

CM20H

HYDRAULIC 'C' CRANE



Salient Features

- Sturdy, turbocharged, aftercooled BEML diesel engine for sustained power and fuel economy.
- Allison automatic powershift transmission with perfectly matched torque converter eliminates operator's errors, automatically adjusts to varying loads, faster for minimising the cycle time.
- Traction sensing differential transfer enough power to the wheel on firmer footing when other wheel starts spinning.
- Dependable air-over-hydraulic, wedge actuated, shoe type service brakes.
- Wider wheel base provides better stability for loading.
- Sophisticated load sensing hydraulic system for precise material handling. Reduced cycle time by increased crane speed in no load.



Net power : 350 bhp @ 2100 rpm
Lifting Capacity (max) : 10,300 kg

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Technical Specifications



Engine

Make	BEML
Model	BS6D140-1
Type	6 cylinder, water cooled, turbocharged, after cooled diesel engine.
BHP	350 kW @ 2100 rpm
Displacement	14010 cc
Maximum torque	1313 Nm @ 1400 rpm
Governor	Mechanical
Lubrication system	Forced lubrication
Air cleaner	Dry type
Electricals	45 A, 24V, alternator, 2 x 12V batteries



Steering

Type	Full hydraulic power steering system independent of engine speed.
Cylinders	Twin double acting 127 x 604 mm
Bore x Stroke	∅ 127 x 604 mm
Turning angle each way	90°
Width for 180° turn	9910 mm



Transmission

Transmission	Allison CT 754 fully automatic with selective range control
Max speeds	
Forward :	44.1 km/h, 5 forward
Reverse :	8.7 km/h, 1 reverse



Brake

Service brakes	Air-over-hydraulic, wedge actuated shoe type 4 wheeled
Parking brake	Spring applied, air released, brake controlled by a two way valve.
Emergency brake	Automatically actuates the parking brake when the air pressure goes below the rated value.



Final Drive & Axles

Type	Double reduction
Differential	Traction sensing, automatic friction type



Refill Capacity

System	Litres
Cooling System	60.00
Engine crank case	26.50
Hydraulic tank	115.50
Transmission	28.40
Final Drive	106.00
Fuel Tank	586.70



Hydraulic System

Main pump	Load sensing, axial piston, variable displacement 0 to 100 cc/rev, pressure regulator setting of 230 bar
Pilot pump	Gear pump, 28 cc/rev
Hydraulic motor	Bi-directional, variable displacement, axial piston electrically controlled with a maximum displacement of 50 cc/rev
Hydraulic brake	Multiple disc, spring apply, hydraulic release with a braking torque of 508Nm
Control valve	Load sensing closed centre, proportional control valve with manual control and load sensing relief valves

Cable Specification

Hoist block line	12.7 mm x 76,200 mm
Boom line	12.7 mm x 45,700 mm
Elevator track	12.7 mm x 50,290 mm
Type	Recommended 1 WRC, right regular lay



Tyre

Tractor	29.5 x 29, 28 PR
Crane	29.5 x 29, 28 PR

Crane

Max. lift	10,300 mm
Max reach	10,300 mm
Reach and lift capacity (behind centre line of crane wheels)	
0 to 2.50 m	18,150 kg
3.00 m	14,500 kg
3.75 m	12,000 kg
4.50 m	9,650 kg
6.00 m	7,250 kg
7.50 m	5,800 kg
9.00 m	4,830 kg
10.30 m	4,285 kg

Controls : Manual control for swivel control for swivel hook up and down, boom extension and retraction, elevator track angle adjustment from horizontal to 14 deg forward of vertical

Overall Dimensions

Length, max	23,030 mm
Length, min	15,660 mm
Height, max	11,020 mm
Height, min	3,580 mm
Width	3,960 mm
Wheel base	9,140 mm

Wheel tread

Tractor	2,290 mm
Crane	3,350 mm

Ground clearance

Tractor	840 mm
Crane	860 mm

Standard Equipment

Operator's seat

Dry type air cleaner

Hydraulic tank

Sight gauge

Tractor tenders

Rear view mirrors

Head lights

Throttle lock

Tachohour meter

Twin air horns

Belly plates

Tow hooks

Canopy with wind shield

Parking brake

Emergency brake

Reverse warning light

Tail light and reflector and standard tools

Safety Features

- Hydraulic lifted brake for holding the load in position
- Over centre valve provided to avoid over-turning of load and hold it in position
- Limited switches provided at end stops, prevents further movement by energising poppet valves

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