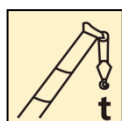


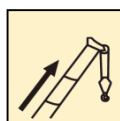
XCT25L5_SR汽车起重机 / Truck Crane

技术规格书

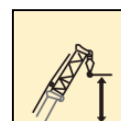
Basic technical specification



25 t



41 m



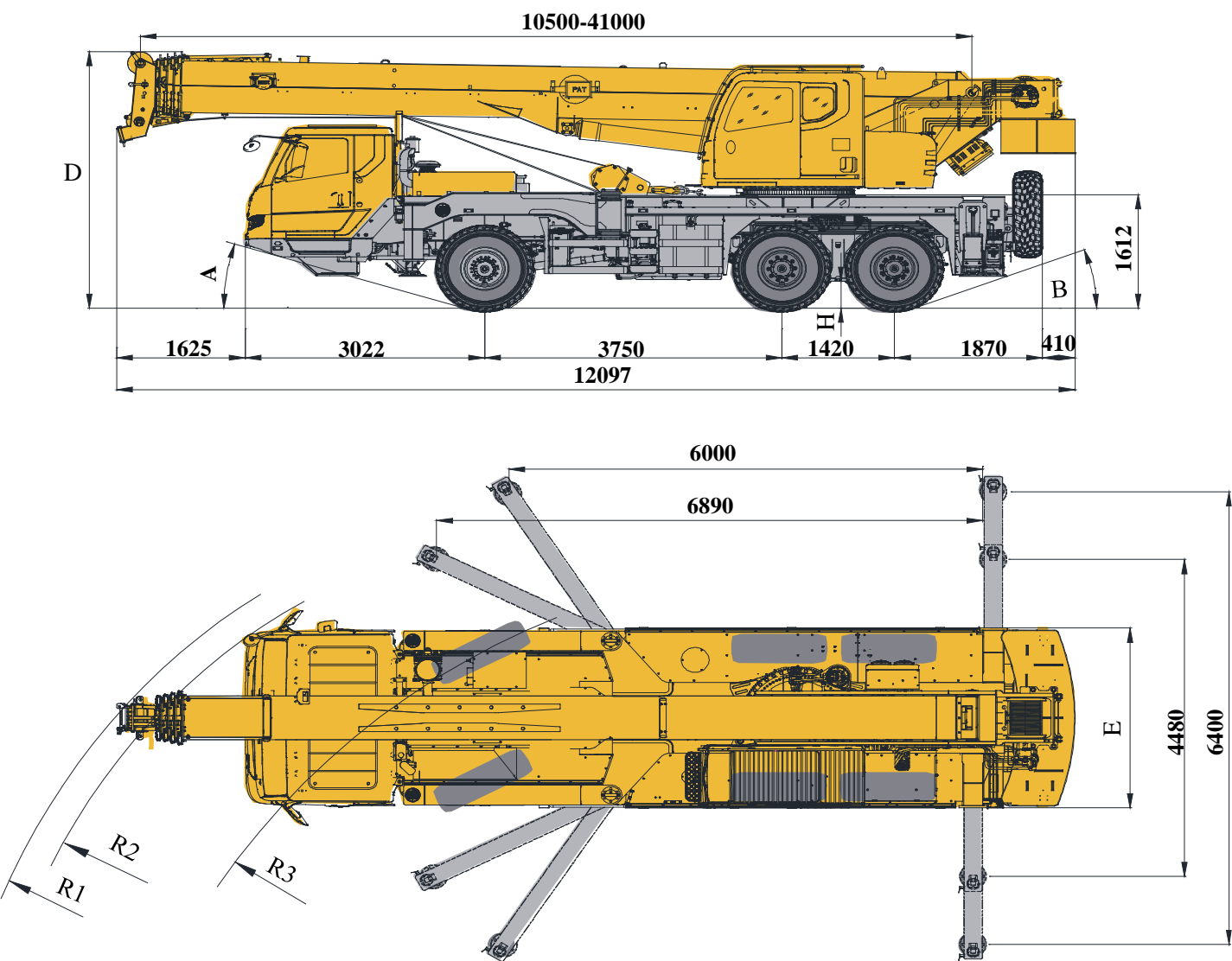
48.3 m



目录
Content

| 目录 Content | |
|-----------------------------------|-------|
| 尺寸参数 Dimensions | 4-5 |
| 技术规格 Product Specifications | 6-9 |
| 重量 Weight | 10 |
| 作业速度 Working speeds | 11 |
| 臂架组合方案 Boom / Jib combinations | 12 |
| 主臂 Boom | 13-15 |
| 副臂 Jib | 16-17 |
| 注意事项 Notes | 18 |
| 符号标识 Description of symbols | 19 |
| 主要技术参数表 Transportation plan | 20-21 |


尺寸参数
Dimensions



| | A | B | D | E | R1 | R2 | R3 | H |
|-------------|-----|-----|------|------|-------|-------|-------|-----|
| 315/80R22.5 | 18° | 21° | 3650 | 2550 | 12800 | 12400 | 11000 | 351 |

技术规格


Technical specifications


| | | |
|--|---|---|
|  | Chassis | |
| Frame | Designed and manufactured by XCMG, with all covered walking surface, anti-torsion box structure and optimal load-bearing structure design, made of imported high strength steel. | ● |
| Outriggers | 4 outriggers, K-shaped arrangement, lateral and vertical outrigger controlled by the hydraulic control. Both sides of the chassis equipped with electronic control console, the console installed with luminous level, lighting and speed buttons; outrigger cylinders equipped with one-way valve, and the vertical outrigger has two-way hydraulic lock. Float dimension: 473mm×608mm Reaction force of outrigger at max. lifting load:872KN | ● |
| Engine | SC7H260Q5, in-line six-cylinder water-cooled EFI diesel engine, manufactured by SDEC , rated power 192kW /2300rpm, max. torque 1000N.m / 1200 ~ 1600rpm, the Europe V emission standards.Fuel tank capacity : 260L | ● |
| Transmission | Mechanical transmission manufactured by Fast, with 8 forward gears and 2 reverse gears available | ● |
| Transfer case | ZHUZHOU GEAR, with high and low gear ,with differential lock. | |
| Axles | High-strength axles, four axles for driving: 6×6. | ● |
| Suspension | Leaf-spring balance suspension is used for front axles; Leaf-spring balance suspension with double longitudinal arms is used for rear axles. | ● |
| Tires | 6tires and 1 spare tire; Tire specifications:14.00R20 | ● |

| | | |
|-------------------|--|---|
| Brakes | Service brake: double-circuit air pressure brake, acting on all wheels. Parking brake: spring energy brake, acting on wheels of 2-3 axles. Auxiliary brake: engine exhaust brake and engine in-cylinder brake. | ● |
| Steering | Mechanically steering mechanism with hydraulic power assisted. | ● |
| Driver's cab | Full-dimension driver's cab, two passengers are allowable. Equipped with radio, adjustable seats, steering wheel, safety glasses, electrically controlled windshield washer, electrically operated rearview mirror , electrically operated door window glove box. and 6 kilograms fire extinguisher. Heater and air conditioner are available. | ● |
| | Independent fuel oil heater | ○ |
| Electrical system | 24V DC, negative ground, 2 batteries. | ● |
| Safety devices | Double-way hydraulic valve | ● |
| | GLONASS satellite positioning | ● |
| | ABS | ● |

技术规格

Technical specifications

|  | Superstructure | |
|--|---|------------|
| Frame | Designed and manufactured by XCMG, made of high strength steel. | ● |
| Hydraulic system | Constant displacement pump + load-sensing multi-way valve; with confluence technology adopted for multi-way valve, double-pump confluence can be realized when lifting, elevating or telescoping operation is carried out independently. Max. hoisting speed of main and auxiliary winches is up to 125 m/min. For simultaneous movements of main/auxiliary winch, telescoping or elevating, the two pumps supply oil separately. | ● |
| Operating mode | Hydraulic pilot control of all crane movements using two control levers. All crane movements are controlled by hydraulic pump and proportional valve. | ● |
| Main and 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, balance valve and a grooved drum equipped. It has features of high speed with a light load and low speed with a heavy load. | ● |
| Slewing system | Single-row, contact-ball, external tooth slewing ring, with a single slewing gear located at right side, is driven by the planetary gear reducer of slewing mechanism, which is driven by a hydraulic motor, and may continuously slew 360°. Power control or free slewing function is available, and the slewing speed may be infinitely regulated. | ● |
| Elevating system | Single cylinder with self-compensation balanced valve. | ● |
| Operator's cab | Ergonomically designed, with swing-out door and adjustable seat. It is equipped with safe glass and roof protective grille. Windshield is equipped with sun visor. Heater and air conditioning device is standard. Independent fuel oil heater | ● ○ |
| counterweight | 5.5 t | ● |
| Hook block | 25t Hook block | ● |
| | 3t Hook block | ○ |

|  | Boom and jib system | |
|---|---|---|
| Boom | Five-section boom with U-shape profile is made of high strength steel, with special anti-deformation design. Single cylinder plus ropes is used to telescope the boom. Boom length: 10.5m~41 m | ● |
| Single top | Fitted at boom head, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load does not exceed 2.8 t. | ● |
| Fixed jib | The jib consists of a connecting bracket, a rotating bracket and a foldable lattice jib. Three offset angles of 0° , 15° and 30° are available. It is stowed along the side of the boom. Fixed jib length: 8.3m. | ○ |
| Safety device | Hydraulic balance valve; Hydraulic relief valve; Load moment limiter; Lowering limiter prevents wire rope from over releasing; Anti-two block at boom head prevents wire rope from over-winding; Free sliding and slewing locking. | ● |
| | Anemometer | ○ |
| | Functions for EAC certificate, including virtual wall, low temperature warning , high voltage warning functions and load emergency lowering for safe | ○ |

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 | 总重量 Total weight |
|------------|----|----|----|---------------------|
| t | 10 | 10 | 10 | 30 |

1)上车携带5节主臂、主卷、25t钩、5.5t平衡重、3t钩、副臂、副卷；
驱动形式：6×6；轮胎规格：14.00R20；
1)For the superstructure, 5 boom sections, main winch, 25t hook block , 5.5t counterweight , 3t hook block, jib and auxiliary are included.
Driving type: 6×6; tire specification: 14.00R20.



| 吊钩 Hook | 倍率 No. of lines | 吊钩重量 Weight kg | 吊钩尺寸 Dimensions mm | 备注 Remarks |
|------------|--------------------|-------------------|-----------------------|------------------------------|
| 25t | 10 | 297 | 1175×450×417 | 单钩 Single hook , 标配 Standard |
| 3t | 1 | 60 | 518×236×236 | 单钩 Single hook , 选装 Optional |

作业速度
Working speeds



14.00R20



2.5 ~ 80



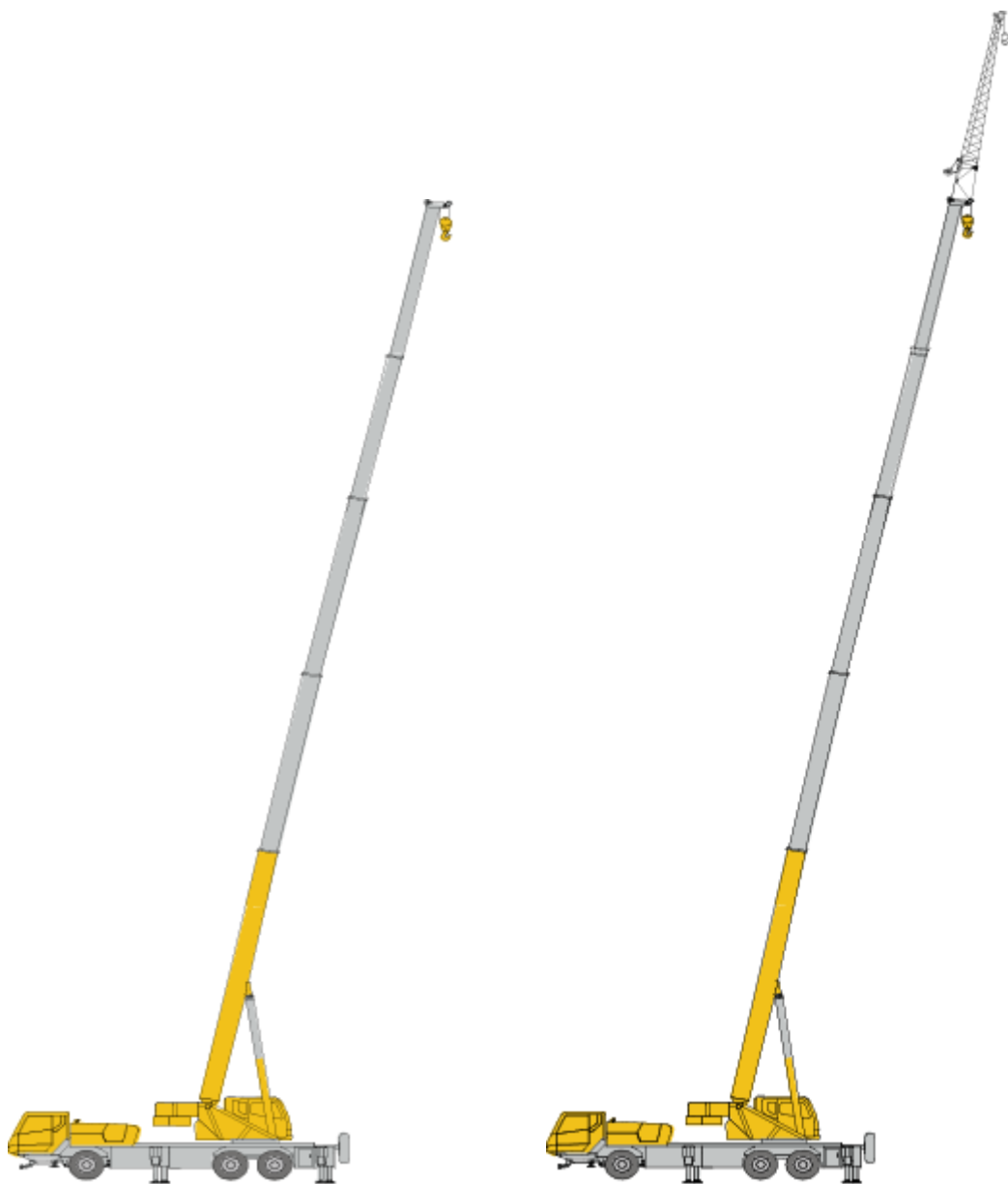
45%



| 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 |
|---------------|--|---------------------------------|-----------------------------------|
| | 0-125 m/min，单绳，第四层 m/min, single line,4th layer | 27.6 kN | 14 mm/170 m |
| | 0-125 m/min，单绳，第四层 m/min, single line,4th layer | 27.6kN | 14 mm/110 m |
| | 0-2.5 r/min | | |
| | 从-2°抬起至80°约35s Approx. 35s for boom elevation from -2° to 80° | | |
| | 从10.5m伸出至41m约95s Approx. 95s for boom extension from 10.5m to 41m | | |

臂架组合方案

Boom / Jib combinations



主臂

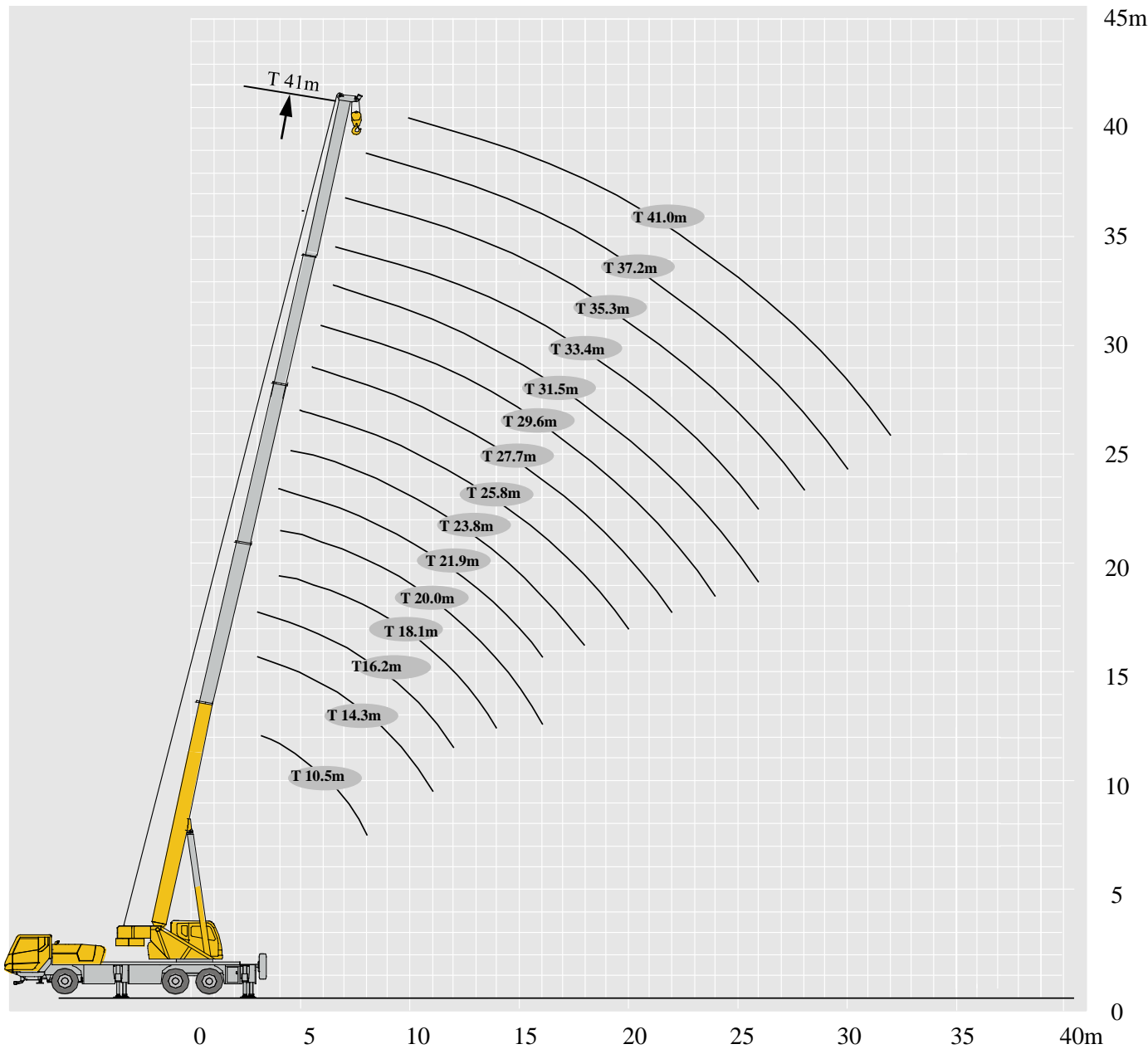
Telescopic boom

T : 10.5~41m

副臂

Jib



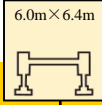


T : 10.5~41m
J : 8.3 m



起重性能表

Lifting capacities

T 10.5~41.0m

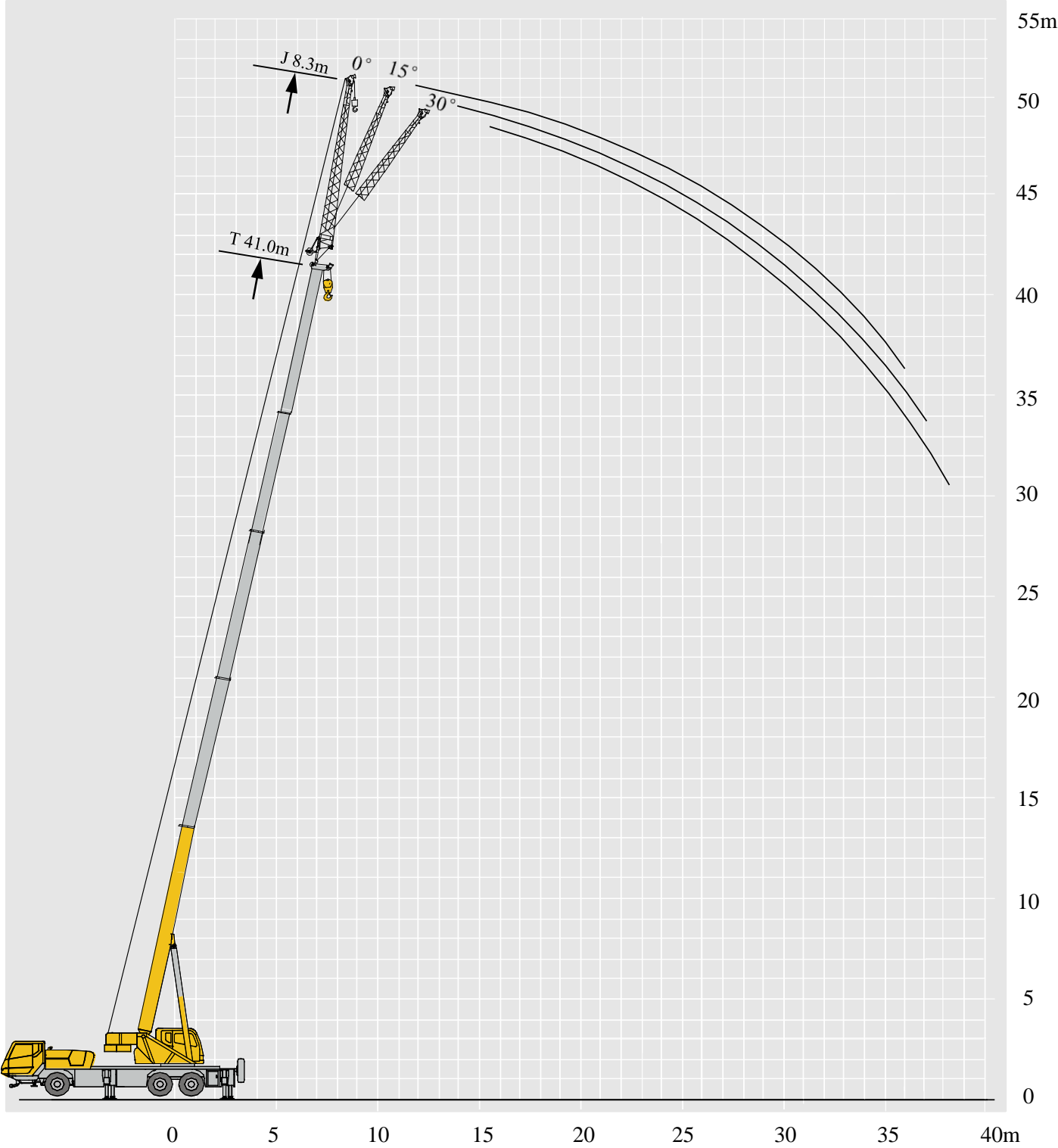
| | | | | | | | | |
|--|-------|--------|-------|-------|-------|--------|-------|-----|
| <div><div></div><div><div>10.5-41.0m</div></div><div><div>6.0m×6.4m</div></div><div><div>360°</div></div><div></div></div> | | | | | | | | |
| | 10.5m | 14.3 m | 16.2m | 18.1m | 20 m | 21.9 m | 23.8m | |
| 3 | 25000 | 21000 | | | | | | 3 |
| 3.5 | 24800 | 21000 | 19000 | 19000 | | | | 3.5 |
| 4 | 22800 | 20000 | 19000 | 19000 | 17600 | 15000 | | 4 |
| 4.5 | 21000 | 19600 | 19000 | 18000 | 17600 | 15000 | 15000 | 4.5 |
| 5 | 19600 | 18400 | 18600 | 17000 | 17600 | 15000 | 14300 | 5 |
| 5.5 | 18200 | 17000 | 17600 | 15800 | 16600 | 15000 | 13600 | 5.5 |
| 6 | 16800 | 16000 | 16600 | 14800 | 15600 | 15000 | 12800 | 6 |
| 6.5 | 14900 | 15000 | 14800 | 13800 | 14000 | 14000 | 12000 | 6.5 |
| 7 | 13300 | 14000 | 14500 | 13000 | 13000 | 13700 | 11400 | 7 |
| 8 | 11600 | 11600 | 12900 | 11300 | 12400 | 12600 | 10300 | 8 |
| 9 | | 9400 | 10700 | 9150 | 10200 | 11050 | 9400 | 9 |
| 10 | | 7750 | 9000 | 7500 | 8500 | 9350 | 8200 | 10 |
| 11 | | 6500 | 7650 | 6250 | 7250 | 8050 | 6950 | 11 |
| 12 | | | 6650 | 5250 | 6200 | 7000 | 5900 | 12 |
| 13 | | | 5800 | 4450 | 5400 | 6150 | 5100 | 13 |
| 14 | | | | 3750 | 4700 | 5450 | 4400 | 14 |
| 15 | | | | 3200 | 4100 | 4850 | 3850 | 15 |
| 16 | | | | | 3600 | 4350 | 3350 | 16 |
| 18 | | | | | | 3500 | 2550 | 18 |
| 20 | | | | | | | 1900 | 20 |
| 22 | | | | | | | | 22 |
| 24 | | | | | | | | 24 |
| 26 | | | | | | | | 26 |
| 28 | | | | | | | | 28 |
| 30 | | | | | | | | 30 |
| 32 | | | | | | | | 32 |

起重性能表

Lifting capacities



T 10.5~41.0m

| <div><div><div>10.5~41.0m</div><div>6.0m×6.4m</div><div>360°</div></div><div><div></div><div></div><div></div></div></div> | | | | | | | | | |
|--|-------|--------|-------|-------|--------|--------|-------|------|-----|
| | 25.8m | 27.7 m | 29.6m | 31.5m | 33.4 m | 35.3 m | 37.2m | 41m | |
| 3 | | | | | | | | | 3 |
| 3.5 | | | | | | | | | 3.5 |
| 4 | | | | | | | | | 4 |
| 4.5 | 12500 | 10000 | | | | | | | 4.5 |
| 5 | 12500 | 9500 | 10000 | | | | | | 5 |
| 5.5 | 12500 | 9100 | 10000 | 9300 | | | | | 5.5 |
| 6 | 12500 | 8700 | 10000 | 8800 | 7200 | 8400 | | | 6 |
| 6.5 | 12500 | 8100 | 9800 | 8500 | 6900 | 8300 | 7000 | | 6.5 |
| 7 | 12500 | 7900 | 9800 | 8200 | 6700 | 8200 | 6800 | | 7 |
| 8 | 11600 | 7300 | 9000 | 7600 | 6200 | 7400 | 6400 | 5600 | 8 |
| 9 | 10600 | 6700 | 8200 | 7200 | 5800 | 6700 | 6000 | 5500 | 9 |
| 10 | 8900 | 6300 | 7500 | 6600 | 5400 | 6100 | 5600 | 5400 | 10 |
| 11 | 7600 | 5800 | 6900 | 6200 | 5000 | 5600 | 5200 | 5000 | 11 |
| 12 | 6600 | 5400 | 6300 | 5800 | 4600 | 5200 | 4900 | 4500 | 12 |
| 13 | 5700 | 5000 | 5500 | 5500 | 4400 | 4800 | 4500 | 4200 | 13 |
| 14 | 5000 | 4700 | 4800 | 5300 | 4200 | 4400 | 4200 | 3800 | 14 |
| 15 | 4400 | 4400 | 4200 | 4700 | 3900 | 4100 | 3900 | 3600 | 15 |
| 16 | 3900 | 4200 | 3700 | 4200 | 3700 | 3800 | 3700 | 3400 | 16 |
| 18 | 3100 | 3700 | 2900 | 3400 | 3300 | 3150 | 3300 | 3000 | 18 |
| 20 | 2500 | 3000 | 2300 | 2700 | 3100 | 2500 | 2900 | 2500 | 20 |
| 22 | 2000 | 2500 | 1800 | 2200 | 2600 | 2000 | 2400 | 2150 | 22 |
| 24 | | | 1400 | 1800 | 2200 | 1600 | 1900 | 1750 | 24 |
| 26 | | | | 1500 | 1900 | 1250 | 1600 | 1400 | 26 |
| 28 | | | | | 1600 | 1000 | 1300 | 1150 | 28 |
| 30 | | | | | | 750 | 1100 | 900 | 30 |
| 32 | | | | | | | | 700 | 32 |



起重性能表
Lifting capacities

T 41.0m

| <div><div></div><div><div>41.0m</div><div>8.3m</div><div>6.0m×6.4m</div><div>360°</div></div><div></div></div> | | | | |
|---|------|------|------|----|
| | 0° | 15° | 30° | |
| 78 | 2800 | 2000 | 1600 | 78 |
| 75 | 2800 | 1800 | 1500 | 75 |
| 72 | 2700 | 1750 | 1450 | 72 |
| 70 | 2500 | 1650 | 1350 | 70 |
| 65 | 2150 | 1500 | 1250 | 65 |
| 60 | 1600 | 1350 | 1150 | 60 |
| 55 | 1000 | 1000 | 950 | 55 |
| 50 | 700 | 700 | 700 | 50 |
| 45 | 500 | 500 | 500 | 45 |

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 Gradability |
|  | 吊臂仰角 Boom position |  | 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 |  | 卷扬 Winch |
|  | 副臂起升高度 Hoist height with jib |  | 360°全回转 360° rotation |

主要技术参数表
Transportation plan

| 类别 Category | 项目 Item | | 单位 Unit | 参数 Parameter |
|--------------------|--|-------------|-------------|-----------------|
| 尺寸参数 Dimensions | 外形尺寸（长×宽×高） Outline size（length×width×height） | | mm | 12097×2550×3650 |
| | 轴距 Wheel base | | mm | 3750+1420 |
| | 轮距（前/后） Track（Front/ Rear） | | mm | 2095/2095/2095 |
| | 前悬/后悬 Front/ Rear overhang | | mm | 3022/1870 |
| | 前伸/后伸 Front/ Rear extension | | mm | 1015/299 |
| 重量参数 Weight | 最大允许总质量 Total weight in travel | | kg | 30000 |
| | 轴荷 Axle load | 一轴 1st axle | kg | 9000 |
| | | 二轴 2nd axle | kg | 9000 |
| | | 三轴 3rd axle | kg | 9000 |
| 动力参数 Power | 发动机型号 Engine model | | —— | SC7H260Q5 |
| | 额定功率/转速 Engine rated power/rpm | | kW/(r/min) | 192/2300 |
| | 最大净功率/转速 Max. net power/rpm | | kW/(r/min) | 188/2300 |
| | 最大输出扭矩/转速 Engine rated torque/rpm | | N.m/(r/min) | 1000/1200-1600 |
| 行驶参数 Travel | 最高车速 Max. travel speed | | km/h | ≥80 |
| | 最低稳定车速 Min. travel speed | | km/h | 2.5 ~ 3 |
| | 最小转弯直径 Min. turning diameter | | m | ≤22 |
| | 臂头最小转弯直径 Min. turning diameter at boom tip | | m | ≤25.6 |
| | 最小离地间隙 Min. ground clearance | | mm | 351 |
| | 接近角 Approach angle | | ° | 18 |
| | 离去角 Departure angle | | ° | 21 |
| | 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 | | % | ≥45 |
| | 百公里油耗 Fuel consumption per 100 km | | L | 35 |
| 噪音 Noise | 加速行驶机外噪声 Exterior noise level | | dB(A) | ≤80 |
| | 驾驶员耳旁噪声 Noise level at seated position | | dB(A) | ≤80 |

主要技术参数表
Transportation plan

| 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 | 25 | |
| | 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 | 3507 | |
| | | 副卷处 Auxiliary winch | mm | 3886 | |
| | 最大起重力矩 Max. load moment | 基本臂 Base boom | kN.m | 988 | |
| | | 最长主臂 Fully-extended boom | kN.m | 539 | |
| | | 最长主臂+副臂 Fully-extended boom + Jib | kN.m | 449 | |
| | 支腿跨距 Outrigger span | 纵向 Longitudinal | m | 6.0 | |
| | | 横向 Lateral | m | 6.4 | |
| | 起升高度 Hoist height | 基本臂 Base boom | m | 10.3 | |
| | | 最长主臂 Fully-extended boom | m | 41 | |
| | | 最长主臂+副臂 Fully-extended boom + Jib | m | 40.8 | |
| | 起重臂长度 Boom length | 基本臂 Base boom | m | 10.5 | |
| | | 最长主臂 Fully-extended boom | m | 41 | |
| | | 最长主臂+副臂 Fully-extended boom + Jib | m | 49.3 | |
| | 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 | ≤35 | |
| | 起重臂全伸时间 Boom fully extended time | | s | ≤95 | |
| | 最大回转速度 Max. slewing speed | | r/min | ≥2.5 | |
| | 支腿收放时间Outrigger extending and retracting time | 水平支腿 Outrigger beam | 收 Retracting | s | ≤20 |
| | | | 放 Extending | s | ≤25 |
| | | 垂直支腿 Outrigger jack | 收 Retracting | s | ≤20 |
| | | | 放 Extending | s | ≤25 |
| | 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 | ≥125 |
| | | 副起升机构 Auxiliary winch | | m/min | ≥125 |
| 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 | |