



Upper Machinery

UPPER FRAME: All-welded, precision machined unit.

TURNTABLE BEARING WITH INTEGRAL RING GEAR: Outer race is bolted to upper frame, inner race with internal ring gear is bolted to lower frame. Swing pinion meshes with internal, integral ring gear. A machined surface is provided for mounting turntable bearing.

CONTROL SYSTEM: Remote controlled hydraulic servo for main hoist, aux. hoist, boom hoist and travel. Mechanical linkage type for swing. Working speed can be precisely controlled by lever stroke.

PUMP CONTROL SYSTEM: System reducing pump displacement enables both minute operation and saving energy.

HYDRAULIC SYSTEM: System combining variable displacement axial pumps and fixed displacement gear pumps provides both independent and combined operations of all functions.

Main hoist/aux. hoist/boom hoist — Axial piston motor with counterbalance valve.

Swing motor — Axial piston motors.

Travel motor — Axial piston motors with brake valves. Spring-applied/hydraulic-released multiple disc brakes are fitted.

Hydraulic oil reservoir — 300 liter capacity.

LOAD HOIST ASSEMBLY: Front (main) and rear (aux.) operating drums. Each driven by the bi-directional, axial piston motor through reduction gear powering the rope drum in either direction for hoisting or lowering load.

Clutches — Power hydraulic actuated, internal expanding, self adjusting 2-shoe type.

Brakes — External contracting band type operated by foot pedal with locking latch. For crane mode, automatic brake (spring applied, hydraulically released) is applied when control lever in neutral position. For bucket mode, free-fall is available when control lever in neutral position.

Locks — Electrically operated drum lock pawl.

BOOM HOIST ASSEMBLY: Driven by the bi-directional, axial piston motor through reduction gear powering the rope drum in either direction for hoisting or lowering boom.

Brake — Spring applied, hydraulically released multiple disc type.

Lock — Electrically operated drum lock pawl.

SWING: Driven by axial piston motor, through reduction gear.

Brakes — Brake is applied by spring and released by hydraulic cylinder.

Lock — Mechanically operated pin connection frame lock.

Speed — 2.2 rpm (High), 1.3 rpm (Low)

OPERATOR'S CAB: Full vision compartment with safety glass panels, the completely independent cab is insulated against noise and vibration.

COUNTERWEIGHT: Removable, 7 blocks mounted on rear of upper frame by bolts.

POWER UNIT:

Make & Model	MITSUBISHI 6D22CT
Type	Water-cooled, 4-cycle diesel engine
No. of cylinders	6
Bore & Stroke	130mm x 140mm
Displacement	11,149 cc
Rated output	250 ps/2,200 rpm
Max. torque	105 kg-m/1,200 rpm
Fuel tank	450 liters

Lower Machinery

LOWER FRAME: All welded robust rolled steel, box construction.

SIDE FRAMES: All welded robust rolled steel. Connected to lower frame by axle shim packs and pins.

ROLLERS: Heat treated, mounted on bushings with floating seals requiring no further lubrication.

Bottom — 10 pcs. per side frame
Top — 3 pcs. per side frame.

DRIVE SPROCKETS: Heat treated, involute splined to drive shaft mounted on antifriction bearings.

IDLERS: Heat treated, mounted on bushings with floating seals requiring no further lubrication.

TRACKS: Heat treated, self cleaning, one lug type, multiple hinged shoes, 54 pcs. per side frame.

Shoe width — 965mm (standard)
1.118mm (optional extra).

TRACK TENSION ADJUSTER: Adjusted by hydraulic cylinders at the idler blocks. Tension can be automatically released when abnormal load occurred on tracks.

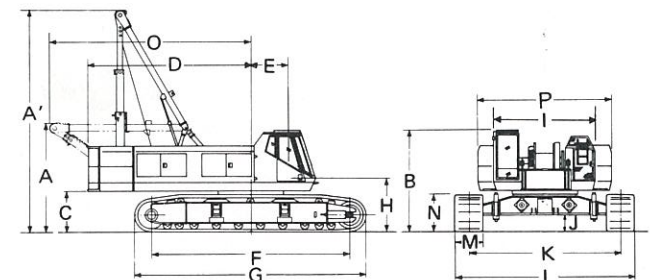
TRAVEL AND STEER: Axial piston motor with reduction gear is located at inner drive end of each crawler side frame. Each track is driven simultaneously or individually for straight-line travel, or pivot turn, or the tracks can be counter-rotated for spin turns.

Brake — Spring applied, hydraulically released multiple disc brakes applied automatically when control lever in neutral position.

Speed — 4 speed range
1.5/1.0km/h . . . Pump control "OFF" (ordinary)
0.4/0.2km/h . . . Pump control "ON"

General Dimensions

A	: Height over low gantry unit	3.675m
A'	: Height over high gantry unit	7.500m
B	: Height of cab	3.395m
C	: Counterweight ground clearance	1.400m
D	: Radius of rear end	5.500m
E	: Center of rotation to boom foot pin	1.400m
F	: Center to center distance of tumbler	6.690m
G	: Overall length of crawler	7.790m
H	: Height from ground to boom foot pin	2.275m
I	: Overall width of house	3.400m
J	: Ground clearance	0.565m
K	: Center to center distance of crawler	5.100m
L	: Overall width of crawler	6.065m
M	: Shoe width	0.965m
N	: Height of shoe	1.255m
O	: Tail swing radius at low gantry	6.770m
P	: Overall width of upper machinery	4.500m



We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.

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