	t	t	t	t	t	t	t	t	
12.0	-	-	-	-	-	-	-	-	-	-	12.0	
14.0	5.1	-	5.1	-	5.2	-	5.2	-	-	-	14.0	
16.0	4.9	-	4.9	-	5.0	-	4.5	-	5.1	-	16.0	
18.0	4.7	3.9	4.8	-	4.8	-	4.5	-	4.5	-	18.0	
20.0	4.5	3.8	4.6	3.8	4.4	3.8	4.4	3.8	4.4	3.8	20.0	
22.0	4.3	3.6	4.3	3.6	4.2	3.6	4.3	3.7	4.4	3.7	22.0	
24.0	4.0	3.4	4.1	3.4	4.2	3.5	4.3	3.5	4.3	3.5	24.0	
26.0	3.8	3.3	3.9	3.3	4.2	3.4	4.2	3.4	4.3	3.4	26.0	
28.0	3.6	3.1	3.7	3.2	4.0	3.2	3.9	3.2	3.9	3.3	28.0	
30.0	3.5	3.0	3.5	3.1	3.6	3.1	3.5	3.1	3.4	3.1	30.0	
32.0	3.3	3.0	3.3	3.0	3.2	3.0	3.1	3.0	3.1	3.0	32.0	
34.0	3.1	2.8	3.1	2.9	2.9	2.9	2.8	2.9	2.7	2.9	34.0	
36.0	2.9	2.7	2.7	2.8	2.6	2.7	2.5	2.6	2.4	2.5	36.0	
38.0	2.6	2.6	2.4	2.5	2.3	2.4	2.2	2.3	2.1	2.2	38.0	
40.0	2.3	2.3	2.2	2.2	2.1	2.1	1.9	2.0	1.8	1.9	40.0	
42.0	2.1	2.1	2.0	2.0	1.8	1.9	1.7	1.8	1.6	1.7	42.0	
44.0	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.6	1.5	1.5	44.0	
46.0	-	-	-	-	1.5	1.5	1.4	1.4	1.3	1.3	46.0	
48.0	-	-	-	-	1.3	1.3	1.2	1.2	1.1	1.1	48.0	
50.0	-	-	-	-	1.1	1.1	1.1	1.1	1.0	1.0	50.0	
52.0	-	-	-	-	-	-	0.9	0.9	0.8	0.8	52.0	
54.0	-	-	-	-	-	-	-	-	0.7	0.7	54.0	



TECHNICAL DESCRIPTION

POWERLIFT 2000 拓力 2000

Crawler Carrier

	3-section carrier comprising of carbody and two crawlers. Hydraulic cylinder connections between crawlers and carbody provide for easy assembly and removal to minimise width for transportation.
Carbody	Bending- and torsion-resistant welded structure of box type construction, fabricated of structural steel.
Crawlers	Side frames: bending-resistant welded structure of structural steel. Track shoes, idler and drive sprockets are fabricated of heat treated high-strength cast steel. 10 rollers on each side frame with hardened rolling surfaces.
Power train	Inclined-shaft piston fixed displacement/variable motor is desinged; and the plug-in double way brake valve is installed face to face, and the brake relief valve is arranged, which shall automatically switch brake according to various main oil pressure, simplifying operation procedure. Built-in motor almost fully embedded inside of reducer, minimizing structure size. Hydraulic motor at each side operates driven wheel by planetary reducer to drive crawler. Each crawler can be both independently and in opposite direction.

Superstructure

Counterweight	21.6 t.
Frame	Torsion-resistant welded structure fabricated of structural steel.
Drive	WEICHAI DEUTZ WP6L240, in-line with six-cylinder engine, 176 kW (240 hp) at 2500 rpm. The engine complies with GB 3 regulation.
Rope drums	The standard superstructure equipment includes three rope drums – hoist 1, hoist 2 and boom hoist. The drums are powered by hydraulic motors through planetary gear reducer, internal-mounted normal-closed wet disc brake. LEBUS drum is adopted to ensure reeving in multiple layers. Luffing drum is designed with ratchet locking device.
Gantry	Gantry is included as standard.
Slew unit	Pinion of slewing reducer internally engaged with slewing bearing, and the pinion is driven with slewing motor by planetary gear reducer, normal-closed disc brake with buffer braking oil circuit shall enable more stable slewing brake. The designed slewing inertia valve may function accurate slewing, which may realize the function of alignment load's center of gravity.
Control system	Equipped with imported controller with color LCD for easily control and monitoring. Controller receives information from control handle and dominates action of the crane. Information about engine parameter, hydraulic system, and load moment can be showed on the display, and the screen also displays the relevant fault code when the system works in abnormal condition. CAN BUS communication system transfers the data among the electrical equipments. Designed with limit load adjustment controller which can regulate hydraulic system according to load in order to prevent engine stalling. The crane is controlled by imported hydraulic pilot joystick. All the working speeds are variable controlled by the lever position, enabling smooth and easy operating. Provided with guard switch to prevent misoperation.
Cabin	The cabin is fully closed with large windscreen and designed with front light, rear view mirror, air conditioner, heater, stereo and adjusted seat. The colorful touched display and monitor make operation more convenient.
Electrical equipment	24 V DC system (2 × storage batteries 12 V, 165 Ah).

Boom configurations

H:	Main boom: foot section 5 m Insert: 3 m, 6 m and 9 m Main boom lengths: 12-54 m.
F:	Main boom: same as H. Main boom lengths: 30-42 m Fixed jib lengths: 12 m, 18 m Fixed jib offset: 10°, 30°.
Operator aids	Load moment indicator, independent LCD monitor, boom limit switch, height limit switch, anemoscope and gradient indicator.



技术描述

POWERLIFT 2000 拓力 2000

底盘

	底盘由三部分组成，车体和两个履带。车体和履带间由液压油缸连接，以减少运输宽度。
车身	箱型结构抗弯、抗扭，由结构钢焊接制造。
履带	履带架：由抗弯结构钢焊接制成。履带板、从动轮和驱动轮均由高强度热处理铸钢制造。在每边有10 个经表面硬化处理过的支重轮。
传动系	斜轴式柱塞定量／变量马达。贴面安装插装式双向制动阀，并带有制动释放阀。制动器释放阀可以根据主油路压力自动打开制动器，简化操作步骤。内藏式马达使自身几乎全部插入减速机中，大大减小了结构尺寸。每侧的液压马达通过行星减速机带动驱动轮来驱动两侧的履带。每条履带既可独立，也可反向行走。

上车

配重	21.6 t 配重。
机台	由抗扭结构钢焊接制成。
驱动	潍柴道依茨直列六缸式发动机，型号WP6L240，功率176 kW (240 hp)，转速2500 rpm。发动机符合国3标准。
钢绳卷扬	上车设备包括三个钢绳卷扬：起升 1，起升 2 和起重臂的起升。该卷扬由液压马达通过行星减速机驱动，内藏湿式常闭盘式制动器。采用LEBUS卷筒，保证多层缠绕不乱绳。变幅卷筒带有棘轮锁定装置。
扳起架	标准车型在上车配备扳起架。
回转装置	回转减速机小齿轮与回转轴承为内啮合，小齿轮有回转马达通过行星减速机驱动，常闭盘式制动器。具有缓冲制动油路，使回转制动更平稳。带有回转惯性阀，可精确回转，可实现自动正钩的功能。
控制系统	采用进口控制器配以彩色液晶显示器控制，便于控制及监视。 控制器接受操作手柄控制信息并对吊车的动作进行控制，显示器显示发动机运行信息，液压系统信息，力矩信息以及吊车工作异常时相应的报警图标等。显示器所有电器设备之间通过CAN总线进行通讯。 设置有极限负载调节功能，根据发动机负载情况调节液压系统，防止发动机憋车。 进口液控先导手柄，所有工作速度均可以通过控制拉杆位置进行变速控制，操作平稳方便，具有保安开关，可以避免碰撞引起的误操作。
驾驶室	全封闭式驾驶室，冷暖风空调、立体声音响、全方位调整的座椅使操作更舒适，大面积玻璃窗、前照灯、后视镜，使视野更开阔。彩色液晶显示屏、监视器使监控更加方便安全。
电气设备	24 V d.c. 系统（2 个蓄电池，12 V, 165 Ah）。

臂杆组合

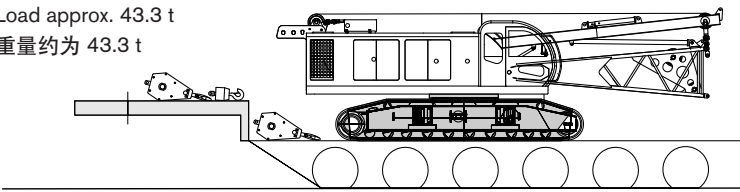
H:	主臂： 标准节： 主臂长度：	根部 5 m 3 m, 6 m 和 9 m 12-54 m。
F:	主臂： 主臂长度： 副臂长度： 副臂偏移：	与 H 相同。 30-42 m 12 m, 18 m 10°, 30°。
操作员辅助设备	力矩限制器、独立彩色监视器、臂架角度及吊钩高度限制开关，风速计和水平仪。	



TRANSPORT EXAMPLE • 运输实例

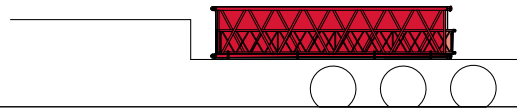
POWERLIFT 2000
拓力 2000

Load approx. 43.3 t
重量约为 43.3 t

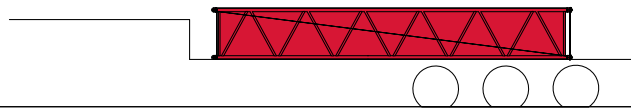


- Counterweight · 配重
- Basic machine · 主机
- Boom combination · 臂杆
- Boom combination · 臂杆
- Low loader · 低架拖车

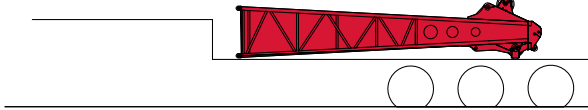
Load 1.5 t
重量 1.5 t



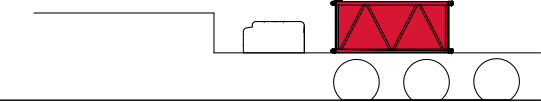
Load 2.5 t
重量 2.5 t



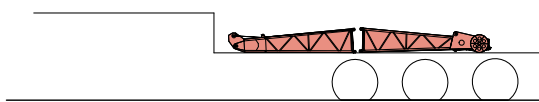
Load 2.0 t
重量 2.0 t



Load 21.9 t
重量 21.9 t



Load 0.3 t
重量 0.3 t





NOTES TO LIFTING CAPACITY · 起重能力注释

POWERLIFT 2000
拓力 2000

Ratings are in compliance with ISO 4305 and GB3811 (test load = 1.25 × suspended load).
Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.
Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes.
Crane operation is subject to the computer charts and operation manual both supplied with the crane.

额定起重能力符合 ISO 4305 和 GB3811 (测试载荷 = 1.25 × 悬挂载荷)。
吊钩和吊具的重量是载荷的一部分，应从额定起重能力中扣除。
具体细节请参阅操作手册。

备注：在此所印数据仅供参考，不完全适用实际吊装操作。
实际起重机操作应根据与起重机车辆同时提供的起重机载荷表及操作手册进行。

NOTES · 说明

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POWERLIFT 2000 拓力 2000

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