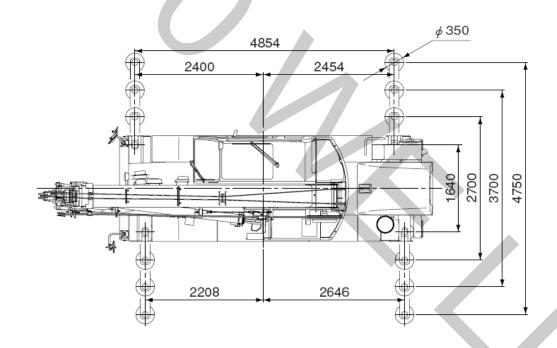
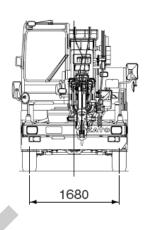
KATO KRM-13H

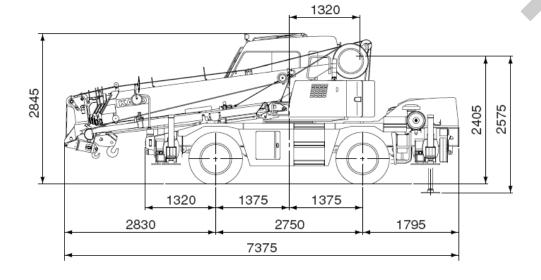
13 TONNE HYDRAULIC SLEW CRANE

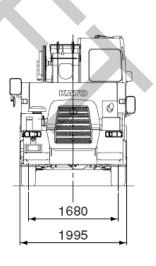
Specification

Height	2.845 m
Length	7.375 m
Width	1.995 m
Regd Weight TARE	13140 kgs











CITYRANGE SUPERBOOM





[SPECIFICATION]

■ CRANE Description		
Description		
		Rough terrain crane with maximum lifting capacity 13 ton
Crane spe	ecification	1
		5.3 m Boom 13,000kg × 1.7 m (Parts of line : 8)
		9.04 m Boom 6,000kg × 4.0 m (Parts of line : 4)
		12.78 m Boom 6,000kg × 4.0 m (Parts of line : 4)
	L Difference	16.52 m Boom 5,000kg × 4.5 m (Parts of line : 4)
Maximum rated capacity	lifting	20.26 m Boom 4,700kg × 4.0 m (Parts of line : 4)
capacity		24.0 m Boom 3,200kg × 5.5 m (Parts of line : 4)
		3.6 m Jib 1,600kg × 75° (Parts of line : 1)
		5.5 m Jib 1,000kg × 70° (Parts of line : 1)
		Rooster 1,800kg (Parts of line : 1)
Boom length		5.3m — 24.0m
Fly jib length		3.6m — 5.5m
Maximum rated	l lifting	24.8m (Boom)
height		30.3m (jib)
Hoisting	Main winch	118m / min. (at 5th layer)
line speed (winch up)	Auxiliary winch	103m / min. (at 3rd layer)
Hoisting hook speed	Main winch	(Parts of line; 8): 14.75m / min. (at 5th layer)
(winch up)	Auxiliary winch	(Parts of line; 1): 103m / min. (at 3rd layer)
High-speed lowering	Main winch	180m / min (at 5th layer)
Rope speed	Auxiliary winch	155m / min (at 3rd layer)
Boom derricking	g angle	$-7.5^{\circ} - 82^{\circ}$
Boom derricking	g time	30s / -7.5° — 82°
Boom extendin	g speed	5.3 — 24.0m / 65s
Slewing speed		2.4min ⁻¹
Tail slewing rad	ius	1,600mm
Equipmen	t and stru	ucture
- 1-1		Box-shaped, 6-section hydraulically telescopic type
Boom type		(the 2nd and 3rd jib sections at the same time, the 4th, 5th and
		jib sections at the same time)
Jib type		2 sections (2nd section of draw-out type)
		Hydraulic stepless tilting type (offset angles 5° — 60°)
Boom extension		Two hydraulic cylinders and wire ropes used together
retraction equip		One budgettie enlieder of direct entire tune with procesure
Boom derricking equipment	g/lowering	One hydraulic cylinder of direct acting type with pressure- compensated flow control valve
equipinent		Two units of Single winch, Differential gear reduction type (built-
Winch system		negative brake) with Automatic brake, High/Low speed switching
Main & Auxiliary	y winches	system and Hydraulic compensated flow control valve.
Slowing oguing	oont	Equipped with Hydraulic motor drive and a planetary gear speed
Slewing equipm	IEIIL	reducer (built-in negative brake)
Slewing bearing	9	Ball bearing type
	Туре	Hydraulic H-beam type (with float and vertical cylinder in single u
		4,750mm (Fully extended)
Outriggers	Extension	4,300mm (Intermediately extended)
Outriggers	width	3,700mm (Intermediately extended)
		2,700mm (Intermediately extended)
		4. C.4.Omeno (Figure 10 and 1)
		1,640mm (Fully retracted)
Wire rope for	Main winch	Diameter: 11.2mm×Length: 132m
	Main winch Auxiliary winch	
hoisting	Auxiliary winch	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m
hoisting Hydraulic	Auxiliary winch	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt
hoisting Hydraulic	Auxiliary winch equipme	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type
hoisting Hydraulic Oil pump	Auxiliary winch	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt
hoisting Hydraulic Oil pump Hydraulic	Auxiliary winch equipment Hoisting motor Slewing	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type
Wire rope for hoisting Hydraulic Oil pump Hydraulic motor	Auxiliary winch equipme	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type
hoisting Hydraulic Oil pump Hydraulic	Auxiliary winch equipment Hoisting motor Slewing	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves
hoisting Hydraulic Oil pump Hydraulic motor Control valve	Auxiliary winch equipment Hoisting motor Slewing	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder	Auxiliary winch equipme Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm),
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for jb derricking/lowering,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for jbd derricking/lowering, Natural lowering prevention unit for jbd derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for jib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for bloom extension/retraction, Natural lowering prevention unit for jb derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device,
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for jb derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warming lamp, Hydraulic oil temperature warning device, Sling rope holding device
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for jib derricking/lowering, Natural lowering prevention device, Drum lock device, Automatic winch brall Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for jib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for jib derricking/lowering, Natural lowering prevention device, Drum lock device, Automatic winch brall Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom devension/retraction, Natural lowering prevention unit for boom devines, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lie (on boom, table and cab)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for jib derricking/lowering, Natural lowering prevention unit for jib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working liq (on boom, table and cab)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for bib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lig (on boom, table and cab)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for bear device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warming lamp, Hydraulic oil temperature warming device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lig (on boom, table and cab)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom extension/retraction, Natural lowering prevention unit for bib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lig (on boom, table and cab)
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipmel Hoisting motor Slewing motor pacity vices	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for jib derricking/lowering, Natural lowering prevention device, Drum lock device, Automatic winch bral Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lig (on boom, table and cab) Tit/telescopic steering wheel, Full-adjustable suspension seat (with Headrest and Armrest), Power window (with Window close reminder switch), Hot & cool box, Intermittent front & roof wipers (with Washer),
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Safety dev	Auxiliary winch equipment Hoisting motor Slewing motor pacity vices equipment s cab	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom devines, Automatic winch brall Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lie (on boom, table and cab) Tilt/telescopic steering wheel, Full-adjustable suspension seat (with Headrest and Armrest), Power window (with Window close reminder switch), Hot & cool box, Intermittent front & roof wipers (with Washer), Lunch table, AM/FM radio with Clock, Cigarette lighter, Step lamp, fire extinguisher, Floor mat
hoisting Hydraulic Oil pump Hydraulic motor Control valve Cylinder Oil reservoir ca Safety dev Standard Operator's	Auxiliary winch equipment Hoisting motor Slewing motor pacity vices equipment s cab	Diameter: 11.2mm×Length: 132m Diameter: 11.2mm×Length: 65m nt Double variable plunger type, gear and plunger type Axial plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 150L ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Working area restriction unit, Outrigger status detector, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom derricking/lowering, Natural lowering prevention unit for boom devines, Automatic winch brall Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device nt Air conditioner, Winch drum turning indication device, Working lie (on boom, table and cab) Tilt/telescopic steering wheel, Full-adjustable suspension seat (with Headrest and Armrest), Power window (with Window close reminder switch), Hot & cool box, Intermittent front & roof wipers (with Washer), Lunch table, AM/FM radio with Clock, Cigarette lighter, Step lamp, fire extinguisher, Floor mat

■ CARRIE	-R	
Carrier sp		
Maximum trave		49km/h
Grade ability	iing speed	$0.56 \text{ (tan } \theta)$
Minimum turnin	a == di	6.5m (2 wheel steer)
(center of extrem		3.92m (4 wheel steer)
● Engine		order (1 miles) electry
Model		Mitsubishi 4M50-TLE3A
-		4 cycle, 4 cylinders, water cooled, direct injection turbo-charged
Туре		diesel engine with intercooling
Piston displace	ment	4.899L
Max. power		129kW at 2,700min ⁻¹
Max. torque		530N·m at 1,600min ⁻¹
● Equipmen	t and stru	
Drive system		Switches between 2 wheel drive (4×2) and 4 wheel drive (4×4)
Torque converte	er	Engine mounted 3 elements 1 stage (with lock up clutch)
Transmission		Remote mounted full automatic
Number of spee	eds	4 forward & 1 reverse speed
Axles	Front	Full floating type, with a two-stage reduction gear
Axies	Rear	Full floating type, with a two-stage reduction gear
Suspension	Front	Taper - leaf spring (hydraulic locking device with shock absorber)
	Rear	Taper - leaf spring (hydraulic locking device with shock absorber)
	Service	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)
		Spring applied, electrically air released parking brake mounted on
Brake system	Parking	front axle, internal expanding type
	Auxiliary	Exhaust pipe open/close valve type exhaust brake, Auxiliary braking unit for working
	Model	All hydraulic power steering
Steering	Mode	Front 2 wheel steering, rear 2 wheel steering, independent front and rear wheel steering (with automatic rear steering lock system)
-	Front	275 / 80 R22.5 151 / 148J
Tire size	Rear	275 / 80 R22.5 151 / 148J
Fuel tank capac	city	250 L
Batteries		(12V-100AH) ×2
Safety dev	vices	
		Emergency steering device, Rear wheel steering lock system (automatic), Brake fluid leak warning device, Auxiliary braking unit for working, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device,
Standard	oguinmo	
● Standard	equipinel	Aluminum outrigger plate, Electrically stowed side mirrors
●Optional e	auinmen	
Орионаге	quipinien	Rearview camera, Left side view camera, Wheel chock
■ GENER	AL Din	
Overall length		7,440mm
Overall width		1,995mm
Overall height		2,845mm
Wheel base	_	2,750mm
Treads	Front	1,680mm
Descenses	Rear	1,680mm
Passenger cap	Gross	One person
Cross vahi-1-	weight	approx. 13,765kg
Gross vehicle mass	Front weight	approx. 6,790kg
	Rear weight	approx. 6,975kg

- 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 Not exceed 75% of static tipping loads

5.3m — 24.0m Boom

									_	_ <u>1</u>						1					<u> </u>			
			(4.7	5m)					(4.3	3m)					(3.7	7m)					(2.7	m)		
					tende	b			gers i			у				nterme		у				nterme		у
Working			360° fu						ended	<u> </u>	<u> </u>					(over	<u> </u>					(over		
radius (m)	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.5	13.00	6.00	6.00	DOUIII	DOUIT	DOUIII	13.00	6.00	6.00	DOUIT	DOUIT	DOUIT	12.00	6.00	6.00	DOUIII	DOUIT	DOUIT	12.00	6.00	6.00	DOUIII	DOUIII	DOUIT
1.7	13.00	6.00	6.00				13.00	6.00	6.00				12.00	6.00	6.00				12.00	6.00	6.00			
2.0	12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00		
2.5	10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			8.50	6.00	6.00	5.00		
3.0	8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		6.00	6.00	6.00	5.00	4.70	
3.5	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	4.70	4.70	4.60	4.50	4.40	3.20
4.0	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	3.70	3.70	3.70	3.70	3.70	3.20
4.5		5.50	5.40	5.00	4.50	3.20		5.50	5.40	5.00	4.50	3.20		5.10	5.10	5.00	4.50	3.20		3.00	3.00	3.10	3.10	3.00
5.0		5.00	4.90	4.60	4.05	3.20		5.00	4.90	4.60	4.05	3.20	<u> </u>	4.40	4.40	4.50	4.05	3.20		2.40	2.40	2.60	2.70	2.70
5.5 6.0		4.50	4.40	4.20	3.70	3.20		4.50	4.40	4.20	3.70	3.20	<u> </u>	3.80	3.70	3.90	3.70	3.20		2.00	2.00	2.20 1.85	2.30	2.30
6.5		3.70	3.65	3.80	3.40	2.80		4.10 3.65	4.00 3.60	3.80	3.40	2.80		2.80	2.75	3.40 2.95	3.40	2.75		1.70	1.70	1.60	2.00	1.75
7.0		3.70	3.30	3.20	2.90	2.60		3.20	3.15	3.20	2.90	2.60	_	2.40	2.75	2.95	2.70	2.75		1.20	1.20	1.40	1.50	1.75
8.0		270 (7.7m)	2.90	2.70	2.50	2.25		2.65 (7.7m)	2.45	2.60	2.50	2.25	_	1.95 (7.7m)	1.80	2.00	2.10	2.15		0.90 (7.7m)	0.85	1.05	1.15	1.20
9.0		210 (1.1111)	2.25	2.30	2.20	1.95		2.00 (1.1111)	1.90	2.10	2.20	1.95		1.00 (1.111)	1.40	1.60	1.70	1.75		0.00 (1.111)	0.60	0.80	0.90	0.95
10.0			1.80	2.05	1.95	1.75			1.50	1.70	1.85	1.75			1.05	1.25	1.35	1.45			0.35	0.55	0.65	0.75
11.0			1.45	1.70	1.75	1.55		7	1.20	1.40	1.55	1.55			0.80	1.00	1.10	1.20				0.40	0.50	0.60
12.0			1.35 (11.4m)	1.40	1.50	1.40			1.10 (11.4m)	1.15	1.30	1.35			0.70 (11.4m)	0.80	0.90	1.00				0.25	0.35	0.45
13.0				1.15	1.30	1.25				0.95	1.10	1.15				0.65	0.75	0.85					0.20	0.30
14.0				0.95	1.10	1.15				0.80	0.90	1.00				0.50	0.60	0.70						0.20
15.0				0.80	0.90	1.00				0.65	0.75	0.85				0.40	0.50	0.55						
16.0					0.79	0.85					0.65	0.70					0.40	0.45						
17.0					0.68	0.74					0.55	0.60					0.30	0.35						
18.0					0.58	0.64					0.45	0.50						0.30						
19.0					0.51(18.8m)	0.55		-4			0.35 (18.8m)	0.40												
20.0						0.47						0.35												
21.0						0.41						0.30												
22.5						0.35						0.25												
ZZ.5 Critical						0.32																		
boom angle	-	$\mid - \mid$	-	_	-	-	- - - - -								36°	7 — 19° 32° 44° 50°								
Standard				2.1		for 13 ton for 13 ton for 13 to				2.1														
hook			for 13	3 ton					tor 1	3 ton														
Hook mass			90	kg					90	kg	90kg 90kg													
Parts of line	8	4	4	4	4	4	8	4	4	4	4 4 8 4 4 4			4	4	4	8	4	4	4	4	4		

(Unit : Metric ton)

5.3m — 24.0m Boom

Working	Ou	ıtrigge	rs com	I I 4m) pletely	y retra	cted							
radius (m)	5.3m	5.3m 9.04m 12.78m 16.52m 20.26m 24.0m											
	Boom		_										
1.5	8.00	6.00	6.00										
1.7	7.00	6.00	6.00										
2.0	5.60	5.40	5.00	4.70									
2.5	3.80	3.80	3.60	3.50									
3.0	2.80	2.80	2.70	2.70	2.60								
3.5	2.10	2.10	2.00	2.10	2.10	2.10							
4.0	1.60	1.60	1.55	1.70	1.70	1.75							
4.5		1.25	1.20	1.40	1.40	1.45							
5.0		0.95	0.95	1.10	1.20	1.25							
5.5		0.75	0.75	0.90	1.00	1.05							
6.0		0.60	0.55	0.75	0.80	0.90							
6.5		0.40	0.35	0.60	0.65	0.75							
7.0		0.25		0.45	0.55	0.60							
Critical boom angle	_	20°	54°	61°	66°	70°							
Standard hook			for 1	3 ton									
Hook mass			90	kg									
Parts of line	8 4 4 4 4 4												

(Unit : Metric ton)

■When the outriggers are not used

						4			Ó	0			
		Sta	tionary	on rub	ber		Pi	ick & c	arry (le	ss thar	2 km/	h)	
Working	5.3m	Boom	9.04m	Boom	12.78n	n Boom	5.3m	Boom	9.04m	Boom	12.78n	n Boom	Working
radius (m)	Over front	360° full range	Over front	360° full range	radius (m)								
1.5	3.60	2.80	3.60	2.80	3.60	2.80	3.20	2.00	3.20	2.00	3.20	2.00	1.5
2.0	3.40	2.80	3.40	2.80	3.40	2.80	3.00	2.00	3.00	2.00	3.00	2.00	2.0
2.5	3.10	2.15	3.10	2.10	3.10	2.05	2.80	1.55	2.75	1.50	2.65	1.45	2.5
3.0	2.65	1.60	2.60	1.55	2.55	1.50	2.40	1.10	2.30	1.05	2.20	1.00	3.0
3.5	2.30	1.25	2.20	1.20	2.10	1.10	2.00	0.85	1.90	0.75	1.80	0.65	3.5
4.0	2.00	0.90	1.90	0.80	1.70	0.70	1.70	0.60	1.65	0.50	1.50	0.40	4.0
4.5			1.60	0.50	1.40	0.40			1.40	0.30	1.25		4.5
5.0			1.30		1.10				1.15		1.00		5.0
5.5			1.10		0.95				0.95		0.85		5.5
6.0			0.90		0.80				0.80		0.70		6.0
7.0			0.50		0.50				0.45		0.45		7.0
Critical boom angle	_	_	26°	54°	52°	66°	_	_	26°	54°	52°	68°	Critical boom angle
Standard hook			for 1	3 ton					for 1	3 ton			Standard hook
Hook mass			90	kg					Hook mass				
Parts of line			4	4					4	4			Parts of line

(Unit : Metric ton)

																				Not	excee	d 75%	6 of st	atic ti	pping l	loads
									24.0)m	В	oor	n⊣	-3.	.6n	n J	lib									
		_		1 (4	.75m))					<u>/</u>]	(4.	3m)						-		(3.71	m)			
0	utrigge	ers full	y exte	nded (360° fu	ıll ranç	ge)		Outr	iggers	interr	nediate	ely ext	ended	(over	side)		Outr	iggers	intern	nediate	ely ext	ended	(over	side)	
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°
angle	Working	Load	Working	Load	Working	Load	Working	Load	angle	Working	Load	Working	Load	Working	Load	Working	Load	angle	Working	Load	Working	Load	Working	Load	Working	Load
(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65	82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65	82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65	80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65	80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65
75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65	75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65	75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65
70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65	70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65	70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65
65	12.3	1.05	13.1	0.88	13.6	0.77	13.8	0.65	65	12.3	1.05	13.1	0.88	13.6	0.77	13.8	0.65	65	12.2	0.90	13.1	0.77	13.6	0.77	13.8	0.65
60	14.3	0.90	15.1	0.76	15.6	0.70	15.6	0.65	60	14.3	0.87	15.1	0.76	15.6	0.70	15.6	0.65	60	14.2	0.59	15.0	0.54	15.5	0.54	15.5	0.54
55	16.3	0.72	17.0	0.64	17.4	0.64			55	16.2	0.60	16.9	0.55	17.3	0.53			55	16.0	0.37	16.8	0.33	17.2	0.33		
50	18.1	0.57	18.7	0.51	18.9	0.53			50	18.0	0.43	18.6	0.41	18.8	0.40			50	17.8	0.20	18.5	0.18	18.7	0.18		
45	19.7	0.42	20.4	0.40	20.3	0.40			45	19.6	0.30	20.2	0.27	20.3	0.27			Critical boom angle	4.	9°	4.	9°	45	9°	55	9°
40	21.1	0.30	21.6	0.29					40	21.0	0.19	21.5	0.18					Standard hook				for 1.	8 ton			
35	22.3	0.22	22.7	0.20					Critical boom angle	3	9°	3.	9°	4.	4°	5.	g°	Hook mass				25	kg			
Critical boom angle	3.	4°	3.	4°	4	4°	5.	9°	Standard hook				for 1.	8 ton				Parts of line				1	1			
Standard hook				for 1.	.8 ton				Hook mass				25	ikg												
Hook mass				25	ikg		7		Parts of line					1												
Parts of line					1	47																				

24.0m Boom+3.6m Jib

24.0m Boom + 5.5m Jib

			$\exists_{\bar{1}}$	(2.7n	n)				
Out	riggers	s interi	mediat	ely ex	tended	l (over	side)		
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	
angle (°)		Load (ton)	Working radius (m)	Load (ton)		Load (ton)			
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65	
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65	
75	7.8	1.20	8.7	1.05	9.5	0.93	9.6	0.65	
70	10.0	0.72	10.9	0.65	11.5	0.62	11.7	0.56	
65	11.9	0.41	12.9	0.35	13.4	0.34	13.6	0.33	
Critical boom angle	64	4°	6-	4°	64	4°	6-	4°	
Standard hook	ard hook for 1.8 ton								
Hook mass	Hook mass 25kg								
Parts of line					1				

					1 (4	.75m))					_		1 (4.	3m)			
	0	utrigge	ers full	y exte	nded (360° fu	ıll ranç	ge)		Outr	iggers	intern	nediate	ely ext	ended	(over	side)	
	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°
k	angle	Working	Load	Working	Load	Working	Load	Working	Load	angle	Working	Load	Working	Load	Working	Load	Working	Load
)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)
	82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40	82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40
	80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40	80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40
5	75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40	75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40
;	70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40	70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40
3	65	13.4	0.81	14.7	0.61	15.6	0.52	15.6	0.40	65	13.4	0.81	14.7	0.61	15.6	0.52	15.6	0.40
	60	15.6	0.69	16.8	0.55	17.5	0.48	17.4	0.40	60	15.5	0.69	16.8	0.55	17.5	0.48	17.4	0.40
1	55	17.7	0.58	18.8	0.49	19.3	0.45			55	17.6	0.54	18.7	0.49	19.2	0.45		
71	50	19.6	0.49	20.5	0.44	20.8	0.41			50	19.5	0.38	20.4	0.36	20.7	0.35		
	45	21.2	0.38	22.0	0.36	22.3	0.36			45	21.0	0.27	21.8	0.25	22.1	0.25		
	40	22.9	22.9 0.26 23.4 0.26							Critical boom angle	4	4°	4	4°	4	4°	5	9°
	Critical boom angle	39° 39° 44° 59°							9°	Standard hook				for 1.	8 ton			
	Standard hook				for 1.	8 ton				Hook mass 25kg								
	Hook mass				25	kg				Parts of line					1			
	Parts of line					1												

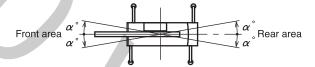
24.0m Boom+5.5m Jib

		<u>-</u>	1	(3.7	m)								(2.7m	1)			
Outr	iggers	intern	nediate	ely ext	ended	(over	side)		Outr	riggers	intern	nediate	ely ext	ended	(over	side)	
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°
angle		Norking Load Working Load Worki							angle					Working			Load
(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40	82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40
80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40	80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40	75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40
70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40	70	10.8	0.66	12.3	0.55	13.3	0.48	13.6	0.40
65	13.4	0.75	14.7	0.61	15.6	0.52	15.6	0.40	65	12.9 0.36 14.4 0.30 15.3 0.26							
60	15.4	0.52	16.7	0.45	17.5	0.42	17.4	0.40	Critical boom angle	64	4°	64	t°	64	!°	69	0
55	17.4	0.31	18.6	0.28	19.1	0.28			Standard hook				for 1.	8 ton			
52	18.5	0.22	19.5	0.21	20.0	0.20			Hook mass				25	ikg			
Critical boom angle	5	51° 51° 51° 59°							Parts of line					1			
Standard hook				for 1.	8 ton												
Hook mass				25	kg												
Parts of line	of line 1																

■Notes for the lifting capacity chart

■When the outriggers are used

- 1. The 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.
 - [13 ton hook (mass: 90 kg), 1.8 ton hook (mass: 25 kg)]
 - 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.
- 2. 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.
- 3. The jib working radius is based on the jib mounted on the end of the 24.0 m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
- 4. Do not operate the jib when the outriggers are completely retracted.
- 5. The lifting capacities for the over sides vary with the outriggers extension width. Therefore for each outriggers extension condition you should work according the lifting capacity chart.
 - Use the lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.



Outrigger extension status	Intermediate extension (4.3m)	Intermediate extension (3.7m)	Intermediate extension (2.7m)	Full retraction
Area α∘	25	25	15	3

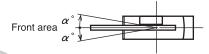
- 6. The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 1,800 kg.
 - [The hook for use with the rooster sheave is the 1.8 ton hook (mass: 25 kg) with one part of line.]
- 7. If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- 8. If you are working with the boom while the jib is rigged, subtract 600 kg plus the mass of all attached hook, slings, etc. to the boom from the each lifting capacity of the boom, with an upper limit of 5 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 completely retracted.
- 9. 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.
- 10. 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 15.7 kN (1.6 tf) per wire rope respectively.
- 11. High-speed lowering operation should only be performed to allow descent of the hook alone. Avoid sudden lever operation.
- 12. Crane operation is permissible up to a wind speed of 10 m/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 crane tipping or damage caused by crane operations with a load in excess of the lifting capacity or incorrect procedure.

■When the outriggers are not used

- 1. The 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: 875 kPa (8.75 kgf/cm²)]

- 2. 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.
- 3. The 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

- 4. Do not work with the jib or with a boom length of more than 12.78 m.
- 5. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- 6. For pick and carry operation, the shift lever set to speed 1.
- 7. For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2 km/h to avoid swinging the load.

Take particular care to avoid sharp turns, sudden starts and stops.

- 8. Never operate the crane during pick and carry operation. The slewing brake must be applied.
- 9. The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 1,800 kg.

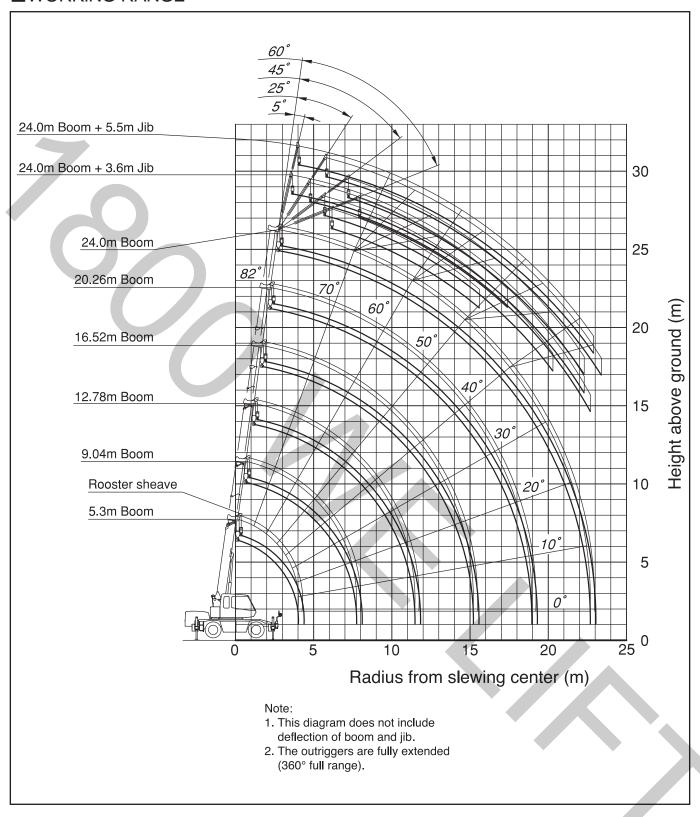
[The hook for use with the rooster sheave is the 1.8 ton hook (mass: 25 kg) with one part of line.]

- 10. If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- 11. 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.

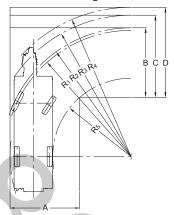
- 12. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 15.7 kN (1.6 tf) per wire rope respectively.
- 13. High-speed lowering operation should only be performed to allow descent of the hook alone. Avoid sudden lever operation.
- 14. Crane operation is permissible up to a wind speed of 10 m/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 crane tipping or damage caused by crane operations with a load in excess of the lifting capacity or incorrect procedure.

5



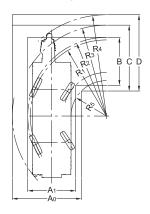
■Minimum path width

Right turn in two-wheel steering mode



- R₁=6.50m (Minimum turning radius)
- A=3.59m (Width of entrance)B=3.59m (Width of wheel exit)
- R₂=6.64m
- C=4.24m (Width of chassis exit)
- (Turning radius of extremely D=4.65m (Width of exit at end of boom) outer tire)
- R₃=7.28m
- (Chassis turning radius)
- R₄=7.69m
- (Boom end turning radius)
- R₅=4.03m
- (Turning radius extremely chassis inner)

Right turn in 4-wheel steering mode



- R₁=3.92m
- (Minimum turning radius)
- R₂=4.06m (Turning radius of extremely outer tire)
- R₃=4.68m
- (Chassis turning radius)
- R₄=5.22m
- (Boom end turning radius)
- R₅=1.82m

(Turning radius extremely chassis inner)

Note: The above values are based on calculations.

• A₀=3.56m (Width of chassis entrance)

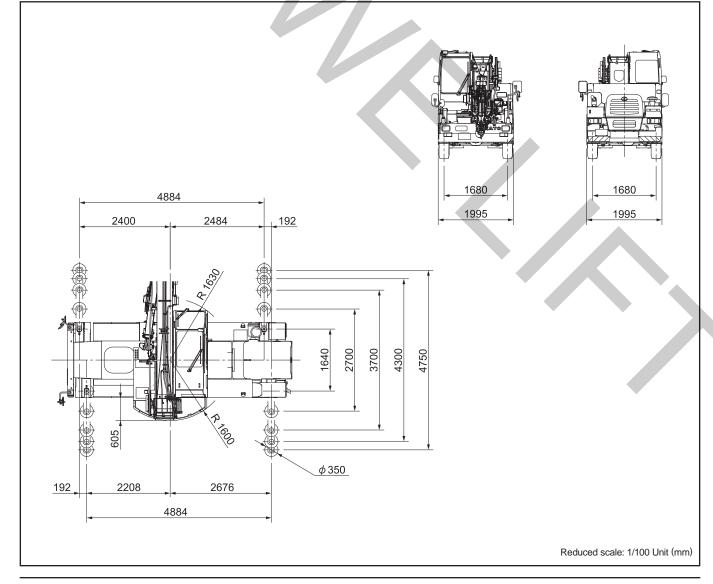
• D =3.93m (Width of exit at end of boom)

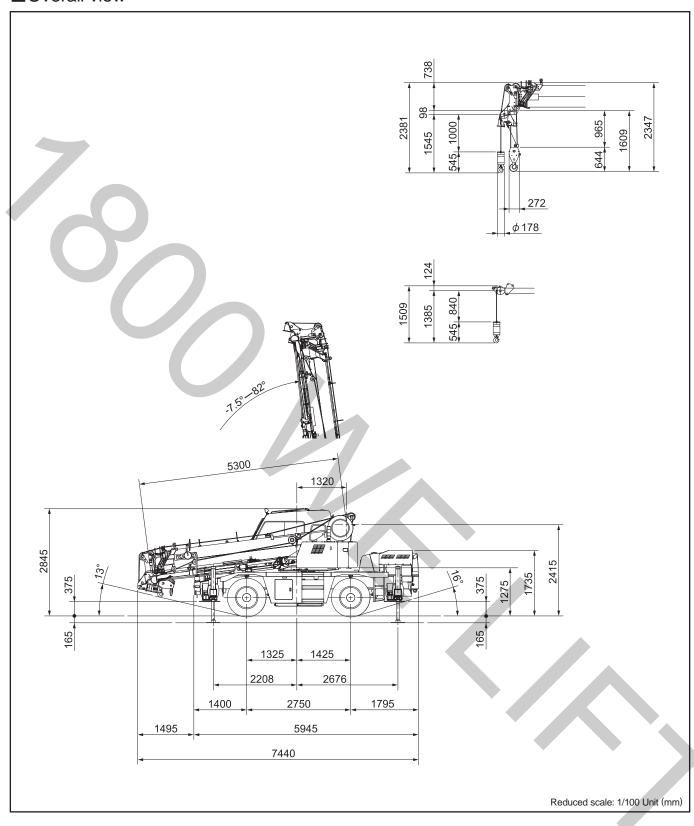
- A₁=2.47m (Width of wheel entrance)

- B =2.47m (Width of wheel exit)

- C =3.40m (Width of chassis exit)

■Overall view





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

Address inquiries to:



9-37, Higashi-ohi 1-chome, Shinagawa-ku, Tokyo, 140-0011, Japan

Tel. : Head Office Tokyo (03) 3458-1111 Overseas Marketing Department. Tokyo (03) 3458-1115

Fax. : Tokyo (03) 3458-1152 URL http://www.kato-works.co.jp

C03331 12.2012-1000 (TI) 1



