

SR-300L

ROUGH TERRAIN CRANE

【SPECIFICATION】

■CRANE Specification

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|--------------------------------|--|
| Maximum rated lifting capacity | 30ton × 3m |
| Boom length | 9.35m — 30.5m (4 section) |
| Fly jib length | 7.9m — 13.0m (2 section, offset 5°, 25°, 45°) |
| Maximum rated lifting height | 31.2m (Boom) 44.8m (jib) |
| Hoisting line speed (winch up) | Main winch 125m / min. (at 4th layer) |
| | Auxiliary winch 116m / min. (at 3rd layer) |
| Hoisting hook speed (winch up) | Main winch (Parts of line; 9) : 13.8m / min. (at 4th layer) |
| | Auxiliary winch (Parts of line; 1) : 116m / min. (at 3rd layer) |
| Boom derricking angle | 0° — 83° |
| Boom derricking time | 40s / 0° — 83° |
| Boom extending speed | 9.35m — 30.5m / 93s |
| Slewing speed | 2.9min ⁻¹ |
| Tail slewing radius | 3,500mm |

●Equipment and structure

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| Boom type | Box-shaped, 4-section hydraulically telescopic type (Boom section 3 / 4 simultaneously operated) |
| Jib type | 2 sections (2nd section of draw-out type) (offset angles 5°, 25° and 45°) |
| Boom extension/retraction equipment | Two hydraulic cylinders and wire ropes used together |
| Boom derricking/lowering equipment | One hydraulic cylinder of direct acting type with pressure-compensated flow control valve |
| Winch system Main & Auxiliary winches | Driven by axial plunger type hoisting motor through planetary gear reduction. Controlled independently by respective operating lever. Equipped with automatic brake. |
| Slewing equipment | Ball bearing type |
| Outriggers | Type Hydraulic H-beam type (with float and vertical cylinder in single unit) |
| | Extension width 6,600mm (Fully extended) |
| | 6,000mm (Intermediately extended) |
| | 5,000mm (Intermediately extended) |
| | 3,800mm (Intermediately extended) |
| Wire rope for hoisting | Main winch Diameter: 16mm × Length: 175m |
| | Auxiliary winch Diameter: 16mm × Length: 95m |

●Hydraulic equipment

| | |
|------------------------|---|
| Oil pump | 4 pumps, plunger and gear type |
| Hydraulic motor | Hoisting motor Axial plunger type |
| | Slewing motor Axial plunger type |
| Control valve | Double acting with integral check and relief valves |
| Cylinder | Double acting type |
| Oil reservoir capacity | 500L |

●Safety devices

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| | ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Outrigger status detector, Boom derricking / telescoping holding valve, Overhoist prevention device, Drum lock device (on aux. winch), Winch holding valve, Automatic winch brake, Winch drum roller, Hydraulic safety valves, Outrigger lock pins, Slewing lock, Joystick control safety stop system, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device |
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●Standard equipment

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| | Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device |
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●Operator's cab

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|--|---|
| | All steel welded construction, 1 person, Rubber mounted, Adjustable steering wheel, Adjustable seat, Seat belt, Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Cigarette lighter, Ashtray, Floor mat |
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●Optional equipment

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| | Winch over unwinding device, Winch drum mirror (Hoist mirror), Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, Smoke torch |
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■CARRIER Specification

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| Maximum traveling speed | 49km/h |
| Grade ability (tan θ) | 57% (computed at G.V.W. = 26990kg) |
| Minimum turning radius (center of extreme outer tire) | 8.2m (2 wheel steer) 4.9m (4 wheel steer) |

●Engine

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|---------------------|--|
| Model | Mitsubishi 6M60-TL |
| Type | 4 cycle, 6 cylinders, water cooled, direct injection turbo-charged diesel engine with intercooling |
| Piston displacement | 7.545L |
| Max. power | 200kW at 2,600min ⁻¹ |
| Max. torque | 785N·m at 1,400min ⁻¹ |

Fuel due to KATO's recommendation only

●Equipment and structure

| | |
|--------------------|---|
| Drive system | 4x2 / 4x4 |
| Torque converter | Engine mounted 3 elements 1 stage (with lock up clutch) |
| Transmission | Remote mounted full automatic |
| Number of speeds | 4 forward & 1 reverse speed (with HI - Low selector) |
| Axles | Front Planetary, drive/steer type |
| | Rear Planetary, drive/steer type |
| Suspension | Front & Rear Taper - leaf spring Hydraulic locking device with shock absorber |
| | Service Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit) |
| Brake system | Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type |
| | Auxiliary Exhaust brake |
| Steering | Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system) |
| Tire size | Front 385 / 95 R25 170E ROAD |
| | Rear 385 / 95 R25 170E ROAD |
| Fuel tank capacity | 300 L |
| Batteries | (12V-120AH) × 2 |

●Safety devices

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|--|---|
| | Emergency steering device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Air filter service warning device |
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●Standard equipment

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| | Centralized lubricating system |
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●Optional equipment

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| | Yellow rev. light |
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■GENERAL Dimensions


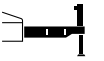
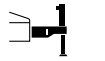
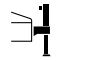

| | |
|--------------------|----------------------------------|
| Overall length | 11,360mm |
| Overall width | 2,620mm |
| Overall height | 3,475mm |
| Wheel base | 3,650mm |
| Treads | Front 2,170mm |
| | Rear 2,170mm |
| Passenger capacity | One person |
| Gross vehicle mass | Gross weight approx. 26,990kg |
| | Front weight approx. 13,000kg |
| | Rear weight approx. 13,990kg |

- Stow the hooks in place before traveling.
- Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.
- KATO products and specifications are subject to improvements and changes without notice.

RATED LIFTING CAPACITY



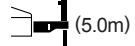
Based on ISO 4305

9.35m — 30.5m Boom

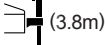
| |  (6.6m) | | | |  (6.0m) | | | |  (5.0m) | | | |  (3.8m) | | | |  (blocked on vertical cylinders) | | | |
|---------------------|---|------------|-------------|------------|---|------------|-------------|------------|---|------------|-------------|------------|---|------------|-------------|------------|--|------------|-------------|------------|
| Working radius (m) | Outriggers fully extended (360° full range) | | | | Outriggers intermediately extended (over side) | | | | Outriggers intermediately extended (over side) | | | | Outriggers intermediately extended (over side) | | | | Outriggers completely retracted (over side) | | | |
| | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom |
| 2.5 | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 12.00 | 10.35 | 9.10 | |
| 3.0 | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 26.00 | 18.90 | 12.50 | | 11.15 | 8.25 | 7.50 | |
| 3.5 | 27.20* | 19.00 | 12.50 | 7.50 | 27.20* | 19.00 | 12.50 | 7.50 | 27.20* | 19.00 | 12.50 | 7.50 | 20.20 | 15.20 | 12.50 | 7.50 | 9.00 | 6.75 | 6.30 | 5.50 |
| 4.0 | 23.00 | 19.00 | 12.50 | 7.50 | 23.00 | 19.00 | 12.50 | 7.50 | 23.00 | 19.00 | 12.50 | 7.50 | 16.35 | 12.60 | 11.40 | 7.50 | 7.45 | 5.60 | 5.35 | 5.15 |
| 4.5 | 21.20 | 18.65 | 12.50 | 7.50 | 21.20 | 18.65 | 12.50 | 7.50 | 21.20 | 17.30 | 12.50 | 7.50 | 13.65 | 10.65 | 9.85 | 7.50 | 6.25 | 4.65 | 4.60 | 4.50 |
| 5.0 | 19.40 | 17.30 | 12.50 | 7.50 | 19.40 | 17.30 | 12.50 | 7.50 | 18.85 | 14.70 | 12.50 | 7.50 | 11.40 | 9.10 | 8.60 | 7.50 | 5.30 | 3.95 | 3.95 | 3.95 |
| 5.5 | 17.80 | 16.15 | 12.50 | 7.50 | 17.80 | 16.15 | 12.50 | 7.50 | 15.65 | 12.65 | 11.80 | 7.50 | 9.50 | 7.90 | 7.55 | 7.25 | 4.50 | 3.30 | 3.45 | 3.45 |
| 6.0 | 16.30 | 15.15 | 12.25 | 7.50 | 16.30 | 15.15 | 12.25 | 7.50 | 13.15 | 11.05 | 10.45 | 7.50 | 8.10 | 6.90 | 6.70 | 6.50 | 3.85 | 2.80 | 3.00 | 3.05 |
| 6.5 | 15.10 | 14.25 | 11.50 | 7.50 | 15.10 | 13.50 | 11.50 | 7.50 | 11.25 | 9.75 | 9.35 | 7.50 | 7.05 | 6.05 | 6.00 | 5.85 | 3.30 | 2.35 | 2.60 | 2.70 |
| 7.0 | | 13.45 | 10.80 | 7.50 | | 12.00 | 10.80 | 7.50 | | 8.70 | 8.40 | 7.50 | | 5.35 | 5.40 | 5.35 | | 2.00 | 2.25 | 2.40 |
| 7.5 | | 12.70 | 10.20 | 7.50 | | 10.75 | 10.20 | 7.50 | | 7.75 | 7.60 | 7.40 | | 4.75 | 4.85 | 4.85 | | 1.65 | 1.95 | 2.15 |
| 8.0 | | 11.80 | 9.65 | 7.50 | | 9.65 | 9.35 | 7.50 | | 7.00 | 6.95 | 6.80 | | 4.25 | 4.40 | 4.45 | | 1.40 | 1.70 | 1.90 |
| 9.0 | | 9.70 | 8.65 | 6.80 | | 7.95 | 7.85 | 6.80 | | 5.75 | 5.80 | 5.75 | | 3.40 | 3.60 | 3.70 | | 0.90 | 1.25 | 1.50 |
| 10.0 | | 7.90 | 7.85 | 6.15 | | 6.50 | 6.70 | 6.15 | | 4.70 | 4.90 | 4.95 | | 2.75 | 3.00 | 3.15 | | 0.55 | 0.90 | 1.15 |
| 11.0 | | 6.50 | 6.90 | 5.60 | | 5.35 | 5.75 | 5.60 | | 3.85 | 4.20 | 4.30 | | 2.20 | 2.50 | 2.65 | | | 0.60 | 0.85 |
| 12.0 | | 5.45 | 6.00 | 5.10 | | 4.50 | 5.00 | 5.05 | | 3.15 | 3.60 | 3.75 | | 1.75 | 2.10 | 2.30 | | | | 0.65 |
| 13.0 | | 4.55 | 5.20 | 4.70 | | 3.75 | 4.35 | 4.50 | | 2.60 | 3.10 | 3.30 | | 1.35 | 1.70 | 1.95 | | | | |
| 13.5 | | 4.20 | 4.85 | 4.50 | | 3.45 | 4.05 | 4.20 | | 2.40 | 2.90 | 3.05 | | 1.20 | 1.55 | 1.80 | | | | |
| 14.0 | | | 4.50 | 4.35 | | | 3.75 | 4.00 | | | 2.70 | 2.90 | | | 1.40 | 1.65 | | | | |
| 15.0 | | | 3.90 | 4.05 | | | 3.25 | 3.55 | | | 2.30 | 2.55 | | | 1.15 | 1.40 | | | | |
| 16.0 | | | 3.45 | 3.75 | | | 2.85 | 3.20 | | | 2.00 | 2.25 | | | 0.95 | 1.15 | | | | |
| 17.0 | | | 3.00 | 3.35 | | | 2.50 | 2.85 | | | 1.70 | 1.95 | | | 0.75 | 1.00 | | | | |
| 18.0 | | | 2.65 | 2.95 | | | 2.15 | 2.50 | | | 1.45 | 1.75 | | | 0.60 | 0.80 | | | | |
| 19.0 | | | 2.35 | 2.65 | | | 1.90 | 2.20 | | | 1.20 | 1.55 | | | | 0.65 | | | | |
| 20.0 | | | 2.05 | 2.35 | | | 1.65 | 2.00 | | | 1.05 | 1.35 | | | | 0.50 | | | | |
| 20.5 | | | 1.95 | 2.25 | | | 1.55 | 1.85 | | | 0.95 | 1.25 | | | | | | | | |
| 21.0 | | | | 2.10 | | | | 1.75 | | | | 1.15 | | | | | | | | |
| 22.0 | | | | 1.90 | | | | 1.55 | | | | 1.00 | | | | | | | | |
| 24.0 | | | | 1.50 | | | | 1.20 | | | | 0.70 | | | | | | | | |
| 26.0 | | | | 1.20 | | | | 0.95 | | | | 0.50 | | | | | | | | |
| 27.9 | | | | 0.95 | | | | 0.70 | | | | | | | | | | | | |
| Standard hook | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | |
| Hook mass | 250kg | | | | 250kg | | | | 250kg | | | | 250kg | | | | 250kg | | | |
| Parts of line | 9*7 | 6 | 4 | 4 | 9*7 | 6 | 4 | 4 | 9*7 | 6 | 4 | 4 | 9*7 | 6 | 4 | 4 | 7 | 6 | 4 | 4 |
| Critical boom angle | — | — | — | — | — | — | — | — | — | — | — | 20° | — | — | 28° | 41° | — | 40° | 55° | 62° |

(Unit : Metric ton)

30.5m Boom+7.9m Jib


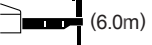
|  (6.6m) | | | | | | |  (6.0m) | | | | | | |  (5.0m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|-------------|--------------------|------------|------------|------|
| Outriggers fully extended (360° full range) | | | | | | | Outriggers intermediately extended (over side) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | |
| 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 | 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 | 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 |
| 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 | 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 | 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 |
| 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 | 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 | 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 |
| 71.0 | 13.2 | 3.11 | 15.2 | 2.32 | 16.5 | 1.66 | 71.0 | 13.2 | 3.11 | 15.3 | 2.32 | 16.5 | 1.66 | 72.0 | 12.5 | 3.23 | 14.6 | 2.37 | 15.9 | 1.68 |
| 69.0 | 14.5 | 2.89 | 16.3 | 2.19 | 17.6 | 1.63 | 69.0 | 14.5 | 2.89 | 16.3 | 2.19 | 17.6 | 1.63 | 71.0 | 13.1 | 2.98 | 15.3 | 2.32 | 16.5 | 1.66 |
| 65.0 | 16.9 | 2.45 | 18.7 | 1.94 | 19.8 | 1.57 | 65.0 | 16.9 | 2.45 | 18.7 | 1.94 | 19.8 | 1.57 | 69.0 | 14.3 | 2.55 | 16.3 | 2.19 | 17.6 | 1.63 |
| 61.0 | 19.2 | 2.12 | 20.9 | 1.73 | 21.8 | 1.53 | 64.0 | 17.5 | 2.35 | 19.3 | 1.88 | 20.3 | 1.56 | 66.0 | 16.3 | 1.92 | 18.0 | 1.76 | 19.3 | 1.58 |
| 58.0 | 20.8 | 1.92 | 22.5 | 1.60 | 23.3 | 1.47 | 63.0 | 18.1 | 2.27 | 19.8 | 1.83 | 20.8 | 1.55 | 61.0 | 18.7 | 1.35 | 20.6 | 1.20 | 21.7 | 1.15 |
| 55.0 | 22.4 | 1.68 | 24.0 | 1.49 | 24.6 | 1.39 | 61.0 | 19.1 | 2.01 | 20.9 | 1.73 | 21.8 | 1.53 | 55.0 | 21.8 | 0.81 | 23.4 | 0.74 | 24.3 | 0.71 |
| 54.0 | 22.8 | 1.60 | 24.4 | 1.46 | 25.0 | 1.37 | 59.0 | 20.2 | 1.78 | 21.9 | 1.62 | 22.8 | 1.50 | 53.0 | 22.8 | 0.67 | 24.4 | 0.60 | 25.1 | 0.59 |
| 50.0 | 24.8 | 1.26 | 26.2 | 1.16 | 26.6 | 1.16 | 55.0 | 22.2 | 1.37 | 23.7 | 1.29 | 24.5 | 1.25 | 51.0 | 23.8 | 0.53 | 25.3 | 0.50 | 26.0 | 0.47 |
| 46.0 | 26.6 | 0.99 | 27.8 | 0.93 | 28.0 | 0.93 | 46.0 | 26.4 | 0.75 | 27.7 | 0.71 | 27.9 | 0.71 | Standard hook | | for 4.0 ton | | | | |
| 40.0 | 28.9 | 0.69 | 29.8 | 0.68 | | | 45.0 | 26.8 | 0.70 | 28.0 | 0.67 | | | Hook mass | | 80kg | | | | |
| 34.0 | 31.0 | 0.46 | 31.7 | 0.45 | | | 40.0 | 28.8 | 0.48 | 29.8 | 0.46 | | | Parts of line | | 1 | | | | |
| Standard hook | for 4.0 ton | | | | | | Standard hook | for 4.0 ton | | | | | | Critical boom angle | 49° | | 49° | | 49° | |
| Hook mass | 80kg | | | | | | Hook mass | 80kg | | | | | | | | | | | | |
| Parts of line | 1 | | | | | | Parts of line | 1 | | | | | | | | | | | | |
| Critical boom angle | 32° | | 32° | | 44° | | Critical boom angle | 38° | | 38° | | 44° | | | | | | | | |

30.5m Boom+7.9m Jib


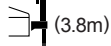
|  (3.8m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 |
| 78.0 | 8.3 | 3.50 | 10.6 | 2.40 | 12.2 | 1.70 |
| 76.0 | 9.6 | 3.13 | 11.9 | 2.40 | 13.5 | 1.70 |
| 73.0 | 11.4 | 2.31 | 13.8 | 1.87 | 15.3 | 1.69 |
| 71.0 | 12.6 | 1.87 | 14.9 | 1.55 | 16.4 | 1.41 |
| 67.0 | 14.9 | 1.22 | 17.1 | 1.03 | 18.3 | 0.97 |
| 61.0 | 18.3 | 0.56 | 20.2 | 0.48 | 21.3 | 0.45 |
| Standard hook for 4.0 ton | | | | | | |
| Hook mass 80kg | | | | | | |
| Parts of line 1 | | | | | | |
| Critical boom angle 59° 59° 59° | | | | | | |

611-75102000

30.5m Boom+13.0m Jib

|  (6.6m) | | | | | | |  (6.0m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers fully extended (360° full range) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 | 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 |
| 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 | 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 |
| 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 | 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 |
| 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 | 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 |
| 65.0 | 19.6 | 1.61 | 22.7 | 1.01 | 24.5 | 0.80 | 65.0 | 19.6 | 1.61 | 22.7 | 1.01 | 24.5 | 0.80 |
| 61.0 | 22.3 | 1.42 | 25.1 | 0.94 | 26.7 | 0.78 | 61.0 | 22.3 | 1.42 | 25.1 | 0.94 | 26.7 | 0.78 |
| 60.0 | 23.0 | 1.38 | 25.7 | 0.93 | 27.2 | 0.78 | 60.0 | 23.0 | 1.38 | 25.7 | 0.93 | 27.2 | 0.78 |
| 53.0 | 27.2 | 1.19 | 29.5 | 0.87 | 30.4 | 0.77 | 58.0 | 24.2 | 1.31 | 26.8 | 0.91 | 28.1 | 0.78 |
| 49.0 | 29.3 | 0.94 | 31.4 | 0.84 | 32.0 | 0.77 | 54.0 | 26.5 | 1.01 | 28.9 | 0.88 | 30.0 | 0.77 |
| 47.0 | 30.3 | 0.83 | 32.3 | 0.76 | 32.8 | 0.77 | 52.0 | 27.5 | 0.89 | 29.9 | 0.82 | 30.9 | 0.77 |
| 46.0 | 30.7 | 0.78 | 32.7 | 0.72 | 33.1 | 0.72 | 50.0 | 28.5 | 0.78 | 30.8 | 0.72 | 31.7 | 0.70 |
| 42.0 | 32.5 | 0.61 | 34.2 | 0.57 | | | 46.0 | 30.6 | 0.58 | 32.5 | 0.55 | 33.0 | 0.55 |
| 39.0 | 33.8 | 0.49 | 35.3 | 0.47 | | | 44.0 | 31.4 | 0.51 | 33.3 | 0.47 | | |
| Standard hook for 4.0 ton | | | | | | | Standard hook for 4.0 ton | | | | | | |
| Hook mass 80kg | | | | | | | Hook mass 80kg | | | | | | |
| Parts of line 1 | | | | | | | Parts of line 1 | | | | | | |
| Critical boom angle 37° 37° 44° | | | | | | | Critical boom angle 42° 42° 44° | | | | | | |



30.5m Boom+13.0m Jib

|  (5.0m) | | | | | | |  (3.8m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers intermediately extended (over side) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 | 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 |
| 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 | 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 |
| 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 | 76.0 | 11.6 | 2.20 | 15.2 | 1.24 | 17.8 | 0.85 |
| 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 | 71.0 | 15.0 | 1.47 | 18.8 | 1.12 | 21.1 | 0.84 |
| 68.0 | 17.6 | 1.79 | 20.7 | 1.07 | 22.8 | 0.82 | 69.0 | 16.4 | 1.17 | 20.0 | 0.93 | 22.2 | 0.82 |
| 62.0 | 21.4 | 1.15 | 24.5 | 0.96 | 26.1 | 0.79 | 67.0 | 17.7 | 0.93 | 21.1 | 0.75 | 23.3 | 0.68 |
| 60.0 | 22.5 | 0.97 | 25.5 | 0.84 | 27.2 | 0.78 | 64.0 | 19.6 | 0.64 | 22.9 | 0.51 | 24.8 | 0.47 |
| 58.0 | 23.7 | 0.82 | 26.6 | 0.71 | 28.1 | 0.68 | Standard hook for 4.0 ton | | | | | | |
| 54.0 | 26.0 | 0.55 | 28.6 | 0.49 | 29.8 | 0.48 | Hook mass 80kg | | | | | | |
| Standard hook for 4.0 ton | | | | | | | Parts of line 1 | | | | | | |
| Hook mass 80kg | | | | | | | Critical boom angle 62° 62° 62° | | | | | | |
| Parts of line 1 | | | | | | | | | | | | | |
| Critical boom angle 52° 52° 52° | | | | | | | | | | | | | |

611-75103000

■ When the outriggers are not used

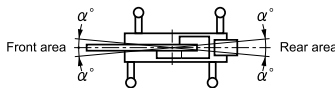
(Unit : Metric ton)

|  | | | | | | |  | | | | | | |
|---|----------------------|-----------------------|---------------|-----------------------|---------------|-----------------------|--|-----------------------|---------------|-----------------------|---------------|-----------------------|------------------------|
| Working radius (m) | Stationary on rubber | | | | | | Pick & carry (less than 2 km/h) | | | | | | Working radius (m) |
| | 9.35m Boom | | 16.4m Boom | | 23.45m Boom | | 9.35m Boom | | 16.4m Boom | | 23.45m Boom | | |
| | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | |
| 3.0 | 13.50 | 8.10 | 9.00 | 6.80 | | | 10.00 | 6.10 | 6.60 | 5.10 | | | 3.0 |
| 3.5 | 12.00 | 6.80 | 9.00 | 5.60 | 6.50 | 4.50 | 8.95 | 5.10 | 6.60 | 4.90 | 5.50 | 3.20 | 3.5 |
| 4.0 | 10.75 | 5.80 | 9.00 | 4.65 | 6.50 | 4.45 | 8.00 | 4.30 | 6.60 | 4.10 | 5.50 | 3.20 | 4.0 |
| 4.5 | 9.65 | 5.00 | 9.00 | 3.85 | 6.50 | 3.80 | 7.10 | 3.65 | 6.60 | 3.45 | 5.50 | 3.20 | 4.5 |
| 5.0 | 8.70 | 4.30 | 8.20 | 3.20 | 6.50 | 3.25 | 6.40 | 3.15 | 6.00 | 2.90 | 5.50 | 2.95 | 5.0 |
| 5.5 | 7.80 | 3.60 | 7.40 | 2.70 | 6.05 | 2.80 | 5.75 | 2.65 | 5.40 | 2.40 | 5.15 | 2.55 | 5.5 |
| 6.0 | 7.00 | 3.00 | 6.60 | 2.25 | 5.65 | 2.45 | 5.20 | 2.25 | 5.00 | 1.95 | 4.80 | 2.20 | 6.0 |
| 6.5 | 6.25 | 2.50 | 5.90 | 1.85 | 5.25 | 2.10 | 4.70 | 1.90 | 4.45 | 1.60 | 4.45 | 1.90 | 6.5 |
| 7.0 | | | 5.20 | 1.55 | 4.85 | 1.80 | | | 3.90 | 1.30 | 4.15 | 1.60 | 7.0 |
| 8.0 | | | 4.00 | 1.00 | 4.10 | 1.30 | | | 3.00 | 0.80 | 3.45 | 1.15 | 8.0 |
| 9.0 | | | 3.15 | 0.60 | 3.50 | 0.95 | | | 2.40 | | 2.80 | 0.80 | 9.0 |
| 10.0 | | | 2.50 | | 3.00 | 0.60 | | | 1.80 | | 2.30 | 0.50 | 10.0 |
| 11.0 | | | 2.00 | | 2.50 | | | | 1.30 | | 1.90 | | 11.0 |
| 12.0 | | | 1.60 | | 2.10 | | | | 1.00 | | 1.55 | | 12.0 |
| 13.0 | | | 1.25 | | 1.75 | | | | 0.75 | | 1.25 | | 13.0 |
| 14.0 | | | | | 1.45 | | | | | | 1.00 | | 14.0 |
| 15.0 | | | | | 1.20 | | | | | | 0.75 | | 15.0 |
| 16.0 | | | | | 0.95 | | | | | | 0.55 | | 16.0 |
| 17.0 | | | | | 0.75 | | | | | | | | 17.0 |
| 18.0 | | | | | 0.55 | | | | | | | | 18.0 |
| Standard hook | for 30 ton | | | | | | for 30 ton | | | | | | Standard hook |
| Hook mass | 250kg | | | | | | 250kg | | | | | | Hook mass |
| Parts of line | 4 | | | | | | 4 | | | | | | Parts of line |
| Critical boom angle | — | — | — | 45° | 29° | 59° | — | — | — | 51° | 38° | 58° | Critical boom angle |

■ Notes for the rated lifting capacity chart

■ When the outriggers are used

1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation. [30 ton hook (mass: 250kg), 4 ton hook (mass: 80kg)]
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
3. The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The jib working radius is based on the jib mounted on the end of the 30.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
5. Do not operate the jib when the outriggers are completely retracted.
6. The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according the rated lifting capacity chart.
Use the rated lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.

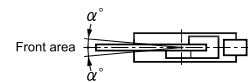


| Outrigger extension status | Intermediate extension (6.0m) | Intermediate extension (5.0m) | Intermediate extension (3.8m) | Full retraction |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------|
| Area α° | 35 | 30 | 20 | 3 |

7. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
[The hook for use with the rooster sheave is the 4 ton hook (mass: 80kg) with one part of line.]
8. If the boom length, boom angle and/or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
9. If you are working with the boom while the jib is rigged, subtract 2.2 ton plus the mass of all attached hook, slings etc. to the boom from the each rated lifting capacity of the boom, with an upper limit of 14 ton.
Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are retracted.
10. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
11. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
12. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
13. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

■ When the outriggers are not used

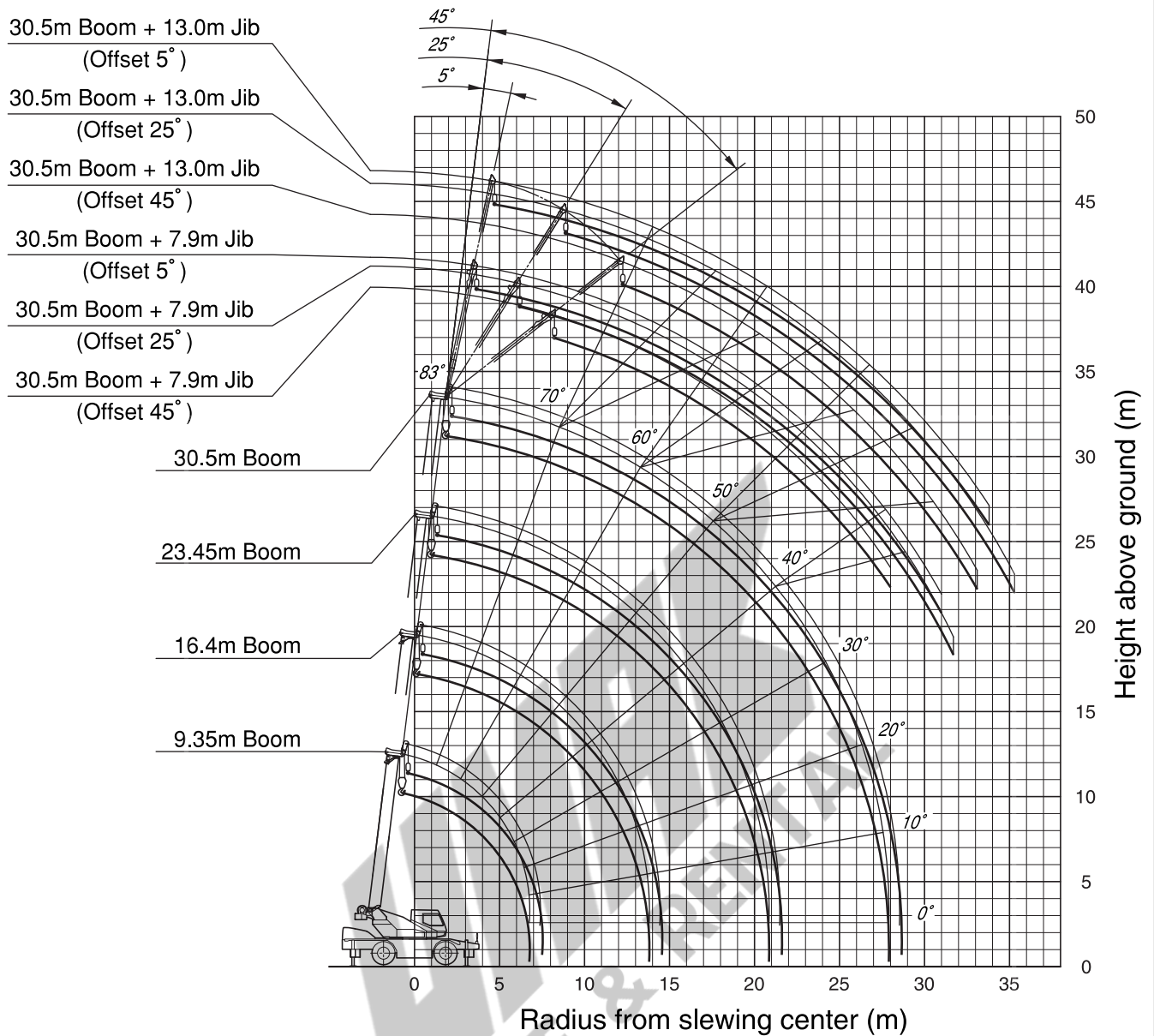
1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
[Rated tire pressure: 900kPa (9.0kgf/cm²)]
3. The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The rated lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.



| Crane operation | Stationary crane-on-rubber operation | Pick and carry operation |
|---------------------|--------------------------------------|--------------------------|
| Area α° | 1 | 1 |

5. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
[The hook for use with the rooster shave is the 4 ton hook (mass: 80kg) with one part of line.]
6. Do not work with the jib or with a boom length of more than 23.45m.
7. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
8. For pick and carry operation, the super-slow speed switch must be switched to "ON" and the shift lever set to speed 1.
9. For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.
Take particular care to avoid sharp turns, sudden starts and stops.
10. Never operate the crane during pick and carry operation. The slewing brake must be applied.
11. If the boom length or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
12. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
13. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
14. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
15. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

WORKING RANGE

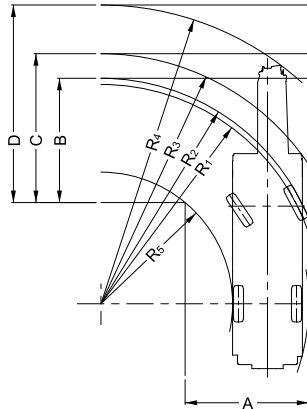


Note:

1. This diagram does not include deflection of Boom and Fly jib.
2. The outriggers are fully extended.

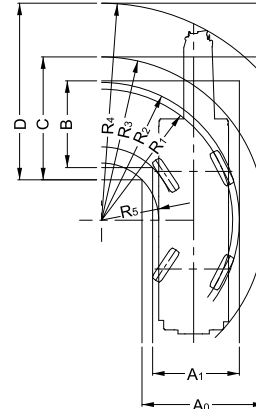
Minimum path width

● Left turn in two-wheel steering mode



- $R_1=8.20\text{m}$
(Minimum turning radius)
- $R_2=8.40\text{m}$
(Turning radius of extremely outer tyre)
- $R_3=9.35\text{m}$
(Chassis turning radius)
- $R_4=11.17\text{m}$
(Boom end turning radius)
- $R_5=4.92\text{m}$
(Turning radius extremely chassis inner)
- $A=4.63\text{m}$ (Width of entrance)
- $B=4.63\text{m}$ (Width of wheel exit)
- $C=5.57\text{m}$ (Width of chassis exit)
- $D=7.39\text{m}$ (Width of exit at end of boom)

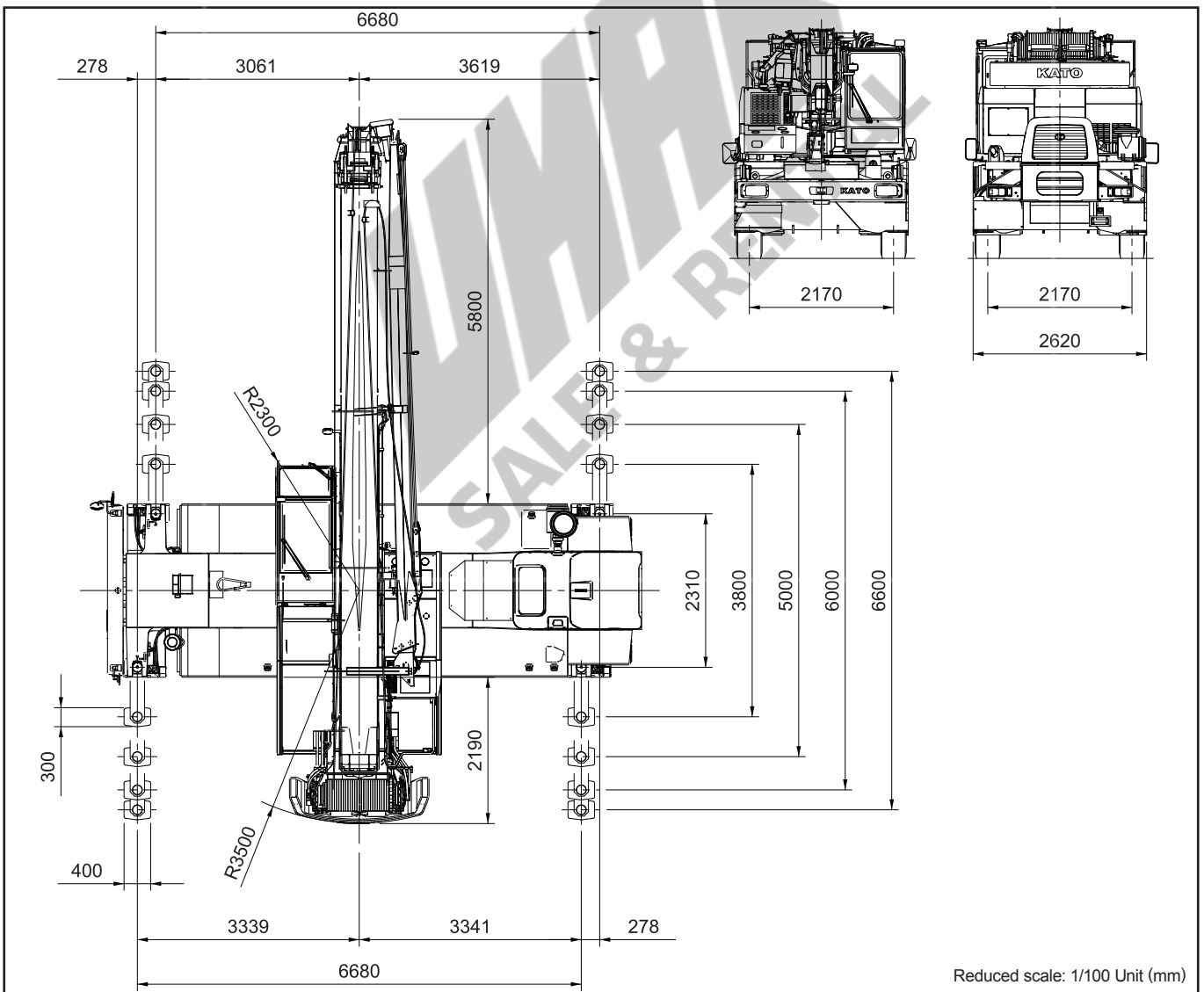
● Left turn in 4-wheel steering mode



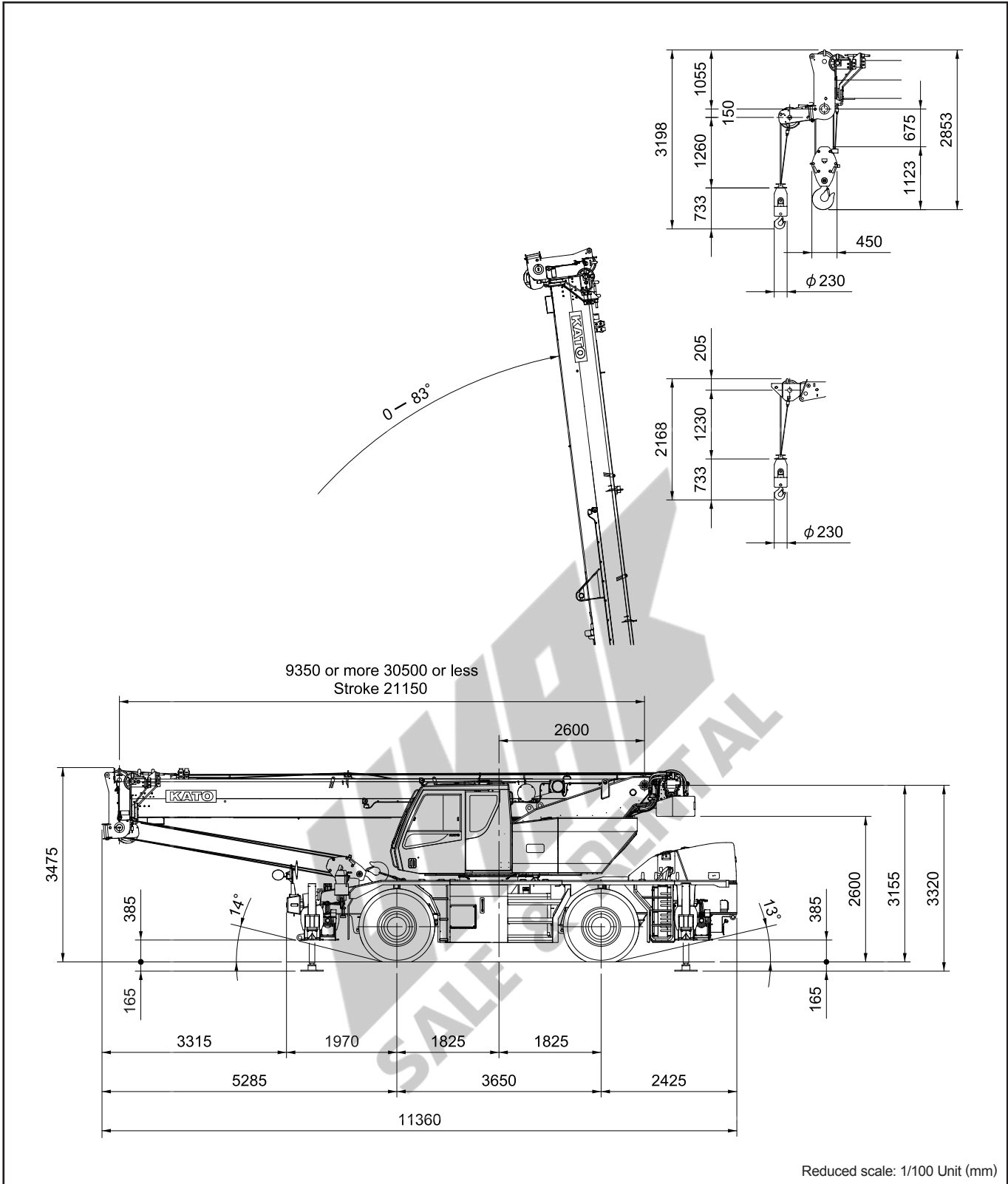
- $R_1=4.90\text{m}$
(Minimum turning radius)
- $R_2=5.10\text{m}$
(Turning radius of extremely outer tyre)
- $R_3=6.10\text{m}$
(Chassis turning radius)
- $R_4=8.12\text{m}$
(Boom end turning radius)
- $R_5=2.10\text{m}$
(Turning radius extremely chassis inner)
- $A_0=4.60\text{m}$ (Width of entrance)
- $A_1=3.25\text{m}$ (Width of wheel entrance)
- $B=3.25\text{m}$ (Width of wheel exit)
- $C=4.60\text{m}$ (Width of chassis exit)
- $D=6.61\text{m}$ (Width of exit at end of boom)

Note: The above values are based on calculations.

Overall view



■ Overall view



* KATO products and specifications are subject to improvements and changes without notice.

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C03391
4.2013-1000 (TI) 1



We acquired the "ISO 9001" certification which is an international standard for quality assurance.

SR-300L

KATO



Address inquiries to :

<http://www.kato-works.co.jp>

NOTE : Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.



KATO

**QUALITY & EXPERIENCE
SINCE 1895**

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C03381
4.2013-1000(AT)1 Printed in Japan

SR-300L

Rough Terrain Crane

Maximum rated lifting capacity: 30t × 3m

Maximum boom length: 30.5m

Engine output: 200kW / 2,600min⁻¹(ISO Net)



Innovations For The Future

KATO WORKS CO.,LTD.

Powerful & Reliable 4 section round shaped SUPERBOOM

SR-300L

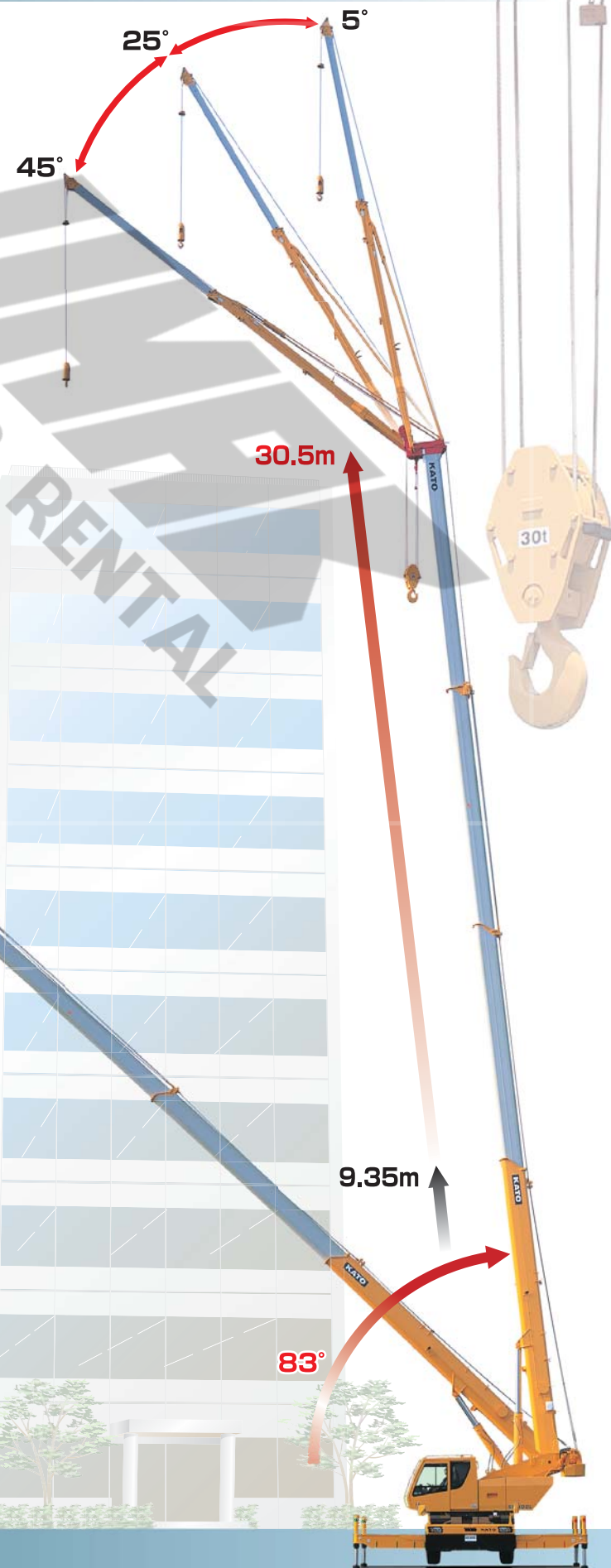
Fully Hydraulic operated solid 30.5m SUPERBOOM combined with 13m Fly-jib offers you wider working ranges and quick erection in narrow spaces

- Maximum Lifting Capacity — 30ton×3.0m
- Boom Length — 9.35m~30.5m
- Boom Derricking Angle — 0°~83°
- Jib Length — 7.9m & 13.0m
- Jib Off-set Angle — 5°, 25°, 45°
- Maximum Lifting Height — 31.2m (Boom)
44.8m (Jib)



← Minimum Stroke 2.31m →
 ← Intermittent Stroke 3.80m →
 ← Intermittent Stroke 5.00m →
 ← Intermittent Stroke 6.00m →
 ← Maximum Stroke 6.60m →

Outrigger Width



Comfortable operator's cab for the Professional Works

New ACS Moment Limiter Compuload (MS-200) with outrigger width detector and working range limiting function



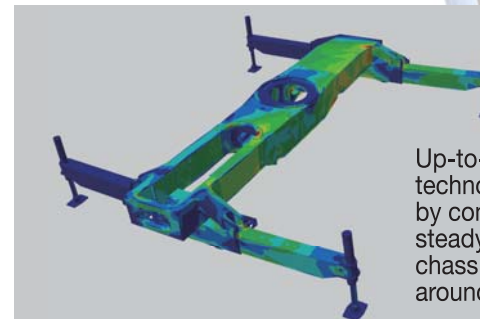
- Easy touch panel operation
- High quality color display
- Working range limiting function

- Big size new cluster meter
- Air duct (option)
- Durable switches

- Joystick control levers
- Fatigue free adjustable seat



Safe and Steady



Up-to-date design technologies assisted by computer assure steady and rigid chassis frame while all around lifting works.



Making front view wider and assuring more safety at travelling with lower position of boom foot pin and smaller front overhang.

SR-300L

ROUGH TERRAIN CRANE

【SPECIFICATION】

■CRANE Specification

| | |
|--------------------------------|--|
| Maximum rated lifting capacity | 30ton × 3m |
| Boom length | 9.35m — 30.5m (4 section) |
| Fly jib length | 7.9m — 13.0m (2 section, offset 5° ,25° ,45°) |
| Maximum rated lifting height | 31.2m (Boom) 44.8m (jib) |
| Hoisting line speed (winch up) | Main winch 125m / min. (at 4th layer) |
| | Auxiliary winch 116m / min. (at 3rd layer) |
| Hoisting hook speed (winch up) | Main winch (Parts of line; 9) : 13.8m / min. (at 4th layer) |
| | Auxiliary winch (Parts of line; 1) : 116m / min. (at 3rd layer) |
| Boom derricking angle | 0° — 83° |
| Boom derricking time | 40s / 0° — 83° |
| Boom extending speed | 9.35m — 30.5m / 93s |
| Slewing speed | 2.9min ⁻¹ |
| Tail slewing radius | 3,500mm |

●Equipment and structure

| | |
|--|--|
| Boom type | Box-shaped, 4-section hydraulically telescopic type (Boom section 3 / 4 simultaneously operated) |
| Jib type | 2 sections (2nd section of draw-out type) (offset angles 5° ,25° and 45°) |
| Boom extension/retraction equipment | Two hydraulic cylinders and wire ropes used together |
| Boom derricking/lowering equipment | One hydraulic cylinder of direct acting type with pressure-compensated flow control valve |
| Winch system Main & Auxiliary winches | Driven by axial plunger type hoisting motor through planetary gear reduction. Controlled independently by respective operating lever. Equipped with automatic brake. |
| Slewing equipment | Ball bearing type |
| Outriggers | Type Hydraulic H-beam type (with float and vertical cylinder in single unit) |
| | Extension width 6,600mm (Fully extended) |
| | 6,000mm (Intermediately extended) |
| | 5,000mm (Intermediately extended) |
| | 3,800mm (Intermediately extended) |
| Wire rope for hoisting | Main winch Diameter: 16mm × Length: 175m |
| | Auxiliary winch Diameter: 16mm × Length: 95m |

●Hydraulic equipment

| | |
|------------------------|---|
| Oil pump | 4 pumps, plunger and gear type |
| Hydraulic motor | Hoisting motor Axial plunger type |
| | Slewing motor Axial plunger type |
| Control valve | Double acting with integral check and relief valves |
| Cylinder | Double acting type |
| Oil reservoir capacity | 500L |

●Safety devices

| | |
|--|--|
| | ACS (Automatic Crane Stopper with voice alarm), Slewing automatic stop system, Outrigger status detector, Boom derricking / telescoping holding valve, Overhoist prevention device, Drum lock device (on aux. winch), Winch holding valve, Automatic winch brake, Winch drum roller, Hydraulic safety valves, Outrigger lock pins, Slewing lock, Joystick control safety stop system, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device |
|--|--|

●Standard equipment

| | |
|--|---|
| | Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device |
|--|---|

●Operator's cab

| | |
|--|---|
| | All steel welded construction, 1 person, Rubber mounted, Adjustable steering wheel, Adjustable seat, Seat belt, Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Cigarette lighter, Ashtray, Floor mat |
|--|---|

●Optional equipment

| | |
|--|---|
| | Winch over unwinding device, Winch drum mirror (Hoist mirror), Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, Smoke torch |
|--|---|

■CARRIER Specification

| | |
|---|--|
| Maximum traveling speed | 49km/h |
| Grade ability (tan θ) | 57% (computed at G.V.W. = 26990kg) |
| Minimum turning radius (center of extreme outer tire) | 8.2m (2 wheel steer) 4.9m (4 wheel steer) |

●Engine

| | |
|---------------------|--|
| Model | Mitsubishi 6M60-TLE3A |
| Type | 4 cycle, 6 cylinders, water cooled, direct injection turbo-charged diesel engine with intercooling |
| Piston displacement | 7.545L |
| Max. power | 200kW at 2,600min ⁻¹ |
| Max. torque | 785N·m at 1,400min ⁻¹ |

Fuel due to KATO's recommendation only

●Equipment and structure

| | |
|--------------------|---|
| Drive system | 4x2 / 4x4 |
| Torque converter | Engine mounted 3 elements 1 stage (with lock up clutch) |
| Transmission | Remote mounted full automatic |
| Number of speeds | 4 forward & 1 reverse speed (with HI - Low selector) |
| Axles | Front Planetary, drive/steer type |
| | Rear Planetary, drive/steer type |
| Suspension | Front & Rear Taper - leaf spring Hydraulic locking device with shock absorber |
| | Service Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit) |
| Brake system | Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type |
| | Auxiliary Exhaust brake |
| Steering | Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system) |
| Tire size | Front 385 / 95 R25 170E ROAD |
| | Rear 385 / 95 R25 170E ROAD |
| Fuel tank capacity | 300 L |
| Batteries | (12V-120AH) × 2 |

●Safety devices

| | |
|--|---|
| | Emergency steering device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Air filter service warning device |
|--|---|

●Standard equipment

| | |
|--|--------------------------------|
| | Centralized lubricating system |
|--|--------------------------------|

●Optional equipment

| | |
|--|-------------------|
| | Yellow rev. light |
|--|-------------------|



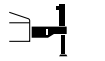
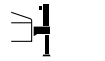

■GENERAL Dimensions

| | |
|--------------------|----------------------------------|
| Overall length | 11,360mm |
| Overall width | 2,620mm |
| Overall height | 3,475mm |
| Wheel base | 3,650mm |
| Treads | Front 2,170mm |
| | Rear 2,170mm |
| Passenger capacity | One person |
| Gross vehicle mass | Gross weight approx. 26,990kg |
| | Front weight approx. 13,000kg |
| | Rear weight approx. 13,990kg |

- Stow the hooks in place before traveling.
- Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.
- KATO products and specifications are subject to improvements and changes without notice.




RATED LIFTING CAPACITY

9.35m — 30.5m Boom

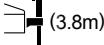
| |  (6.6m) | | | |  (6.0m) | | | |  (5.0m) | | | |  (3.8m) | | | |  (blocked on vertical cylinders) | | | |
|------------------------|---|---------------|----------------|---------------|---|---------------|----------------|---------------|---|---------------|----------------|---------------|---|---------------|----------------|---------------|--|---------------|----------------|---------------|
| Working radius (m) | Outriggers fully extended (360° full range) | | | | Outriggers intermediately extended (over side) | | | | Outriggers intermediately extended (over side) | | | | Outriggers intermediately extended (over side) | | | | Outriggers completely retracted (over side) | | | |
| | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom | 9.35m Boom | 16.4m Boom | 23.45m Boom | 30.5m Boom |
| 2.5 | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 12.00 | 10.35 | 9.10 | |
| 3.0 | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 30.00* | 19.00 | 12.50 | | 26.00 | 18.90 | 12.50 | | 11.15 | 8.25 | 7.50 | |
| 3.5 | 27.20* | 19.00 | 12.50 | 7.50 | 27.20* | 19.00 | 12.50 | 7.50 | 27.20* | 19.00 | 12.50 | 7.50 | 20.20 | 15.20 | 12.50 | 7.50 | 9.00 | 6.75 | 6.30 | 5.50 |
| 4.0 | 23.00 | 19.00 | 12.50 | 7.50 | 23.00 | 19.00 | 12.50 | 7.50 | 23.00 | 19.00 | 12.50 | 7.50 | 16.35 | 12.60 | 11.40 | 7.50 | 7.45 | 5.60 | 5.35 | 5.15 |
| 4.5 | 21.20 | 18.65 | 12.50 | 7.50 | 21.20 | 18.65 | 12.50 | 7.50 | 21.20 | 17.30 | 12.50 | 7.50 | 13.65 | 10.65 | 9.85 | 7.50 | 6.25 | 4.65 | 4.60 | 4.50 |
| 5.0 | 19.40 | 17.30 | 12.50 | 7.50 | 19.40 | 17.30 | 12.50 | 7.50 | 18.85 | 14.70 | 12.50 | 7.50 | 11.40 | 9.10 | 8.60 | 7.50 | 5.30 | 3.95 | 3.95 | 3.95 |
| 5.5 | 17.80 | 16.15 | 12.50 | 7.50 | 17.80 | 16.15 | 12.50 | 7.50 | 15.65 | 12.65 | 11.80 | 7.50 | 9.50 | 7.90 | 7.55 | 7.25 | 4.50 | 3.30 | 3.45 | 3.45 |
| 6.0 | 16.30 | 15.15 | 12.25 | 7.50 | 16.30 | 15.15 | 12.25 | 7.50 | 13.15 | 11.05 | 10.45 | 7.50 | 8.10 | 6.90 | 6.70 | 6.50 | 3.85 | 2.80 | 3.00 | 3.05 |
| 6.5 | 15.10 | 14.25 | 11.50 | 7.50 | 15.10 | 13.50 | 11.50 | 7.50 | 11.25 | 9.75 | 9.35 | 7.50 | 7.05 | 6.05 | 6.00 | 5.85 | 3.30 | 2.35 | 2.60 | 2.70 |
| 7.0 | | 13.45 | 10.80 | 7.50 | | 12.00 | 10.80 | 7.50 | | 8.70 | 8.40 | 7.50 | | 5.35 | 5.40 | 5.35 | | 2.00 | 2.25 | 2.40 |
| 7.5 | | 12.70 | 10.20 | 7.50 | | 10.75 | 10.20 | 7.50 | | 7.75 | 7.60 | 7.40 | | 4.75 | 4.85 | 4.85 | | 1.65 | 1.95 | 2.15 |
| 8.0 | | 11.80 | 9.65 | 7.50 | | 9.65 | 9.35 | 7.50 | | 7.00 | 6.95 | 6.80 | | 4.25 | 4.40 | 4.45 | | 1.40 | 1.70 | 1.90 |
| 9.0 | | 9.70 | 8.65 | 6.80 | | 7.95 | 7.85 | 6.80 | | 5.75 | 5.80 | 5.75 | | 3.40 | 3.60 | 3.70 | | 0.90 | 1.25 | 1.50 |
| 10.0 | | 7.90 | 7.85 | 6.15 | | 6.50 | 6.70 | 6.15 | | 4.70 | 4.90 | 4.95 | | 2.75 | 3.00 | 3.15 | | 0.55 | 0.90 | 1.15 |
| 11.0 | | 6.50 | 6.90 | 5.60 | | 5.35 | 5.75 | 5.60 | | 3.85 | 4.20 | 4.30 | | 2.20 | 2.50 | 2.65 | | | 0.60 | 0.85 |
| 12.0 | | 5.45 | 6.00 | 5.10 | | 4.50 | 5.00 | 5.05 | | 3.15 | 3.60 | 3.75 | | 1.75 | 2.10 | 2.30 | | | | 0.65 |
| 13.0 | | 4.55 | 5.20 | 4.70 | | 3.75 | 4.35 | 4.50 | | 2.60 | 3.10 | 3.30 | | 1.35 | 1.70 | 1.95 | | | | |
| 13.5 | | 4.20 | 4.85 | 4.50 | | 3.45 | 4.05 | 4.20 | | 2.40 | 2.90 | 3.05 | | 1.20 | 1.55 | 1.80 | | | | |
| 14.0 | | | 4.50 | 4.35 | | | 3.75 | 4.00 | | | 2.70 | 2.90 | | | 1.40 | 1.65 | | | | |
| 15.0 | | | 3.90 | 4.05 | | | 3.25 | 3.55 | | | 2.30 | 2.55 | | | 1.15 | 1.40 | | | | |
| 16.0 | | | 3.45 | 3.75 | | | 2.85 | 3.20 | | | 2.00 | 2.25 | | | 0.95 | 1.15 | | | | |
| 17.0 | | | 3.00 | 3.35 | | | 2.50 | 2.85 | | | 1.70 | 1.95 | | | 0.75 | 1.00 | | | | |
| 18.0 | | | 2.65 | 2.95 | | | 2.15 | 2.50 | | | 1.45 | 1.75 | | | 0.60 | 0.80 | | | | |
| 19.0 | | | 2.35 | 2.65 | | | 1.90 | 2.20 | | | 1.20 | 1.55 | | | | 0.65 | | | | |
| 20.0 | | | 2.05 | 2.35 | | | 1.65 | 2.00 | | | 1.05 | 1.35 | | | | 0.50 | | | | |
| 20.5 | | | 1.95 | 2.25 | | | 1.55 | 1.85 | | | 0.95 | 1.25 | | | | | | | | |
| 21.0 | | | | 2.10 | | | | 1.75 | | | | 1.15 | | | | | | | | |
| 22.0 | | | | 1.90 | | | | 1.55 | | | | 1.00 | | | | | | | | |
| 24.0 | | | | 1.50 | | | | 1.20 | | | | 0.70 | | | | | | | | |
| 26.0 | | | | 1.20 | | | | 0.95 | | | | 0.50 | | | | | | | | |
| 27.9 | | | | 0.95 | | | | 0.70 | | | | | | | | | | | | |
| Standard hook | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | | for 30 ton | | | |
| Hook mass | 250kg | | | | 250kg | | | | 250kg | | | | 250kg | | | | 250kg | | | |
| Parts of line | 9°/7 | 6 | 4 | 4 | 9°/7 | 6 | 4 | 4 | 9°/7 | 6 | 4 | 4 | 9°/7 | 6 | 4 | 4 | 7 | 6 | 4 | 4 |
| Critical boom angle | — | — | — | — | — | — | — | — | — | — | — | 20° | — | — | 28° | 41° | — | 40° | 55° | 62° |

(Unit : Metric ton)

30.5m Boom+7.9m Jib


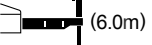
|  (6.6m) | | | | | | |  (6.0m) | | | | | | |  (5.0m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|------------|------|
| Outriggers fully extended (360° full range) | | | | | | | Outriggers intermediately extended (over side) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | |
| 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 | 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 | 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 |
| 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 | 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 | 75.0 | 10.5 | 3.50 | 12.6 | 2.40 | 14.1 | 1.70 |
| 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 | 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 | 73.0 | 11.9 | 3.35 | 13.9 | 2.40 | 15.3 | 1.69 |
| 71.0 | 13.2 | 3.11 | 15.2 | 2.32 | 16.5 | 1.66 | 71.0 | 13.2 | 3.11 | 15.3 | 2.32 | 16.5 | 1.66 | 72.0 | 12.5 | 3.23 | 14.6 | 2.37 | 15.9 | 1.68 |
| 69.0 | 14.5 | 2.89 | 16.3 | 2.19 | 17.6 | 1.63 | 69.0 | 14.5 | 2.89 | 16.3 | 2.19 | 17.6 | 1.63 | 71.0 | 13.1 | 2.98 | 15.3 | 2.32 | 16.5 | 1.66 |
| 65.0 | 16.9 | 2.45 | 18.7 | 1.94 | 19.8 | 1.57 | 65.0 | 16.9 | 2.45 | 18.7 | 1.94 | 19.8 | 1.57 | 69.0 | 14.3 | 2.55 | 16.3 | 2.19 | 17.6 | 1.63 |
| 61.0 | 19.2 | 2.12 | 20.9 | 1.73 | 21.8 | 1.53 | 64.0 | 17.5 | 2.35 | 19.3 | 1.88 | 20.3 | 1.56 | 66.0 | 16.3 | 1.92 | 18.0 | 1.76 | 19.3 | 1.58 |
| 58.0 | 20.8 | 1.92 | 22.5 | 1.60 | 23.3 | 1.47 | 63.0 | 18.1 | 2.27 | 19.8 | 1.83 | 20.8 | 1.55 | 61.0 | 18.7 | 1.35 | 20.6 | 1.20 | 21.7 | 1.15 |
| 55.0 | 22.4 | 1.68 | 24.0 | 1.49 | 24.6 | 1.39 | 61.0 | 19.1 | 2.01 | 20.9 | 1.73 | 21.8 | 1.53 | 55.0 | 21.8 | 0.81 | 23.4 | 0.74 | 24.3 | 0.71 |
| 54.0 | 22.8 | 1.60 | 24.4 | 1.46 | 25.0 | 1.37 | 59.0 | 20.2 | 1.78 | 21.9 | 1.62 | 22.8 | 1.50 | 53.0 | 22.8 | 0.67 | 24.4 | 0.60 | 25.1 | 0.59 |
| 50.0 | 24.8 | 1.26 | 26.2 | 1.16 | 26.6 | 1.16 | 55.0 | 22.2 | 1.37 | 23.7 | 1.29 | 24.5 | 1.25 | 51.0 | 23.8 | 0.53 | 25.3 | 0.50 | 26.0 | 0.47 |
| 46.0 | 26.6 | 0.99 | 27.8 | 0.93 | 28.0 | 0.93 | 46.0 | 26.4 | 0.75 | 27.7 | 0.71 | 27.9 | 0.71 | Standard hook for 4.0 ton | | | | | | |
| 40.0 | 28.9 | 0.69 | 29.8 | 0.68 | | | 45.0 | 26.8 | 0.70 | 28.0 | 0.67 | | | Hook mass 80kg | | | | | | |
| 34.0 | 31.0 | 0.46 | 31.7 | 0.45 | | | 40.0 | 28.8 | 0.48 | 29.8 | 0.46 | | | Parts of line 1 | | | | | | |
| Standard hook | for 4.0 ton | | | | | | Standard hook | for 4.0 ton | | | | | | Critical boom angle | 49° | | 49° | | 49° | |
| Hook mass | 80kg | | | | | | Hook mass | 80kg | | | | | | | | | | | | |
| Parts of line | 1 | | | | | | Parts of line | 1 | | | | | | | | | | | | |
| Critical boom angle | 32° | | 32° | | 44° | | Critical boom angle | 38° | | 38° | | 44° | | | | | | | | |

30.5m Boom+7.9m Jib

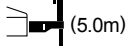
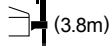
|  (3.8m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 4.5 | 3.50 | 7.2 | 2.40 | 9.1 | 1.70 |
| 78.0 | 8.3 | 3.50 | 10.6 | 2.40 | 12.2 | 1.70 |
| 76.0 | 9.6 | 3.13 | 11.9 | 2.40 | 13.5 | 1.70 |
| 73.0 | 11.4 | 2.31 | 13.8 | 1.87 | 15.3 | 1.69 |
| 71.0 | 12.6 | 1.87 | 14.9 | 1.55 | 16.4 | 1.41 |
| 67.0 | 14.9 | 1.22 | 17.1 | 1.03 | 18.3 | 0.97 |
| 61.0 | 18.3 | 0.56 | 20.2 | 0.48 | 21.3 | 0.45 |
| Standard hook for 4.0 ton | | | | | | |
| Hook mass 80kg | | | | | | |
| Parts of line 1 | | | | | | |
| Critical boom angle 59° 59° 59° | | | | | | |

611-75102000

30.5m Boom+13.0m Jib

|  (6.6m) | | | | | | |  (6.0m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers fully extended (360° full range) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 | 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 |
| 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 | 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 |
| 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 | 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 |
| 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 | 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 |
| 65.0 | 19.6 | 1.61 | 22.7 | 1.01 | 24.5 | 0.80 | 65.0 | 19.6 | 1.61 | 22.7 | 1.01 | 24.5 | 0.80 |
| 61.0 | 22.3 | 1.42 | 25.1 | 0.94 | 26.7 | 0.78 | 61.0 | 22.3 | 1.42 | 25.1 | 0.94 | 26.7 | 0.78 |
| 60.0 | 23.0 | 1.38 | 25.7 | 0.93 | 27.2 | 0.78 | 60.0 | 23.0 | 1.38 | 25.7 | 0.93 | 27.2 | 0.78 |
| 53.0 | 27.2 | 1.19 | 29.5 | 0.87 | 30.4 | 0.77 | 58.0 | 24.2 | 1.31 | 26.8 | 0.91 | 28.1 | 0.78 |
| 49.0 | 29.3 | 0.94 | 31.4 | 0.84 | 32.0 | 0.77 | 54.0 | 26.5 | 1.01 | 28.9 | 0.88 | 30.0 | 0.77 |
| 47.0 | 30.3 | 0.83 | 32.3 | 0.76 | 32.8 | 0.77 | 52.0 | 27.5 | 0.89 | 29.9 | 0.82 | 30.9 | 0.77 |
| 46.0 | 30.7 | 0.78 | 32.7 | 0.72 | 33.1 | 0.72 | 50.0 | 28.5 | 0.78 | 30.8 | 0.72 | 31.7 | 0.70 |
| 42.0 | 32.5 | 0.61 | 34.2 | 0.57 | | | 46.0 | 30.6 | 0.58 | 32.5 | 0.55 | 33.0 | 0.55 |
| 39.0 | 33.8 | 0.49 | 35.3 | 0.47 | | | 44.0 | 31.4 | 0.51 | 33.3 | 0.47 | | |
| Standard hook for 4.0 ton | | | | | | | Standard hook for 4.0 ton | | | | | | |
| Hook mass 80kg | | | | | | | Hook mass 80kg | | | | | | |
| Parts of line 1 | | | | | | | Parts of line 1 | | | | | | |
| Critical boom angle 37° 37° 44° | | | | | | | Critical boom angle 42° 42° 44° | | | | | | |



30.5m Boom+13.0m Jib

|  (5.0m) | | | | | | |  (3.8m) | | | | | | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|--|--------------------|------------|--------------------|------------|--------------------|------------|
| Outriggers intermediately extended (over side) | | | | | | | Outriggers intermediately extended (over side) | | | | | | |
| Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | | Boom angle (°) | Offset 5° | | Offset 25° | | Offset 45° | |
| | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) | Working radius (m) | Load (ton) |
| 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 | 83.0 | 5.6 | 2.20 | 10.0 | 1.25 | 13.2 | 0.85 |
| 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 | 77.0 | 10.8 | 2.20 | 14.5 | 1.25 | 17.2 | 0.85 |
| 73.0 | 14.2 | 2.18 | 17.4 | 1.17 | 19.8 | 0.85 | 76.0 | 11.6 | 2.20 | 15.2 | 1.24 | 17.8 | 0.85 |
| 71.0 | 15.6 | 2.02 | 18.8 | 1.12 | 21.1 | 0.84 | 71.0 | 15.0 | 1.47 | 18.8 | 1.12 | 21.1 | 0.84 |
| 68.0 | 17.6 | 1.79 | 20.7 | 1.07 | 22.8 | 0.82 | 69.0 | 16.4 | 1.17 | 20.0 | 0.93 | 22.2 | 0.82 |
| 62.0 | 21.4 | 1.15 | 24.5 | 0.96 | 26.1 | 0.79 | 67.0 | 17.7 | 0.93 | 21.1 | 0.75 | 23.3 | 0.68 |
| 60.0 | 22.5 | 0.97 | 25.5 | 0.84 | 27.2 | 0.78 | 64.0 | 19.6 | 0.64 | 22.9 | 0.51 | 24.8 | 0.47 |
| 58.0 | 23.7 | 0.82 | 26.6 | 0.71 | 28.1 | 0.68 | Standard hook for 4.0 ton | | | | | | |
| 54.0 | 26.0 | 0.55 | 28.6 | 0.49 | 29.8 | 0.48 | Hook mass 80kg | | | | | | |
| Standard hook for 4.0 ton | | | | | | | Parts of line 1 | | | | | | |
| Hook mass 80kg | | | | | | | Critical boom angle 62° 62° 62° | | | | | | |
| Parts of line 1 | | | | | | | | | | | | | |
| Critical boom angle 52° 52° 52° | | | | | | | | | | | | | |

611-75103000

■ When the outriggers are not used

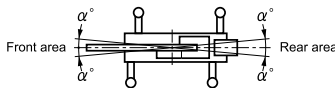
(Unit : Metric ton)

|  | | | | | | |  | | | | | | |
|---|----------------------|-----------------|------------|-----------------|-------------|-----------------|--|-----------------|------------|-----------------|-------------|-----------------|---------------------|
| Working radius (m) | Stationary on rubber | | | | | | Pick & carry (less than 2 km/h) | | | | | | Working radius (m) |
| | 9.35m Boom | | 16.4m Boom | | 23.45m Boom | | 9.35m Boom | | 16.4m Boom | | 23.45m Boom | | |
| | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | Over front | 360° full range | |
| 3.0 | 13.50 | 8.10 | 9.00 | 6.80 | | | 10.00 | 6.10 | 6.60 | 5.10 | | | 3.0 |
| 3.5 | 12.00 | 6.80 | 9.00 | 5.60 | 6.50 | 4.50 | 8.95 | 5.10 | 6.60 | 4.90 | 5.50 | 3.20 | 3.5 |
| 4.0 | 10.75 | 5.80 | 9.00 | 4.65 | 6.50 | 4.45 | 8.00 | 4.30 | 6.60 | 4.10 | 5.50 | 3.20 | 4.0 |
| 4.5 | 9.65 | 5.00 | 9.00 | 3.85 | 6.50 | 3.80 | 7.10 | 3.65 | 6.60 | 3.45 | 5.50 | 3.20 | 4.5 |
| 5.0 | 8.70 | 4.30 | 8.20 | 3.20 | 6.50 | 3.25 | 6.40 | 3.15 | 6.00 | 2.90 | 5.50 | 2.95 | 5.0 |
| 5.5 | 7.80 | 3.60 | 7.40 | 2.70 | 6.05 | 2.80 | 5.75 | 2.65 | 5.40 | 2.40 | 5.15 | 2.55 | 5.5 |
| 6.0 | 7.00 | 3.00 | 6.60 | 2.25 | 5.65 | 2.45 | 5.20 | 2.25 | 5.00 | 1.95 | 4.80 | 2.20 | 6.0 |
| 6.5 | 6.25 | 2.50 | 5.90 | 1.85 | 5.25 | 2.10 | 4.70 | 1.90 | 4.45 | 1.60 | 4.45 | 1.90 | 6.5 |
| 7.0 | | | 5.20 | 1.55 | 4.85 | 1.80 | | | 3.90 | 1.30 | 4.15 | 1.60 | 7.0 |
| 8.0 | | | 4.00 | 1.00 | 4.10 | 1.30 | | | 3.00 | 0.80 | 3.45 | 1.15 | 8.0 |
| 9.0 | | | 3.15 | 0.60 | 3.50 | 0.95 | | | 2.40 | | 2.80 | 0.80 | 9.0 |
| 10.0 | | | 2.50 | | 3.00 | 0.60 | | | 1.80 | | 2.30 | 0.50 | 10.0 |
| 11.0 | | | 2.00 | | 2.50 | | | | 1.30 | | 1.90 | | 11.0 |
| 12.0 | | | 1.60 | | 2.10 | | | | 1.00 | | 1.55 | | 12.0 |
| 13.0 | | | 1.25 | | 1.75 | | | | 0.75 | | 1.25 | | 13.0 |
| 14.0 | | | | | 1.45 | | | | | | 1.00 | | 14.0 |
| 15.0 | | | | | 1.20 | | | | | | 0.75 | | 15.0 |
| 16.0 | | | | | 0.95 | | | | | | 0.55 | | 16.0 |
| 17.0 | | | | | 0.75 | | | | | | | | 17.0 |
| 18.0 | | | | | 0.55 | | | | | | | | 18.0 |
| Standard hook | for 30 ton | | | | | | for 30 ton | | | | | | Standard hook |
| Hook mass | 250kg | | | | | | 250kg | | | | | | Hook mass |
| Parts of line | 4 | | | | | | 4 | | | | | | Parts of line |
| Critical boom angle | — | — | — | 45° | 29° | 59° | — | — | — | 51° | 38° | 58° | Critical boom angle |

■ Notes for the rated lifting capacity chart

■ When the outriggers are used

1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation. [30 ton hook (mass: 250kg), 4 ton hook (mass: 80kg)]
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
3. The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The jib working radius is based on the jib mounted on the end of the 30.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
5. Do not operate the jib when the outriggers are completely retracted.
6. The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according the rated lifting capacity chart.
Use the rated lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.

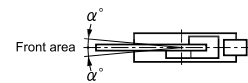


| Outrigger extension status | Intermediate extension (6.0m) | Intermediate extension (5.0m) | Intermediate extension (3.8m) | Full retraction |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------|
| Area α° | 35 | 30 | 20 | 3 |

7. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
[The hook for use with the rooster sheave is the 4 ton hook (mass: 80kg) with one part of line.]
8. If the boom length, boom angle and/or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
9. If you are working with the boom while the jib is rigged, subtract 2.2 ton plus the mass of all attached hook, slings etc. to the boom from the each rated lifting capacity of the boom, with an upper limit of 14 ton.
Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are retracted.
10. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
11. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
12. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
13. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

■ When the outriggers are not used

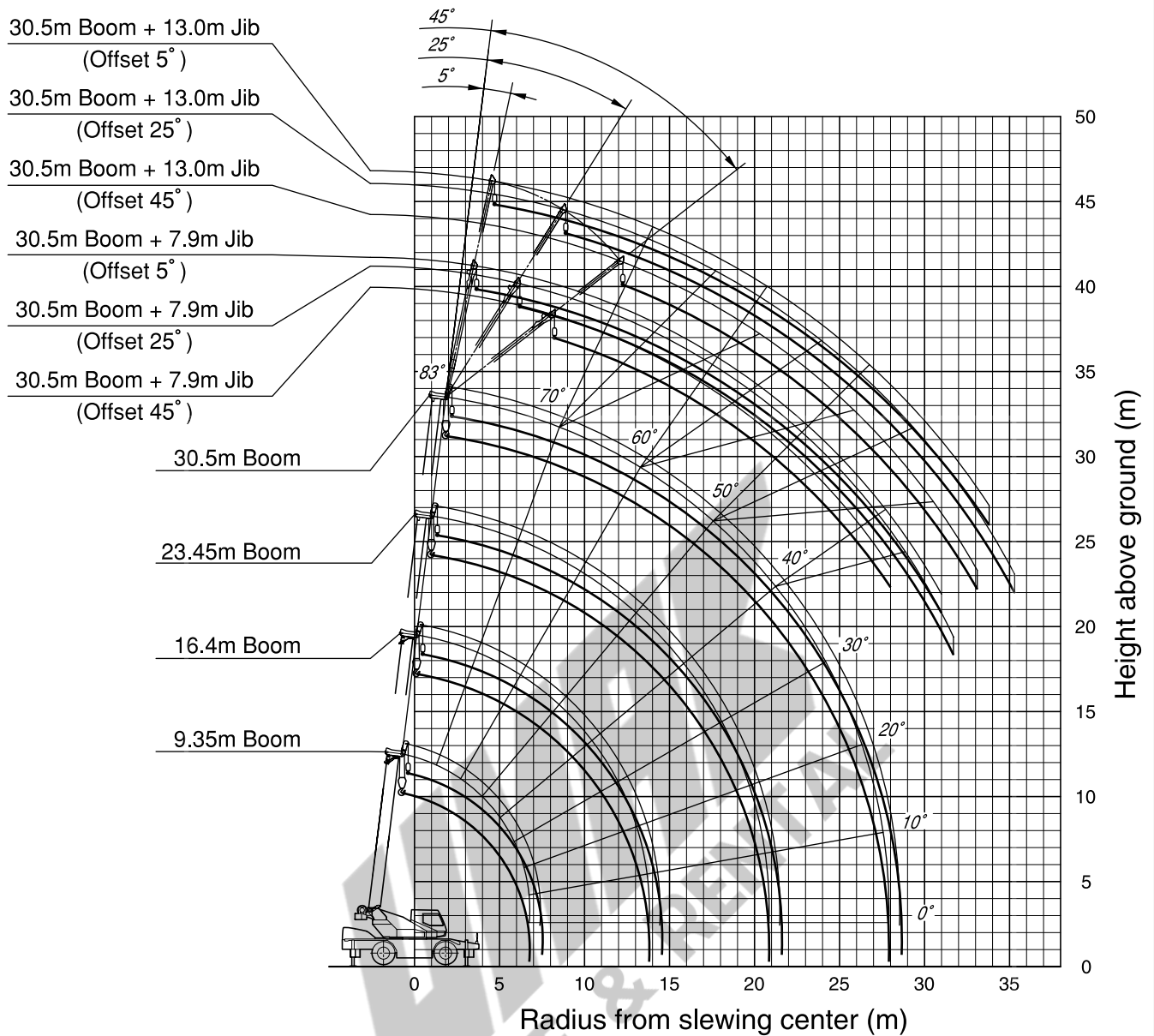
1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
[Rated tire pressure: 900kPa (9.0kgf/cm²)]
3. The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The rated lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.



| Crane operation | Stationary crane-on-rubber operation | Pick and carry operation |
|---------------------|--------------------------------------|--------------------------|
| Area α° | 1 | 1 |

5. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
[The hook for use with the rooster shave is the 4 ton hook (mass: 80kg) with one part of line.]
6. Do not work with the jib or with a boom length of more than 23.45m.
7. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
8. For pick and carry operation, the super-slow speed switch must be switched to "ON" and the shift lever set to speed 1.
9. For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.
Take particular care to avoid sharp turns, sudden starts and stops.
10. Never operate the crane during pick and carry operation. The slewing brake must be applied.
11. If the boom length or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
12. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
13. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
14. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
15. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

WORKING RANGE

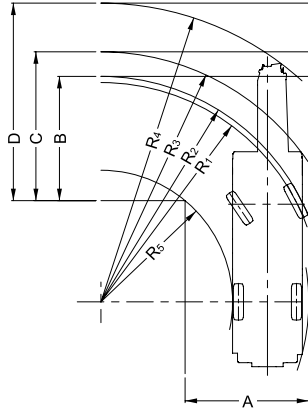


Note:

1. This diagram does not include deflection of Boom and Fly jib.
2. The outriggers are fully extended.

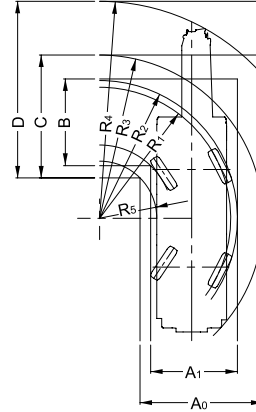
■ Minimum path width

●Left turn in two-wheel steering mode



- $R_1=8.20\text{m}$
(Minimum turning radius)
 - $R_2=8.40\text{m}$
(Turning radius of extremely outer tyre)
 - $R_3=9.35\text{m}$
(Chassis turning radius)
 - $R_4=11.17\text{m}$
(Boom end turning radius)
 - $R_5=4.92\text{m}$
(Turning radius extremely chassis inner)
- $A=4.63\text{m}$ (Width of entrance)
 - $B=4.63\text{m}$ (Width of wheel exit)
 - $C=5.57\text{m}$ (Width of chassis exit)
 - $D=7.39\text{m}$ (Width of exit at end of boom)

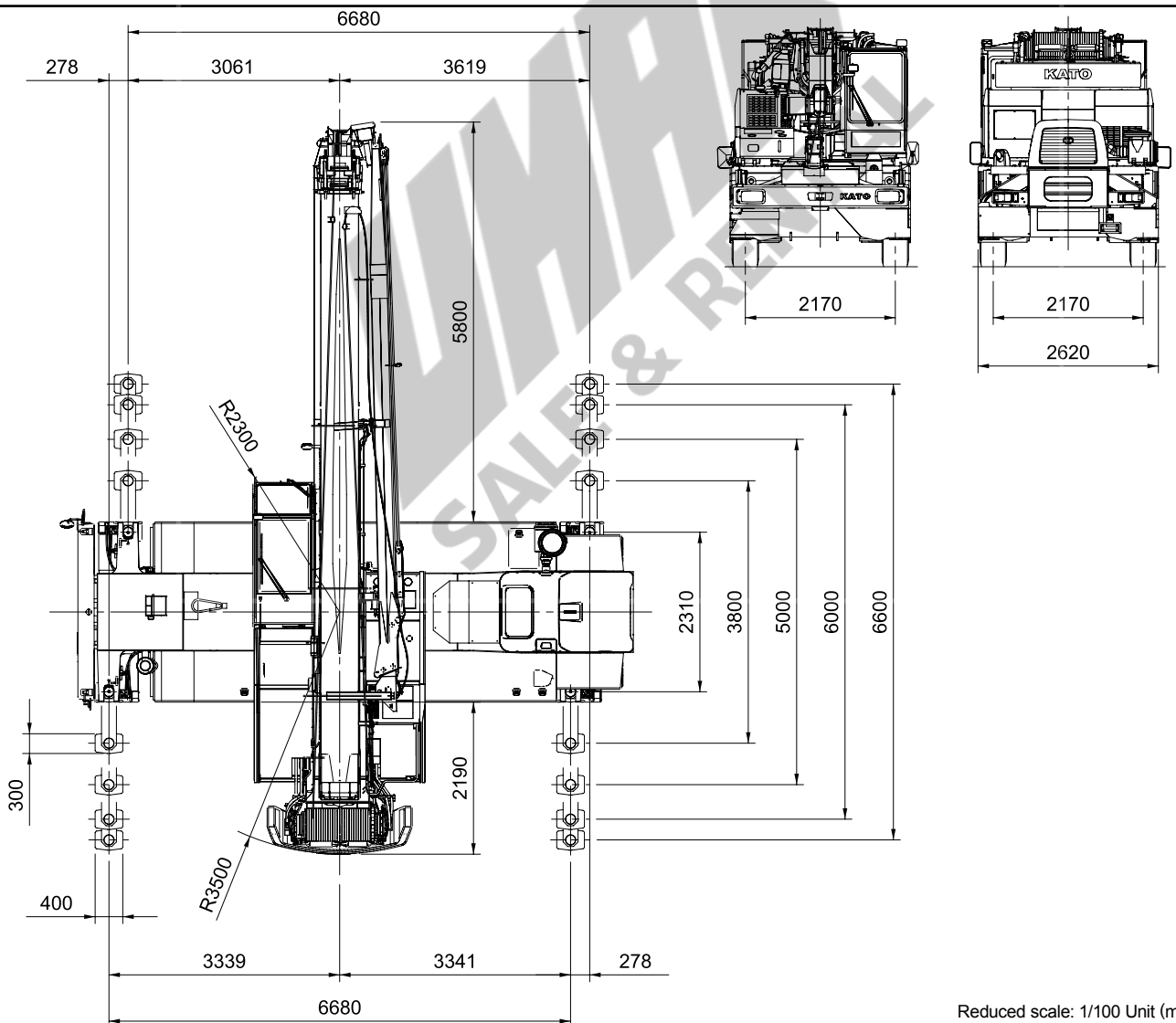
●Left turn in 4-wheel steering mode



- $R_1=4.90\text{m}$
(Minimum turning radius)
- $R_2=5.10\text{m}$
(Turning radius of
extremely outer tyre)
- $R_3=6.10\text{m}$
(Chassis turning radius)
- $R_4=8.12\text{m}$
(Boom end turning radius)
- $R_5=2.10\text{m}$
(Turning radius extremely chassis inner)
- $A_0=4.60\text{m}$ (Width of entrance)
- $A_1=3.25\text{m}$ (Width of wheel entrance)
- $B=3.25\text{m}$ (Width of wheel exit)
- $C=4.60\text{m}$ (Width of chassis exit)
- $D=6.61\text{m}$ (Width of exit at end of boom)

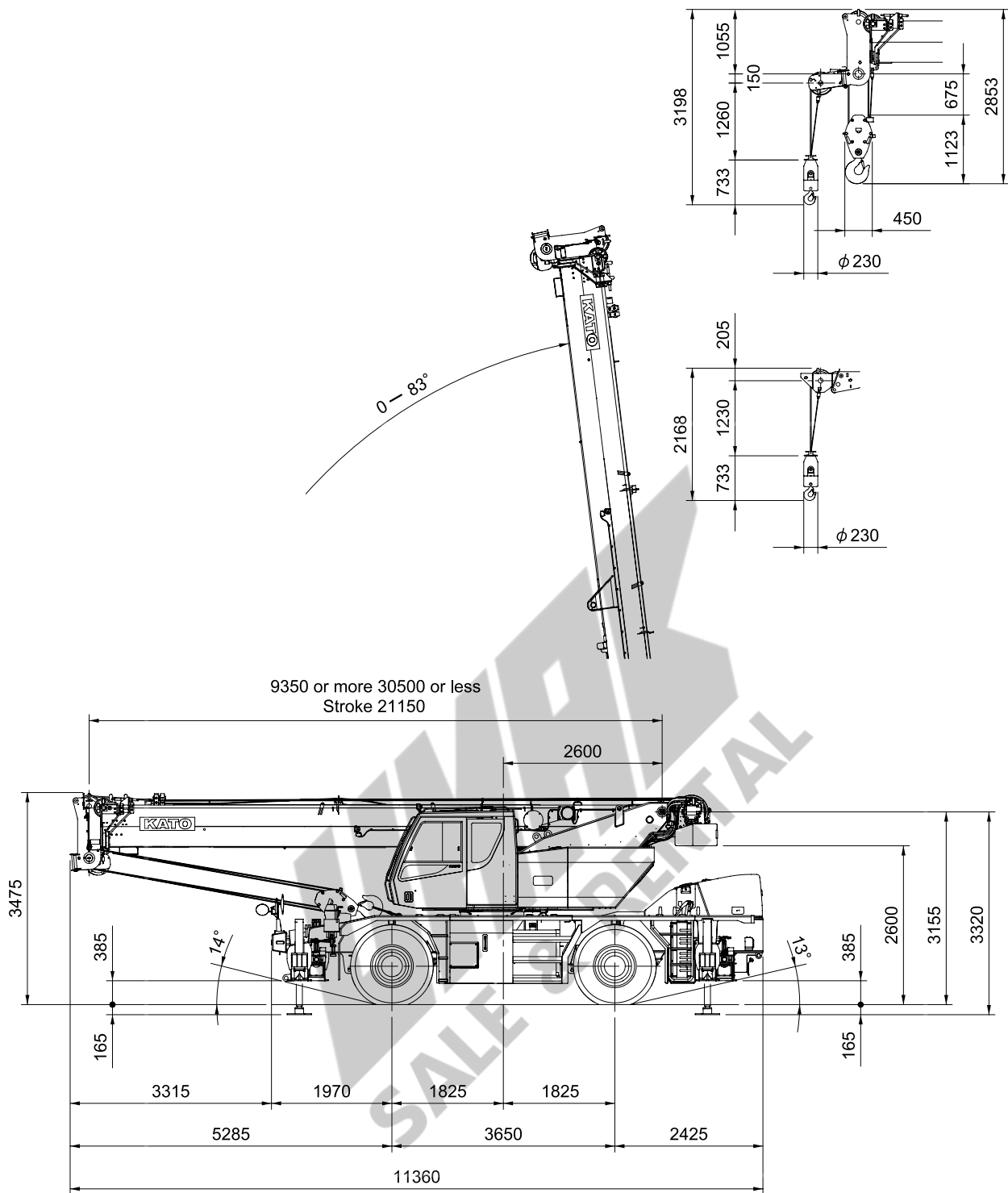
Note: The above values are based on calculations.

■ Overall view



Reduced scale: 1/100 Unit (mm)

Overall view



Reduced scale: 1/100 Unit (mm)

* KATO products and specifications are subject to improvements and changes without notice.

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