

13 TONNE

Kato MR-130R City Class All Terrain

SPECIFICATIONS

■ CRANE		
Description Rough terrain crane with maximum lifting capacity 13 ton		
● Crane specification		
Maximum rated lifting capacity	5.3 m Boom 13,000kg × 1.7 m (Parts of line : 8)	
	9.04m Boom 6,000kg × 4.0 m (Parts of line : 4)	
	12.78 m Boom 6,000kg × 4.0 m (Parts of line : 4)	
	16.52m Boom 5,000kg × 4.5 m (Parts of line : 4)	
	20.26 m Boom 4,700kg × 4.0 m (Parts of line : 4)	
	24.0 m Boom 3,200kg × 5.5 m (Parts of line : 4)	
	3.6 m Jib 1,600kg × 75° (Parts of line : 1)	
Rooster	5.5 m Jib 1,000kg × 70° (Parts of line : 1)	
	1,800kg (Parts of line : 1)	
Boom length	5.3m — 24.0m	
Fly jib length	3.6m — 5.5m	
Maximum rated lifting height	24.8m (Boom) 30.3m (jib)	
Hoisting line speed (winch up)	Main winch 118m / min. (at 5th layer)	
	Auxiliary winch 103m / min. (at 3rd layer)	
Hoisting hook speed (winch up)	Main winch (Parts of line; 8) : 14.75m / min. (at 5th layer)	
	Auxiliary winch (Parts of line; 1) : 103m / min. (at 3rd layer)	
High-speed lowering	180m / min (at 5th layer)	
Rope speed	155m / min (at 3rd layer)	
Boom derricking angle	-7.5° — 82°	
Boom derricking time	30s / -7.5° — 82°	
Boom extending speed	5.3 — 24.0m / 65s	
Slewing speed	2.4min ⁻¹	
Tail slewing radius	1,600mm	
● Equipment and structure		
Boom type	Box-shaped, 6-section hydraulically telescopic type (the 2nd and 3rd jib sections at the same time, the 4th, 5th and 6th 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/retraction equipment	Two hydraulic cylinders and wire ropes used together	
Boom derricking/lowering equipment	One hydraulic cylinder of direct acting type with pressure-compensated flow control valve	
Winch system Main & Auxiliary winches	Two units of Single winch. Differential gear reduction type (built-in negative brake) with Automatic brake, High/Low speed switching system and Hydraulic compensated flow control valve.	
Slewing equipment	Equipped with Hydraulic motor drive and a planetary gear speed reducer (built-in negative brake)	
Slewing bearing	Ball bearing type	
Outriggers	Type Hydraulic H-beam type (with float and vertical cylinder in single unit)	
	Extension width	4,750mm (Fully extended) 4,300mm (Intermediately extended) 3,700mm (Intermediately extended) 2,700mm (Intermediately extended) 1,640mm (Fully retracted)
	Wire rope for hoisting	Main winch Diameter: 11.2mm × Length: 132m
		Auxiliary winch Diameter: 11.2mm × Length: 65m
	● Hydraulic equipment	
Oil pump	Double variable plunger type, gear and plunger type	
Hydraulic motor	Hoisting motor Axial plunger type	
	Slewing motor Axial plunger type	
Control valve	Double acting with integral check and relief valves (With Hydraulic compensated flow control valve)	
Cylinder	Double acting type	
Oil reservoir capacity	150L	
● Safety devices		
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 jib derricking/lowering, Overhoist prevention device, Drum lock device, Automatic winch brake, Hydraulic safety valves, Outrigger lock pins, Slewing warning lamp, Hydraulic oil temperature warning device, Sling rope holding device		
● Standard equipment		
Air conditioner, Winch drum turning indication device, Working light (on boom, table and cab)		
● Operator's 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		
● Optional equipment		
ACS external display, Loudspeaker, Door visor, Tangling prevention unit		

■ CARRIER	
● Carrier specification	
Maximum traveling speed	49km/h
Grade ability	0.56 (tan θ)
Minimum turning radius (center of extreme outer tire)	6.5m (2 wheel steer) 3.92m (4 wheel steer)
● Engine	
Model	Mitsubishi 4M50-TLE3A
Type	4 cycle, 4 cylinders, water cooled, direct injection turbo-charge diesel engine with intercooling
Piston displacement	4.896L
Max. power	129kW at 2,700min ⁻¹
Max. torque	530N·m at 1,600min ⁻¹
● Equipment and structure	
Drive system	Switches between 2 wheel drive (4×2) and 4 wheel drive (4×4)
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
Axles	Front Full floating type, with a two-stage reduction gear
	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)
Brake system	Service Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)
	Parking Spring applied, electrically air released parking brake mounted front axle, internal expanding type
	Auxiliary Exhaust pipe open/close valve type exhaust brake, Auxiliary braking unit for working
Steering	Model All hydraulic power steering
	Mode Front 2 wheel steering, rear 2 wheel steering, independent front and rear wheel steering (with automatic rear steering lock system)
Tire size	Front 275 / 80 R22.5 151 / 148J Rear 275 / 80 R22.5 151 / 148J
Fuel tank capacity	250 L
Batteries	(12V-100AH) × 2
● Safety devices	
Emergency steering device, Rear wheel steering lock system (automatic), Brake fluid leak warning device, Auxiliary braking unit for work Suspension lock, Engine overspeed alarm, Radiator coolant level warning device,	
● Standard equipment	
Aluminum outrigger plate, Electrically stowed side mirrors	
● Optional equipment	
Rearview camera, Left side view camera, Wheel chock	
■ GENERAL Dimensions	
Overall length	7,440mm
Overall width	1,995mm
Overall height	2,845mm
Wheel base	2,750mm
Treads	Front 1,680mm
	Rear 1,680mm
Passenger capacity	One person
Gross vehicle mass	Gross weight approx. 13,765kg
	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 and operate it correctly.
- KATO products and specifications are subject to improvements and changes without notice.