

# SR-300L

## **ROUGH TERRAIN CRANE**

## **[SPECIFICATION]**

Maximum rated capacity	d lifting	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	d lifting	31.2m (Boom)							
height		44.8m (jib)							
Hoisting line speed	Main winch	125m / min. (at 4th layer)							
(winch up)	Auxiliary winch	116m / min. (at 3rd layer)							
Hoisting hook speed	Main winch	(Parts of line; 9): 13.8m / min. (at 4th layer)							
(winch up)	Auxiliary winch	(Parts of line; 1): 116m / min. (at 3rd layer)							
Boom derrickin	g angle	0° — 83°							
Boom derrickin	g time	40s / 0° — 83°							
Boom extending	g speed	9.35m — 30.5m / 93s							
Slewing speed		2.9min <sup>-1</sup>							
Tail slewing rad	lius	3,500mm							
<ul><li>Equipmen</li></ul>	t and str	ucture							
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 equip		Two hydrauric cylinders and wire ropes used together							
Boom derrickin equipment	g/lowering	One hydrauric cylinder of direct acting type with pressure- compensated flow control valve							
Winch system Main & Auxiliar	y winches	Driven by axial plunger type hoisting motor through planetary geareduction.  Controlled independently by respective operating lever.							
Slewing equipn	nent	Equipped with automatic brake.  Ball bearing type							
	Туре	Hydraulic H-beam type (with float and vertical cylinder in single unit)							
		6,600mm (Fully extended)							
Outriggers	Fotossion	6,000mm (Intermediately extended)							
	Extension width	5,000mm (Intermediately extended)							
		3,800mm (Intermediately extended)							
	Main	2,310mm (Fully retracded)							
Wire rope for hoisting	winch	Diameter: 16mm×Length: 175m							
	winch	Diameter: 16mm×Length: 95m							
●Hydraulic	equipme								
Oil pump	Hoisting	4 pumps, plunger and gear type  Axial plunger type							
Hydraulic motor	motor Slewing	Axial plunger type							
Control valve	motor	Double acting with integral check and relief valves							
Cylinder		Double acting type							
Oil reservoir ca	pacity	500L							
●Safety dev		1 2222							
		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	equipme	nt  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),							
●Optional e	auipmen	Roof window wiper & washer, Cigarette lighter, Ashtray, Floor ma							
- Optional C	Aarbillel	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   57% (computed at G.V.W. = 26990kg)	CALION	1								
Same ability (Ian θ)   S7% (computed at G.V.W. = 26990kg)	■ CARRIE	ER Spe	ecification							
Minimum turning radius (center of extreme outer tire)  ### Engine    Model	Maximum trave	ling speed	49km/h							
Center of extreme outer tire    Engine	Grade ability (ta	an $\theta$ )	57% (computed at G.V.W. = 26990kg)							
Engine	Minimum turnir	na radius	8.2m (2 wheel steer)							
Model Mitsubishi 6M60-TLE3A Type design and the color of			4.9m (4 wheel steer)							
Model Mitsubishi 6M60-TLE3A Type design and the color of	Engine		·							
Piston displacement Max. power  200kW at 2,600min¹ Max. torque  785N·m at 1,400min¹ Fuel due to KATO's recommendation only  ■Equipment and structure  Drive system  Ax2 / 4x4  Torque converter  Transmission  Remote mounted 3 elements 1 stage (with lock up clutch) Transmission  Remote mounted full automatic  Axles  Front Planetary, drive/steer type Rear  Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber  Front & Taper - leaf spring Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Fund and rear independent circuit)  Steering  Steering  Front and rear independent circuit)  Steering  Front and rear independent circuit)  Fill hydraulic power steering Completely independent circuit and rear steering (with automatic rear wheel steering lock system)  File stank capacity 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, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Rear wheel steering lock system  Optional equipment  Centralized lubricating system  Optional equipment  Yellow rev. light  GENERAL Dimensions  Overall length  11,360mm  Overall height  3,475mm  Wheel base  Front Rear  2,170mm  Rear  2,170mm  Passenger capacity  One person  Gross wehicle Front Rear  Approx. 13,000kg  Approx. 13,000kg  Approx. 13,000kg  Approx. 13,000kg			Mitsubishi 6M60-TLE3A							
Piston displacement Max. power  200kW at 2,600min¹ Max. torque  785N·m at 1,400min¹ Fuel due to KATO's recommendation only  ■Equipment and structure  Drive system  Ax2 / 4x4  Torque converter  Transmission  Remote mounted 3 elements 1 stage (with lock up clutch) Transmission  Remote mounted full automatic  Axles  Front Planetary, drive/steer type Rear  Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber  Front & Taper - leaf spring Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Hydraulic locking device with shock absorber Fund and rear independent circuit)  Steering  Steering  Front and rear independent circuit)  Steering  Front and rear independent circuit)  Fill hydraulic power steering Completely independent circuit and rear steering (with automatic rear wheel steering lock system)  File stank capacity 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, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Rear wheel steering lock system  Optional equipment  Centralized lubricating system  Optional equipment  Yellow rev. light  GENERAL Dimensions  Overall length  11,360mm  Overall height  3,475mm  Wheel base  Front Rear  2,170mm  Rear  2,170mm  Passenger capacity  One person  Gross wehicle Front Rear  Approx. 13,000kg  Approx. 13,000kg  Approx. 13,000kg  Approx. 13,000kg	Time									
Max. power	туре									
Max. torque	Piston displace	ment								
Fuel due to KATO's recommendation only  ● Equipment and structure  Drive system  forque converter  fagine mounted 3 elements fasage (with lock up clutch)  Transmission  Remote mounted full automatic  4 forward & 1 reverse speed (with H1 - Low selector)  Axles  Front Rear  Planetary, drive/steer type  Rear  Planetary, drive/steer type  Taper - leaf spring Hydraulic locking device with shock absorber  Axies system  Parking  Parking  Parking  Parking  Front & Full hydraulic locking device with shock absorber  Axiilary Exhaust brake  Full hydraulic locking avice with shock absorber  Axiilary Exhaust brake  Full hydraulic power steering Completely independent front and rear steering Completely independent front and rear steering (with automatic rear wheel steering lock system)  Tire size  Front 385 / 95 R25 170E ROAD  Tire size  Front 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 coclant level warning device, Air filter service warning device, Air filter service warning device, Air filter service warning device  Standard equipment  Yellow rev. light  GENERAL Dimensions  Overall length  11,360mm  Overall width  2,620mm  Overall height  3,475mm  Wheel base  Front 2,170mm  Rear 2,170mm  Passenger capacity  One person  Gross vehicle  Front weight  Rear  Pappox. 13,900kg  Pappox. 13,900kg  Pappox. 13,900kg  Pappox. 13,900kg  Pappox. 13,900kg	Max. power		200kW at 2,600min <sup>-1</sup>							
● 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 H1 - Low selector)           Axles         Front & Front & Rear         Planetary, drive/steer type           Suspension         Front & Rear         Alf-over hydraulic locking device with shock absorber           Air-over hydraulic locking device with shock absorber         Air-over hydraulic locking device with shock absorber           Air-over hydraulic locking device with shock absorber         Air-over hydraulic locking device with shock absorber           Auxiliary         Exhaust brake           Front         Spring applied, electrically air released parking brake mounted on front axie, internal expanding type           Steering         Front 385 / 95 R25 170E ROAD           Front 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 lock, Engine overspeed alarm, Radiator coolant level warning device, Service brake fluid leak warning device, Service brake fluid leak warning device, Air filter service warning device, Service brake fluid leak warning device, Air filter service warning devic	Max. torque		785N·m at 1,400min <sup>-1</sup>							
Drive system	Fuel due to KA	TO's recom	mendation only							
Torque converter Transmission Remote mounted 3 elements 1 stage (with lock up clutch)  Transmission Remote mounted full automatic  A forward & 1 reverse speed (with HI - Low selector)  Axles Front Planetary, drive/steer type Rear Planetary, drive/steer type  Suspension Front & Taper - leaf spring Hydraulic locking device with shock absorber  Ari-over hydraulic disk brake on 4 wheels (front and rear independent circuit)  Spring applied, electrically air released parking brake mounted on front axie, internal expanding type  Auxiliary Exhaust brake  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 height 3,475mm  Wheel base 3,650mm  Treads Front 2,170mm  Rear 2,170mm  Passenger capacity One person  Gross vehicle Front approx. 13,900kg  approx. 26,990kg  Gross vehicle Front weight Rear  Approx. 13,900kg	Equipmen	t and str	ucture							
Transmission	Drive system		4x2 / 4x4							
Audis	Torque converte	er								
Axles Front Rear Planetary, drive/steer type  Suspension Front & Rear Planetary, drive/steer type  Suspension Front & Rear Planetary, drive/steer type  Suspension Front & Rear Planetary, drive/steer type  Service Arcover hydraulic olisk brake on 4 wheels (front and rear independent circuit)  Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type  Auxiliary Exhaust brake  Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)  Tire size Front 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, Air filter service warning device  Standard equipment  Selber A Dimensions  Overall length  Overall width  2,620mm  Overall width  2,620mm  Overall height  Treads  Front Rear 2,170mm  Rear 2,170mm  Passenger capacity  One person  Gross welicle  Front weight  Front weight  Approx. 13,90kg	Transmission		Remote mounted full automatic							
Axles  Front Planetary, drive/steer type  Suspension  Rear Planetary, drive/steer type  Suspension  Front Rear Planetary, drive/steer type  Service Air-over hydraulic locking device with shock absorber  Air-over hydraulic locking device with shock absorber  Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)  Parking Auxiliary  Exhaust brake  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 width 2,620mm  Overall height 3,475mm  Wheel base 3,650mm  Treads  Front 2,170mm  Passenger capacity One person  Gross weight Rear approx 13,900kg  Air-over Air 900kg  Air-over Air 900kg  Air-over Air 900kg  Air-over Air-	Number of spec	eds								
Axies  Rear Planetary, drive/steer type  Taper - leaf spring Hydraulic locking device with shock absorber  Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)  Brake system Parking Auxiliary Front & Spring applied, electrically air released parking brake mounted on front axie, internal expanding type  Exhaust brake Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)  Tire size Front 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 Front Rear 2,170mm  Passenger capacity One person  Gross weight Rear  Air-over Hydraulic looking device with shock absorber Air-place floor of wheels ffront with and rear steering Air-place floor of the rear independent fire least parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle, internal expanding type  Exhaust parking brake mounted on front axle extering lock system)  Front a		1								
Suspension Front & Rear Air-over hydraulic locking device with shock absorber Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)  Brake system Parking Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type  Auxiliary Exhaust brake 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  Fuel tank capacity 300 L  Batteries (12V-120AH) × 2  Safety devices  Emergency steering device, Rear wheel steering lock system (automatic), Mis-shiffing 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, Air filter service warning device  Standard equipment  Centralized lubricating system  Optional equipment  11,360mm  Overall length 11,360mm  Overall height 3,475mm  Wheel base 3,650mm  Passenger capacity One person  Gross wehicle Front weight approx. 26,990kg  Gross vehicle Mass Air Suspension of the person approx. 13,900kg  Rear approx. 13,900kg  Rear approx. 13,900kg	Axles									
Suspension Rear Hydraulic locking device with shock absorber  Service Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)  Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type  Steering Exhaust brake  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, 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  Passenger capacity One person  Gross weight Rear approx 13,900kg  Rear approx 13,900kg  Rear approx 13,900kg										
Brake system  Parking Spring applied, electrically air released parking brake mounted on front axle, internal expanding type  Auxiliary Exhaust brake  Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)  Front 385 / 95 R25 170E ROAD  Front 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 height 3,475mm  Wheel base 3,650mm  Treads Front 2,170mm  Rear 2,170mm  Passenger capacity One person  Gross wehicle mass Pront 13,900kg  approx. 13,900kg  approx. 13,900kg	Suspension		Hydraulic locking device with shock absorber							
Steering    Fair Number		Service	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)							
Steering    Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)   Tire size	Brake system	Parking								
Completely independent front and rear steering (with automatic rear wheel steering lock system)   Tire size		Auxiliary	Exhaust brake							
Tire size  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, Air filter service warning device  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 weight eight approx. 26,990kg  Gross vehicle mass  Tront weight approx. 13,900kg  Rear approx 13,900kg  Rear approx 13,900kg	Steering		Completely independent front and rear steering							
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, 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 approx. 26,990kg  paper 13,900kg  approx. 13,000kg  Rear approx. 13,900kg	Tine eine	Front	385 / 95 R25 170E ROAD							
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 Optional 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 Rear 2,170mm  Passenger capacity One person  Gross wehicle mass  Gross wehicle mass  Approx. 13,900kg  Rear  Approx. 13,900kg  Rear  Approx. 13,900kg	Tire size	Rear	385 / 95 R25 170E ROAD							
■ 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, Air filter service warning device   Standard equipment	Fuel tank capac	city	300 L							
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, Air filter service warning device Optional equipment    Centralized lubricating system   Optional equipment   Yellow rev. light   GENERAL Dimensions   Overall length   11,360mm     Overall width   2,620mm     Overall width   2,620mm     Overall height   3,475mm     Wheel base   3,650mm     Treads   Front   2,170mm     Rear   2,170mm     Passenger capacity   One person     Gross wehicle   Gross weight     Gross vehicle   Rear   approx. 13,000kg     Rear   approx. 13,900kg     Rear   Approx. 14,900kg     Rear	Batteries		(12V-120AH) ×2							
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, Air filter service warning device, Air filter service warning device  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 Rear 2,170mm  Passenger capacity One person  Gross wehicle mass  Gross wehicle mass Air Sunday Air Sunda	●Safety dev	vices								
Centralized lubricating system  Optional equipment  Yellow rev. light  GENERAL Dimensions  Overall length Overall width Overall height  Wheel base Treads Front Rear 2,170mm Passenger capacity One person  Gross vehicle mass  Centralized lubricating system  Yellow rev. light 11,360mm 0,420mm 0,420mm 0,475mm 0,4			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,							
● 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 Rear approx. 13,900kg	<ul><li>Standard</li></ul>	equipme	nt							
Yellow rev. light			Centralized lubricating system							
GENERAL Dimensions	<ul><li>Optional e</li></ul>	quipmen	nt							
Overall length         11,360mm           Overall width         2,620mm           Overall height         3,475mm           Wheel base         3,650mm           Treads         Front Front Pront Pront Weight Rear           Gross vehicle mass         Gross vehicle Rear Pront Pront Weight Rear Pront			Yellow rev. light							
Overall length         11,360mm           Overall width         2,620mm           Overall height         3,475mm           Wheel base         3,650mm           Treads         Front Front Pront Pront Weight Rear           Gross vehicle mass         Gross vehicle Rear Pront Pront Weight Rear Pront	■GENER	Al Dir	nensions							
Overall width         2,620mm           Overall height         3,475mm           Wheel base         3,650mm           Treads         Front Pront Pront Rear Pront Sweight Pront Weight Rear           Gross vehicle Rear Rear Rear Pront Rear Rear Rear Rear Rear Rear Rear Rear										
Overall height         3,475mm           Wheel base         3,650mm           Treads         Front Pront Front Passenger capacity         2,170mm           Passenger capacity         One person           Gross welight mass         approx. 26,990kg approx. 13,000kg           Rear Rear approx. 13,900kg         approx. 13,900kg										
Wheel base         3,650mm           Treads         Front 2,170mm           Rear         2,170mm           Passenger capacity         One person           Gross weight mass         approx. 26,990kg           approx. 13,000kg         approx. 13,000kg										
Treads         Front Rear         2,170mm           Passenger capacity         One person           Gross wehicle mass         Gross weight Rear         approx. 26,990kg           approx. 13,000kg         approx. 13,900kg										
Treads         Rear         2,170mm           Passenger capacity         One person           Gross weight         approx. 26,990kg           Front weight         approx. 13,000kg           Rear         approx. 13,990kg	***************************************	Front								
Passenger capacity One person  Gross weight approx. 26,990kg  Gross vehicle mass Front weight approx. 13,000kg  Rear approx. 13,990kg	Treads									
Gross vehicle mass	Passenger can									
Gross vehicle mass   weight   approx. 26,990kg   approx. 13,000kg   approx. 13,000kg   Rear   approx. 13,990kg	. accorded out									
mass weight approx. 13,900kg  Rear approx 13,990kg	Gross vehicle	weight								
		weight	approx. 13,000kg							
			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.

Based on ISO 4305

# 9.35m — 30.5m Boom

											-1 -1				1		(1.1.1.		1	\
			6m) 			(6.0				(5.0					3m) 		(blocked on vartical cylinders			
Working		ggers fu full rar	ılly exte nge)	nded			ntermed ver side)	iately			ntermed ver side)				ntermed ver side)		ly Outriggers completely retracted (over side)			
radius (m)	9.35m	16.4m	23.45m	30.5m	9.35m	16.4m	23.45m	30.5m	9.35m	16.4m	23.45m	30.5m	9.35m	16.4m	23.45m	30.5m	9.35m	16.4m	23.45m	
2.5	Boom 30.00*	Boom 19.00	Boom 12.50	Boom	Boom 30.00*	Boom 19.00	Boom 12.50	Boom	Boom 30.00*	Boom 19.00	Boom 12.50	Boom	Boom 30.00*	Boom 19.00	Boom 12.50	Boom	Boom 12.00	Boom 10.35	Boom 9.10	Boom
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				0.95				0.50								
27.9				0.95				0.70												
Standard hook		for 30 ton for 30 ton					for 3	0 ton			for 3	0 ton		for 30 ton						
Hook mass		250	Okg			250	Okg		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)

							30.5	im I	300	m+	-7.9	9m .	Jib							
		_	(6	6.6m)						(6.	0m)					<u> </u>	(5.0	m)		
0	Outriggers fully extended (360° full range)						Outi	riggers ir	ntermedi	ately ext	ended (	over side	)	Outr	riggers ir	termed	iately ext	ended (	over side	e)
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	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.			
40.0	28.9	0.69	29.8	0.68			45.0	26.8	0.70	28.0	0.67			Hook mass			80			
34.0	31.0	0.46	31.7	0.45			40.0	28.8	0.48	29.8	0.46			Parts of line						
Standard hook				0 ton			Standard hook	rd hook for 4.0 ton					Critical boom angle	49	9°	4	9°	4	9°	
Hook mass			80				Hook mass	mass 80kg												
Parts of line				1			Parts of line													
Critical boom angle	3:	2°	3	2°	4	4°	Critical boom angle	3	8°	3	8°	4	4°							

# 30.5m Boom+7.9m Jib

	<u>∃</u> (3.8m)										
Out	Outriggers intermediately extended (over side)										
Boom	Offset 5° Offset 25° Offset 45°										
angle	Working Load Working Load Working Load radius (m) (ton) radius (m) (ton) radius (m) (ton)										
83.0	4.5	3.50	7.2	2.40	9.1	(ton) 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	5	59° 59° 59°									

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# 30.5m Boom+13.0m Jib

		<u> </u>		6.6m)			(6.0m)							
0	utriggers	s fully ex	tended (	360° fu	Il range)		Outriggers intermediately extended (over side)							
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offset 25°		Offset 45°		
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	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	39.0 33.8 0.49 35.3 0.47						44.0	31.4	0.51	33.3	0.47			
Standard hook	Standard hook for 4.0 ton						Standard hook			for 4.	0 ton			
Hook mass	Hook mass 80kg						Hook mass			80	kg			
Parts of line	Parts of line 1						Parts of line				1			
Critical boom angle	3	7°	3	7°	4	4°	Critical boom angle	4:	2°	4:	2°	4	4°	

## 30.5m Boom+13.0m Jib

			(5.0r	m)			(3.8m)								
Outr	riggers ir	itermedi	ately ext	ended (d	over side	)	Outriggers intermediately extended (over side)								
Boom	Offs	et 5°	Offse	Offset 25° Offset 45°		Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°			
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	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	6.0 11.6 2.20			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			80	kg				
Standard hook	Standard hook for 4.0 ton									1	l				
Hook mass	Hook mass 80kg						Critical boom angle	62	2°	62	2°	62	2°		
Parts of line			1	I											
Critical boom angle	angle 52° 52° 52°						]								

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## ■When the outriggers are not used

(Unit : Metric ton)

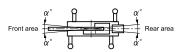
												(0	TIIL . IVIELLIC LOLL)	
										00	<b>5</b>			
		Sta	ationary	on rub	ber			Pick & c	arry (le	ss than	2 km/h	)		
Working	9.35m	Boom	16.4m	Boom	23.45n	n Boom	9.35m	Boom	16.4m	Boom	23.45n	n Boom	Working	
radius (m)	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	radius (m)	
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						
Hook mass	Hook mass 250kg							250kg						
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

- 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.
- 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.
- Do not operate the jib when the outriggers are completely retracted.
- 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.]
- 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 angel 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.

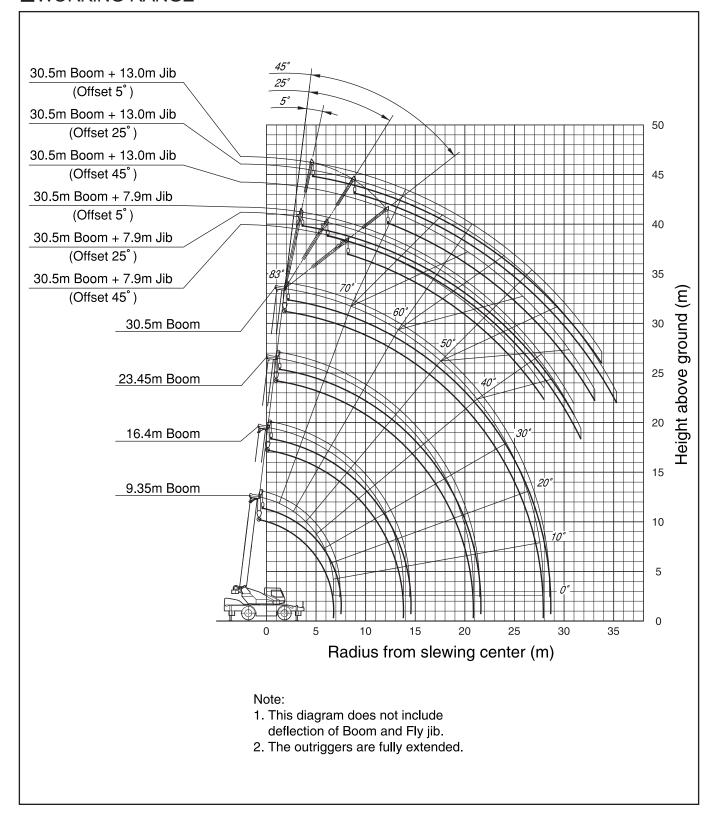
#### ■When the outriggers are not used

- 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)]
- 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.



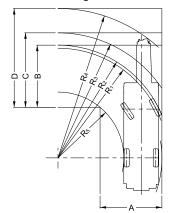
Crane operation	Stationary crane-on-rubber operation	Pick and carry operation
Area α∘	1	1

- 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.
- 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.
- 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 angel 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.



## ■Minimum path width

#### Left turn in two-wheel steering mode



A=4.63m (Width of entrance)

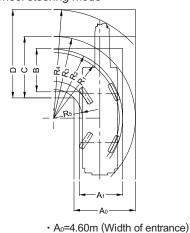
- B=4.63m (Width of wheel exit)

- C=5.57m (Width of chassis exit)

- R₁=8.20m
- (Minimum turning radius)
- R<sub>2</sub>=8.40m (Turning radius of extremely • D=7.39m (Width of exit at end of boom) outer tyre)
- R₃=9.35m
- (Chassis turning radius)
- R<sub>4</sub>=11.17m
- (Boom end turning radius)

(Turning radius extremely chassis inner)

#### ●Left turn in 4-wheel steering mode



- R₁=4.90m
- (Minimum turning radius)
- R<sub>2</sub>=5.10m (Turning radius of extremely outer tyre)
- R₃=6.10m
- (Chassis turning radius)
- R<sub>4</sub>=8.12m
- (Boom end turning radius)
- R₅=2.10m

Note: The above values are based on calculations.

- A<sub>1</sub>=3.25m (Width of wheel entrance)

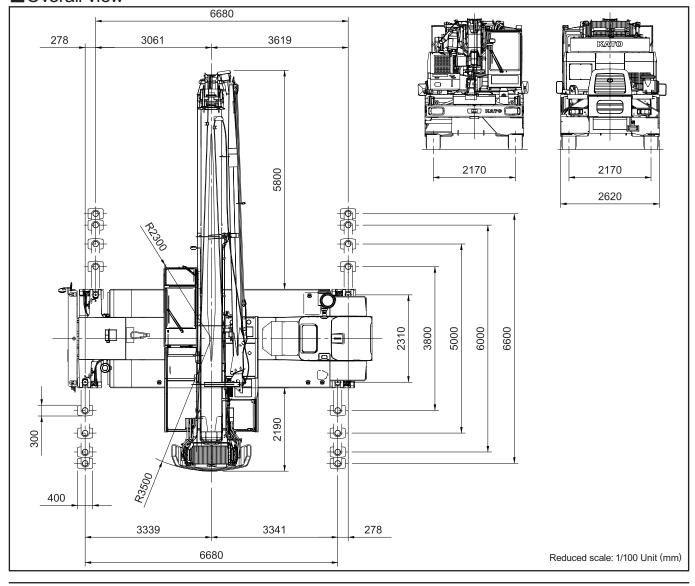
• D =6.61m (Width of exit at end of boom)

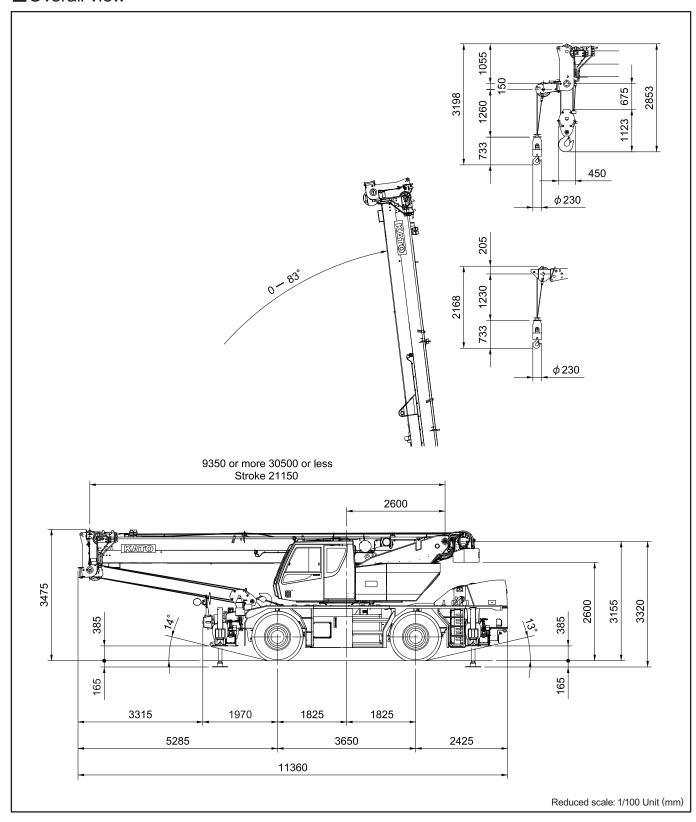
- B =3.25m (Width of wheel exit)

- C =4.60m (Width of chassis exit)

(Turning radius extremely chassis inner)

## ■Overall view





 $^{\star}$  KATO products and specifications are subject to improvements and changes without notice.

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