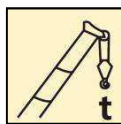
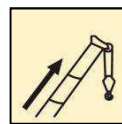


XCT80_Y 汽车起重机 / Truck Crane

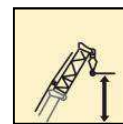
技术规格书 Technical Specifications



80t



45.5 m



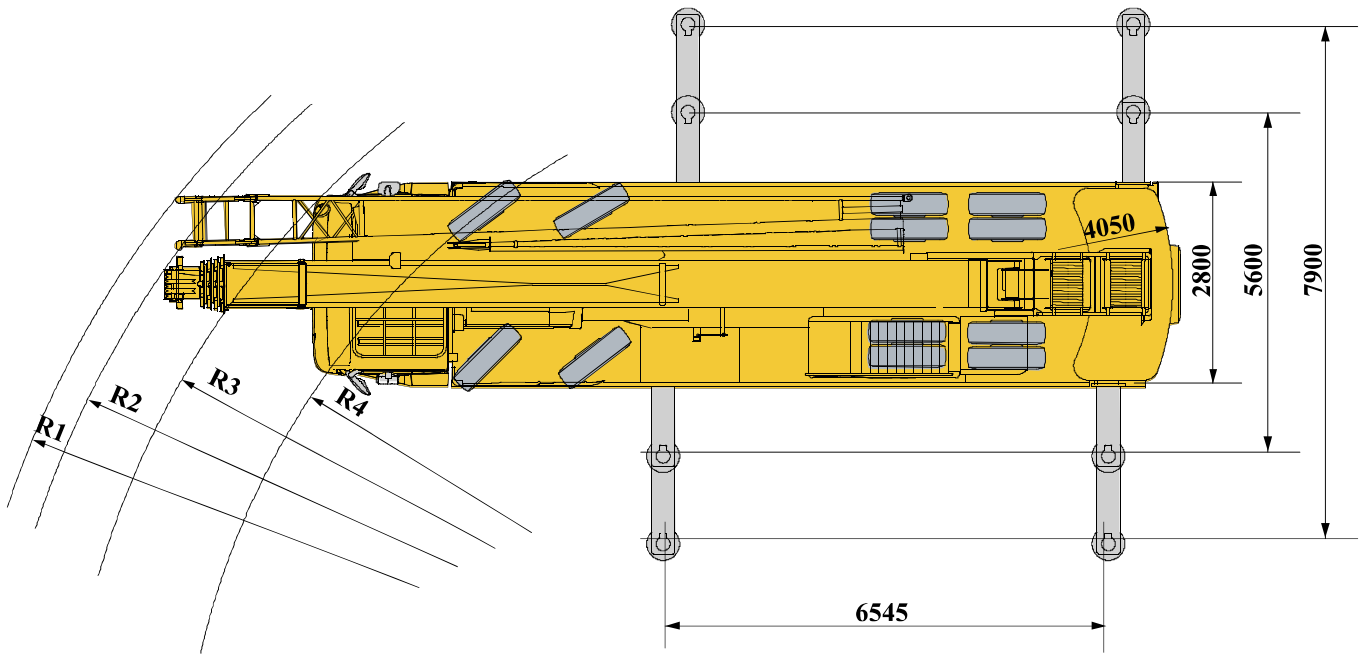
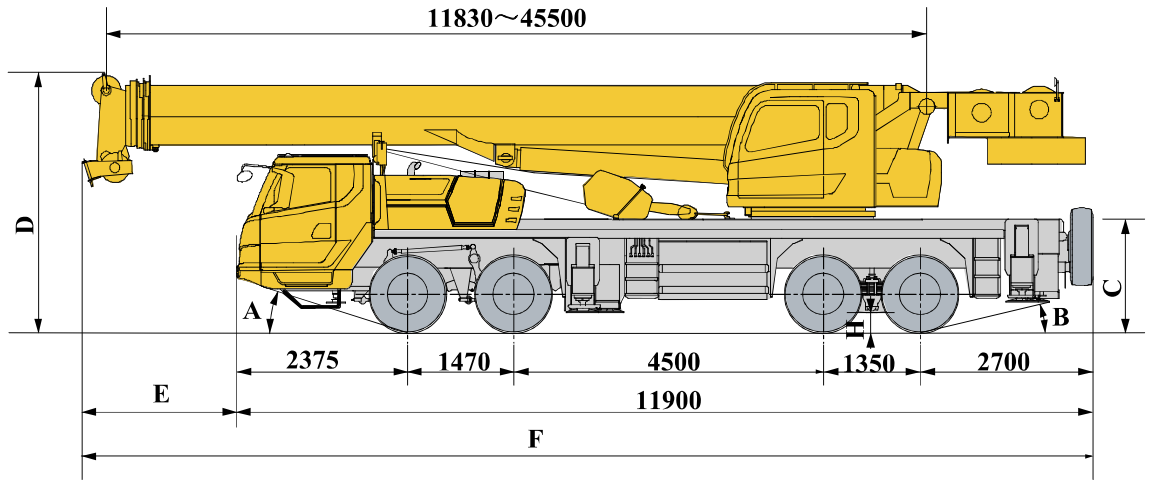
60.9 m




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尺寸参数 (右驾 Right-hand drive) Dimensions



|  | A | B | C | D | E | F | R1 | R2 | R3 | R4 | H |
|---|-----|-----|------|------|------|-------|-------|-------|-------|-------|-----|
| 12.00R24 | 22° | 13° | 1725 | 3770 | 1690 | 14085 | 14500 | 14100 | 13500 | 12000 | 305 |


技术规格

Technical specifications

|  Chassis | Configuration | Configuration |
|---|---|---------------|
| Frame | Designed and manufactured by XCMG, it is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure. | ● |
| Outriggers | Four outrigger arranged, with 5th jack is available. Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beam is adopted. There is an outrigger control station located at each side of the chassis, and there is a level gauge on each control station. The outrigger movements can be simultaneously or separately controlled at any side of the chassis. With 5th jack is available. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder. Outrigger float diameter: φ450 mm Reaction force of outrigger at max. lifting load: 700kN | ● |
| Engine | Dongfeng Cummins, In line, water cooled, four-stroke, supercharging, high pressure common rail QSL8.9-C360-30, with rated power of 265kW/2100rpm and max. torque of 1500Nm/1400-1600rpm, compliant to China III emission standard. Fuel tank capacity: 300L. CHINA NATIONAL HEAVY DUTY TRUCK GROUP, In line, water cooled, four-stroke, supercharging, high pressure common rail WD615.334, with rated power of 247 kW/2200 rpm and max. torque of 1350 Nm/1100-1600 rpm, compliant to China III emission standard. Fuel tank capacity: 300L. | ● |
| Transmission | Mechanical transmission 10JSD140TB, made by Shaanxi Fast Gear Co., Ltd., manual flexible shaft control, 10-forward speed and 2-reverse speed with a synchronizer. | ● |
| Axles | High strength axle, better reliability | ● |
| Suspensions | Rubber spring suspensions with V-type push rods are adopted for rear suspension system, leading to improved chassis stability and reduced tire wear. | ● |
| Tires | 12.00R24, low noise during traveling and strong bearing capacity . | ● |
| Braking | Service braking: foot pedal operated double-circuit air pressure brake. 1st circuit acts on the wheels of 1st and 2nd axles, and 2nd circuit acts on the wheels of 3rd and 4th axles. Parking brake: spring-loaded brake, acting on wheels of axles 2,3 and 4; Auxiliary brake: engine exhaust brake, which is safe and reliable, and will prolong the service life of brake lining. | ● |
| Steering | Mechanically steering mechanism with a hydraulic booster. | ● |
| Driver's cab | Luxurious driver's cab. Safety glass, electrically operated door window lifters, adjustable seats, electrical adjustable mirrors, steering wheel adjustable in height and angle, liquid crystal display and radio-cassette player are equipped. Heater and air conditioner are standard. | ● |
| Electrical system | 24V DC, two sets of 12 V battery in series. Generator: 28 ± 0.3 V-70 A | ● |
| Safety devices | Double-way hydraulic valve | ● |
| | Beacon lamp | ○ |
| | Backup camera | ○ |
| | ABS | ○ |


技术规格

Technical specifications

|  Superstructure | Configuration | Operator's cab | |
|--|--|-------------------------------|--|
| Frame | Designed and manufactured by XCMG, made of high strength steel. | | |
| Hydraulic system | Variable pump driven by chassis engine, used for hoisting, elevating and telescoping operations. Load sensing proportional multi-way change valve with impact resistance valve and cavitation-proof valve integrated; air-cooled hydraulic oil radiator. Tank capacity: 972L | | ● |
| Operating mode | Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by hydraulic pump and proportional valve through two control levers at left and right sides. | | |
| | Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by hydraulic pump and proportional valve through two control levers at left and right sides. | | ● |
| Main winch system | Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balance valve and a grooved drum equipped. | | ● |
| Auxiliary winch system | Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balance valve and a grooved drum equipped. | | ● |
| Slewing system | Four-point contact-ball slewing ring is driven by the planetary gear reducer of slewing mechanism, which is driven by a hydraulic motor, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available. There is a horn switch fitted on the slewing control lever. | | ● |
| Elevating system | A front support double-acting hydraulic cylinder is equipped for elevating operation, with a balance valve fitted. | | ● |
| | | Combined counterweight | Total weight is 5.3t. Two counterweight configurations of 5.3t and 2.2t are available. |
| | | Safety devices | Hydraulic balance valve, hydraulic relief valve, LMI, spring centering system for control levers, lowering limiter for preventing wire rope from over-releasing, and anti-two block at boom head for preventing wire rope from over-winding. Free sliding, slewing locking. Winch monitoring device Tri colored light bar Beacon lamp for slewing |
| | | Hook block | 80t hook block 4.5t hook block 35t hook block |

技术规格

Technical specifications

|  Boom and jib system | Configuration |
|--|---------------|
| Boom Comprised of one basic boom and four telescoping boom sections, with U-shaped cross-section, welded structure and adopts anti-distortion design and is made of high strength structural steel. Single-cylinder plus ropes telescoping system Boom length: 11.83m~45.5m | ● |
| Swing-away jib Two-section lattice jib, welded structure. Three offset angles of 0°, 15° and 30°. Fixed jib length: 9.5m~16m. | ● |
| Single top Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 4.5t. | ● |

Product parts list is as mentioned above. Please refer to the product quotation for specific parts.

Symbol explanation:

- —it means the standard configuration;
- —it means the optional configuration.

重量 Weight





| 车桥 Axle | 1 | 2 | 3 | 4 | 总重量 Total weight |
|------------|----|----|----|----|---------------------|
| t | 10 | 10 | 13 | 13 | 46 |








| 吊钩 Hook | 倍率 Parts of lines | 吊钩重量 Weight (kg) | 吊钩尺寸 Dimensions (mm) | 备注 Remarks |
|------------|----------------------|--------------------------|-------------------------|------------------------------|
| 80t | 13 | 616 | 1325×544×537 | 单钩 Single hook , 标配 Standard |
| 35t | 10 | 403 | 1334×544×419 | 单钩 Single hook , 选装 optional |
| 4.5t | 1 | 100(侧置副臂 Swing-away jib) | 536×298×298 | 单钩 Single hook , 标配 Standard |

作业速度 Working speeds



| | | |
|---|---|---|
|  |  |  |
| 12.00R24 | 2 ~ 50 | 40% |



| 作业机构 Drive | 作业速度 Working speed | 最大单绳拉力 Max. single line pull | 钢丝绳直径/长度 Rope diameter/ length |
|---|---|---------------------------------|-----------------------------------|
|  | 0-145 m/min, 单绳, 第四层 m/min, single line, 4th layer | 6.5t | 20 mm/230m |
|  | 0-90 m/min, 单绳, 第四层 m/min, single line, 4th layer | 6.5t | 20mm/145m |
|  | 0-2r/min | | |
|  | 从-1°抬起至81°约55s Approx. 55s for boom elevation from -1° to 81° | | |
|  | 从11.83m伸出至45.5m约110s Approx. 110s for boom extension from 11.4m to 43.5m | | |

臂架组合方案

Boom / Jib combinations



主臂
Telescopic boom

T : 11.83~45.5m

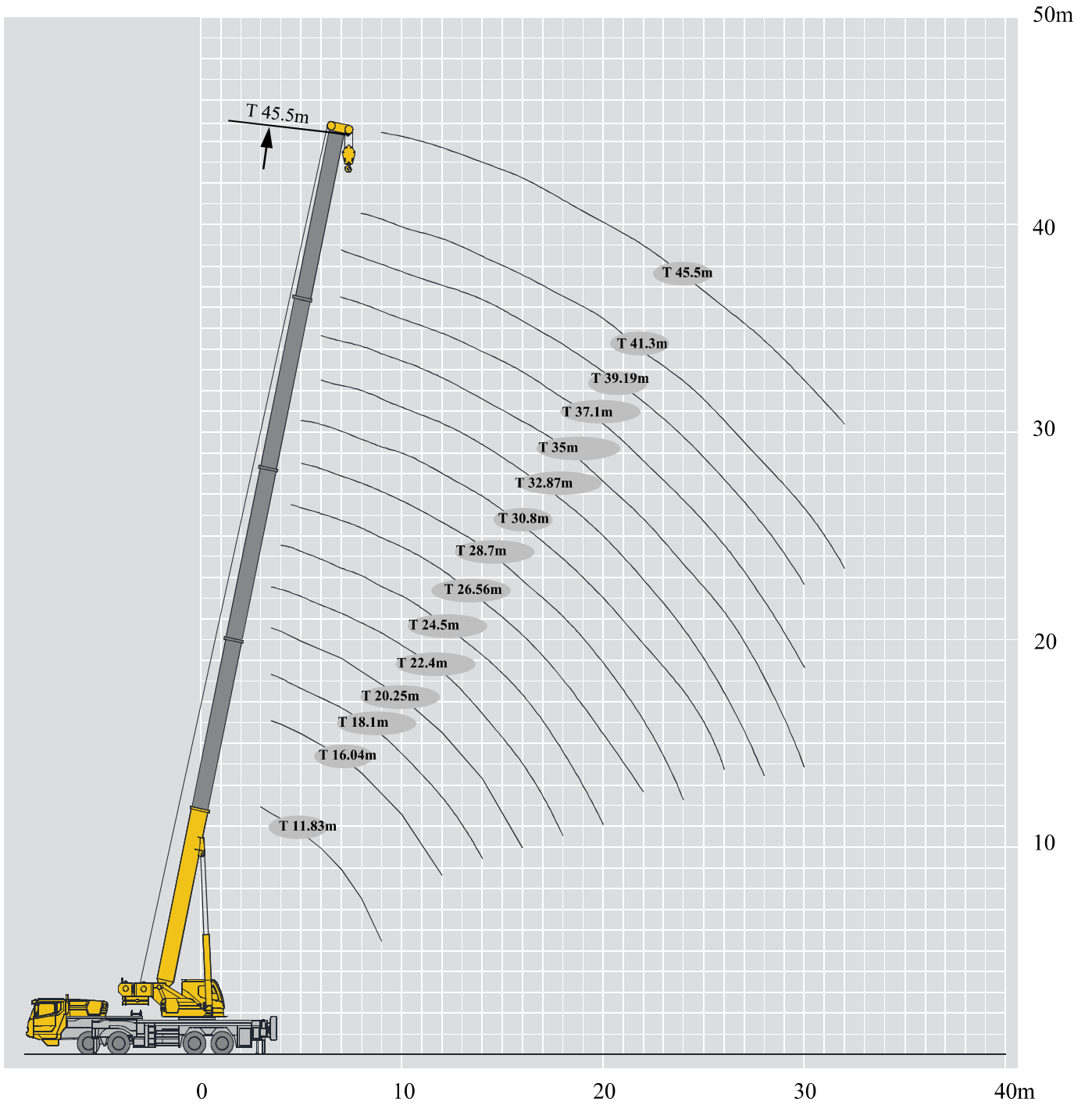


副臂
Jib

T : 45.5m
J : 9.5m/16m

起升高度曲线图 Lifting heights


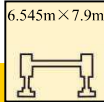

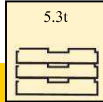
主臂
Boom



起重性能表

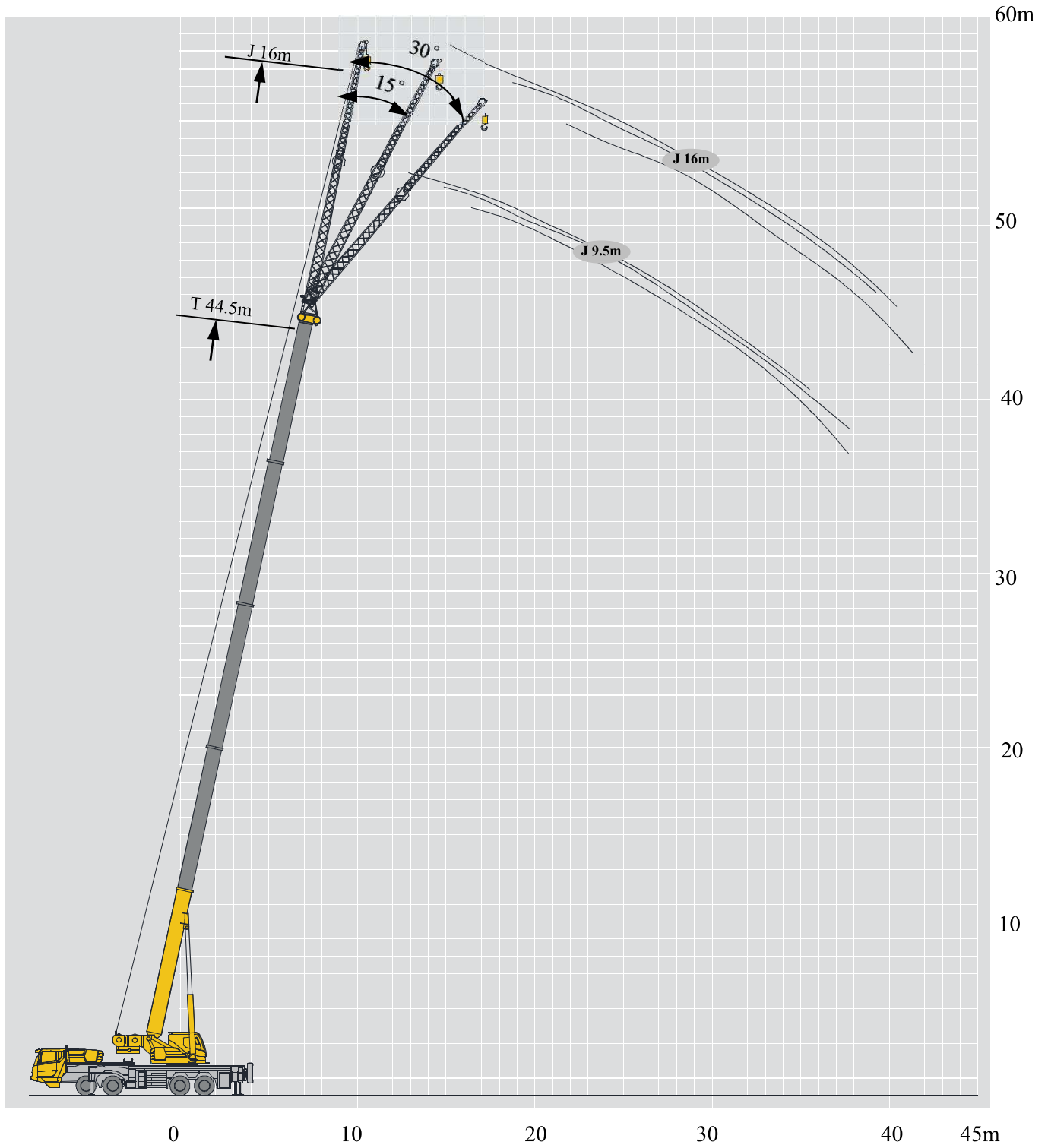
Lifting capacities

T 11.6~44.5m

| m |     | | | | | | | | | | | | | | | | m |
|-----|---|-------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-----|---|
| | 11.83 | 16.04 | 18.1 | 20.25 | 22.4 | 24.5 | 26.56 | 28.7 | 30.8 | 32.87 | 35 | 37.1 | 39.19 | 41.3 | 45.5 | | |
| 3 | 80 | | | | | | | | | | | | | | | 3 | |
| 3.5 | 75 | 55 | | | | | | | | | | | | | | 3.5 | |
| 4 | 65 | 55 | | | | | | | | | | | | | | 4 | |
| 5 | 52 | 50 | 31 | 40 | 30 | 29.5 | | | | | | | | | | 5 | |
| 6 | 44 | 42 | 31 | 36 | 30 | 27.2 | 30 | 29.2 | 19.9 | 22.5 | | | | | | 6 | |
| 7 | 36.5 | 35 | 30.5 | 32.5 | 30 | 25.1 | 28 | 28.3 | 18.5 | 21.4 | 18.4 | 14.0 | 15.5 | | | 7 | |
| 8 | 27.5 | 27.2 | 28.8 | 26.9 | 29 | 23.6 | 25.5 | 26.5 | 17.2 | 19.8 | 17.4 | 13.6 | 15.3 | 11.6 | 9.8 | 8 | |
| 9 | 21.7 | 21.4 | 23.7 | 21.1 | 23 | 22.4 | 22.6 | 24 | 16.2 | 18.4 | 16.4 | 12.9 | 14.5 | 11.6 | 9.6 | 9 | |
| 10 | | 17.4 | 19.5 | 17.1 | 18.9 | 20.3 | 18.4 | 19.7 | 15.2 | 17.1 | 15.6 | 12.0 | 13.6 | 11.5 | 9.6 | 10 | |
| 12 | | 12.1 | 14.1 | 11.8 | 13.5 | 14.8 | 13.1 | 14.2 | 13.5 | 13.8 | 14.0 | 10.8 | 12.2 | 10.7 | 9.6 | 12 | |
| 14 | | | 10.6 | 8.6 | 10.1 | 11.3 | 9.7 | 10.8 | 11.8 | 10.4 | 11.3 | 9.6 | 10.9 | 9.8 | 8.9 | 14 | |
| 16 | | | | 6.2 | 7.8 | 9 | 7.4 | 8.5 | 9.4 | 8.1 | 8.9 | 8.5 | 8.5 | 8.6 | 8.2 | 16 | |
| 18 | | | | | 6.1 | 7.3 | 5.7 | 6.7 | 7.6 | 6.4 | 7.2 | 7.6 | 6.8 | 7.5 | 7 | 18 | |
| 20 | | | | | | 5.9 | 4.4 | 5.4 | 6.3 | 5 | 5.8 | 6.5 | 5.5 | 6.1 | 5.8 | 20 | |
| 22 | | | | | | | 3.4 | 4.4 | 5.2 | 4 | 4.8 | 5.5 | 4.4 | 5.1 | 4.7 | 22 | |
| 24 | | | | | | | | 3.6 | 4.4 | 3.2 | 4 | 4.6 | 3.6 | 4.2 | 3.9 | 24 | |
| 26 | | | | | | | | | 3.7 | 2.5 | 3.3 | 3.9 | 2.9 | 3.5 | 3.2 | 26 | |
| 28 | | | | | | | | | | 1.9 | 2.7 | 3.3 | 2.3 | 3 | 2.6 | 28 | |
| 30 | | | | | | | | | | | 2.2 | 2.8 | 1.9 | 2.5 | 2.1 | 30 | |
| 32 | | | | | | | | | | | | 2.4 | 1.5 | 2 | 1.7 | 32 | |
| 34 | | | | | | | | | | | | | | 1.7 | 1.4 | 34 | |

起升高度曲线图 Lifting heights

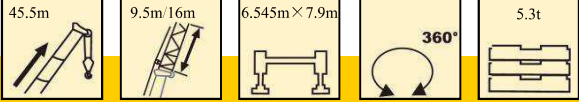
副臂
Jib



起重性能表

Lifting capacities

T 44.5m



| | 9.2m | | | 16m | | | |
|-----|------|-----|-----|-----|-----|-----|-----|
| | 0° | 15° | 30° | 0° | 15° | 30° | |
| 80° | 4.5 | 4 | 3.2 | 2.9 | 2.4 | 1.3 | 80° |
| 78° | 4.2 | 3.8 | 3.2 | 2.9 | 2 | 1.1 | 78° |
| 75° | 4 | 3.7 | 3 | 2.8 | 1.6 | 1 | 75° |
| 72° | 3.8 | 3.5 | 2.7 | 2.5 | 1.4 | 0.9 | 72° |
| 70° | 3.6 | 3.2 | 2.6 | 2.2 | 1.2 | 0.9 | 70° |
| 65° | 2.6 | 2.4 | 2.2 | 1.6 | 1 | 0.9 | 65° |
| 60° | 1.7 | 1.6 | 1.5 | 1.2 | 0.9 | 0.8 | 60° |
| 55° | 1.2 | 1.1 | 1 | 0.9 | 0.8 | 0.7 | 55° |
| 50° | 0.7 | 0.7 | 0.7 | | | | 50° |

注意事项

Notes

1. 表中额定总起重量值，是在平整的坚固地面上本起重机能够保证的最大总起重量，包括吊钩和吊具的重量，所以为了估算重物重量，必须减去上述的装置重量。
2. 表中的工作幅度为起吊重物离地时起重物到起重机回转轴线的水平距离，是包括起重臂变形量在内的实际值，因而起吊前应考虑起重臂变形量。
3. 只允许在5级(瞬时风速14.1m/s，风压125N/m²)风以下进行作业。
4. 吊重前操作者必须对物体的重量和工作范围了解后选择合适的作业工况，严禁超出表中的数值。幅度及臂长在相邻两个数值之间时，应依据两个数值中较小值确定起重作业。
5. 应按主臂仰角范围作业，即使是空载，也不应使主臂仰角处于范围外，谨防整机倾翻。
6. 表中的主臂长度应要按照每节臂的伸缩要求进行伸出。

1. The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground, which includes the weight of the hook block and slings. The weight of above-mentioned devices should be deducted to correctly calculate the load weight.
2. The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection.
3. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m²).
4. Before beginning lifting operation, the operator should know the weight of the load to be lifted and its working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
5. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.
6. The boom length given in the rated load charts should accord with the telescoping code of boom sections .

符号标识

Description of symbols

常规标识

General symbols

| | | | |
|---|--|---|---------------------------------------|
|  | 上车 Superstructure |  | 底盘 Chassis |
|  | 起重能力 Lifting capacity |  | 车桥 Axle |
|  | 吊臂长度 Boom length |  | 行驶速度 Driving speed |
|  | 工作幅度 Radius |  | 爬坡能力 Grade ability |
|  | 吊臂仰角 Boom angle |  | 轮胎 Tires |
|  | 主臂起升高度 Hoist height with boom |  | 支腿 Outriggers |
|  | 固定副臂长度 Fixed jib length |  | 吊钩 Hook block |
|  | 副臂安装角 Jib offset angle |  | 平衡重 Counterweight |
|  | 副臂起升高度 Hoist height with jib |  | 卷扬 Winch |
|  | 使用第五支腿360°全回转 360° operation of the boom with 5th jack down |  | 360°全回转 360° operation of the boom |

主要技术参数表

Table of main technical parameters

| 类别 Category | 项目 Item | 单位 Unit | 参数 Parameter | | |
|--------------------|---|-------------|--|----------------|--|
| 尺寸参数 Dimensions | 外形尺寸 (长×宽×高) Dimensions (length×width×height) | mm | 14085×2800×3770 | | |
| | 轴距 Wheel base | mm | 1470+4500+1350 | | |
| | 轮距 (前/后) Track (Front/ Rear) | mm | 2316/2063 | | |
| | 前悬/后悬 Front/ Rear overhang | mm | 2375/2700 | | |
| | 前伸/后伸 Front/ Rear extension | mm | 1690/0 | | |
| 重量参数 Weight | 最大允许总质量 Total vehicle mass in travel configuration | kg | 46000 | | |
| | 轴荷 Axle load | 一轴 1st axle | kg | 10000 | |
| | | 二轴 2nd axle | kg | 10000 | |
| | | 三轴 3rd axle | kg | 13000 | |
| | | 四轴 4rd axle | kg | 13000 | |
| 动力参数 Power | 发动机型号 Engine model | — | QSL8.9-C360 | WD615.334 | |
| | 额定功率/转速 Rated power/rpm | kW/(r/min) | 265/2100 | 247/2200 | |
| | 最大净功率/转速 Max. net power/rpm | kW/(r/min) | 250/2100 | 245/2200 | |
| | 最大输出扭矩/转速 Max. output torque/rpm | N.m/(r/min) | 1500/1400-1600 | 1350/1100-1600 | |
| 行驶参数 Travel | 最高车速 Max. travel speed | km/h | 50 (康明斯配置) / 90 (杭发配置) | | |
| | 最低稳定车速 Min. stable travel speed | km/h | 2~3 | | |
| | 最小转弯直径 Min. turning diameter | m | ≤24 | | |
| | 臂头最小转弯直径 Min. turning diameter at boom tip | m | ≤30.2 (侧置副臂 Swing-away jib) ≤30.24 (腹置副臂 Under slung jib) | | |
| | 最小离地间隙 Min. ground clearance | mm | 305 | | |
| | 接近角 Approach angle | ° | 22 | | |
| | 离去角 Departure angle | ° | 13 | | |
| | 制动距离 (制动初速度为30km/h) Braking distance (at 30 km/h) | m | ≤10 | | |
| | 最大爬坡能力 Max. grade ability | % | ≥40 | | |
| | 百公里油耗 Fuel consumption per 100 km | L | 38 | | |
| 噪音 Noise | 加速行驶机外噪声 Exterior noise level | dB(A) | ≤84 | | |
| | 驾驶员耳旁噪声 Noise level at seated position | dB(A) | ≤90 | | |

主要技术参数表

Table of main technical parameters

| 类别 Category | 项目 Item | | 单位 Unit | 参数 Parameter | |
|--------------------------------------|--|--------------------------------------|--------------|-----------------|-----|
| 主要性能参数 Main performance | 最大额定总起重量 Max. total rated lifting capacity | | t | 80 | |
| | 最小额定工作幅度 Min. rated working radius | | m | 3 | |
| | 转台尾部回转半径 Turning radius at turntable tail | 平衡重处 Counterweight | mm | 4050 | |
| | | 卷扬处 winch | mm | 4190 | |
| | 最大起重力矩 Max. load moment | 基本臂 Base boom | kN.m | 2587 | |
| | | 最长主臂 Fully-extended boom | kN.m | 1286 | |
| | | 最长主臂+副臂 Fully-extended boom + Jib | kN.m | 706 | |
| | 支腿跨距 Outrigger span | 纵向 Longitudinal | m | 6.545 | |
| | | 横向 Lateral | m | 7.9 | |
| | 起升高度 Hoist height | 基本臂 Base boom | m | 12.2 | |
| | | 最长主臂 Fully-extended boom | m | 46 | |
| | | 最长主臂+副臂 Fully-extended boom + Jib | m | 60.9 | |
| | 起重臂长度 Boom length | 基本臂 Base boom | m | 11.83 | |
| 最长主臂 Fully-extended boom | | m | 45.5 | | |
| 最长主臂+副臂 Fully-extended boom + Jib | | m | 61.5 | | |
| 副臂安装角 Jib offset angle | | ° | 0, 15, 30 | | |
| 工作速度参数 Working speed | 起重臂起臂时间 Boom raising time | | s | ≤55 | |
| | 起重臂全伸时间 Boom fully extending time | | s | ≤110 | |
| | 最大回转速度 Max. slewing speed | | r/min | ≥2 | |
| | 支腿收放时间 Outrigger extending and retracting time | 水平支腿 Outrigger beam | 收 Retracting | s | ≤30 |
| | | | 放 Extending | s | ≤30 |
| | | 垂直支腿 Outrigger jack | 收 Retracting | s | ≤30 |
| | | | 放 Extending | s | ≤40 |
| | 起升速度 (单绳,第四层,空载) Hoisting speed (single line, 4th layer, no load) | 主起升机构 Main winch | m/min | ≥145 | |
| 副起升机构 Auxiliary winch | | m/min | ≥90 | | |
| 噪声 Noise | 机外辐射 Exterior noise level | | dB (A) | ≤122 | |
| | 司机位置处 Noise level at seated position | | dB (A) | ≤90 | |



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