

Hydraulic Crawler Crane SCX900-2



Engine					
Crane ID	OCS-E&M-CRA-00	Engine Manufacturer	Isuzu 6HK1X		
Brand	HITACHI SUMITOMO	Engine Power	184Kw		
Model	SCX900-2	Engine Type	Diesel Driven		
Type	Crawler Crane	No of Cylinders	6		
Year of Manufacture	2011	Cylinder Bore & Stroke	115 mm x 125 mm		
Serial Number	SC 090-7363	Displacement	7,790cc		
Max Capacity	90 Ton	Fuel Tank	415 litres		
Boom					
Boom connections	In-line pin connections at 1.55m deep and 1.55m wide				
Basic boom	2 piece, 12m basic length; 6m base and tapered top sections				
Min Standard Boom	12m				
Max boom length	60m for lift crane application/24m for clamshell application/27m for dragline application				
Max fly jib length	28m				
At Reach	4m				
Load Torque	3351kNm				
Total Counter Weight	29.7Ton				
Auxiliary Counter Weight	2Ton				
Hook Blocks	90Ton four sheaves with duplex type hook				
Drum					
Drum Wire(Front)	200m				
Drum Wire(Rear)	170m				
Drum Data					
Drum	Root dia.	Type	Line speed	Cable	Max line pull
Front	554mm	Parallel grooved	110 ~ 2 mpm	26mm	196kN <20t>
Rear	554mm	Parallel grooved	111 ~ 2 mpm	26mm	196kN <20t>
Boom hoist	463.6mm	Parallel grooved	46 ~ 2 mpm	22.4mm	152kN <15.5t>
optional 3rd	554mm	Parallel grooved	73 ~ 2 mpm	26mm	196kN <20t>

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OCS owned Hitachi Sumitomo lattice boom SCX 900-2 Crawler Crane is one of the main key support equipment especially for our UB01 operations.

It has an engine performance of 184kW or 246 horse power & a maximum carrying capacity of 90tonnes. With a maximum boom length of 60m, this model is constructed to deliver a load torque of 3531kNm.

The Crawler crane consists of an upper carriage mounted on a crawler type undercarriage. The upper deck and attachments rotate 360°

They are ideal for materials handling and dredging work. The main advantage of these cranes is, it is easy to lift and move the heavy loads from one end to another end while in operation.

To top it up, the crawler is actively certified by Singapore Ministry of Manpower for use in Singapore Refinery sectors

On safety aspects, the crawler is equipped with a **Load Moment Indicator** (LMI), also known as Rated Capacity Indicators (RCI), or a Safe Load Indicator (SLI) or an Automatic Safe Load Indicator (ASLI) is a device which is installed on Lattice or Crawler cranes to alert the operator if the lift is exceeding the safe operating range of the crane. In some cases, the device will physically lock the equipment in circumstances it determines to be unsafe. LMI systems are usually composed of a microprocessor connected to various sensors on the crane itself. The LMI measures the angle and extension of the boom along with the load weight and compares this with the manufacturer's specifications to determine if the lift is safe. A **safe load indicator** has the capability of detecting the angle, weight of load lifted, and ground radius of any lifting device. It controls the lifting equipment to the level that it tries to keep the crane functioning as per the manufacturer's suggested safety charts. The crane is fitted with multiple sensors, for each of the measured parameters, which are then further displayed in the operator's cabin for his benefit.

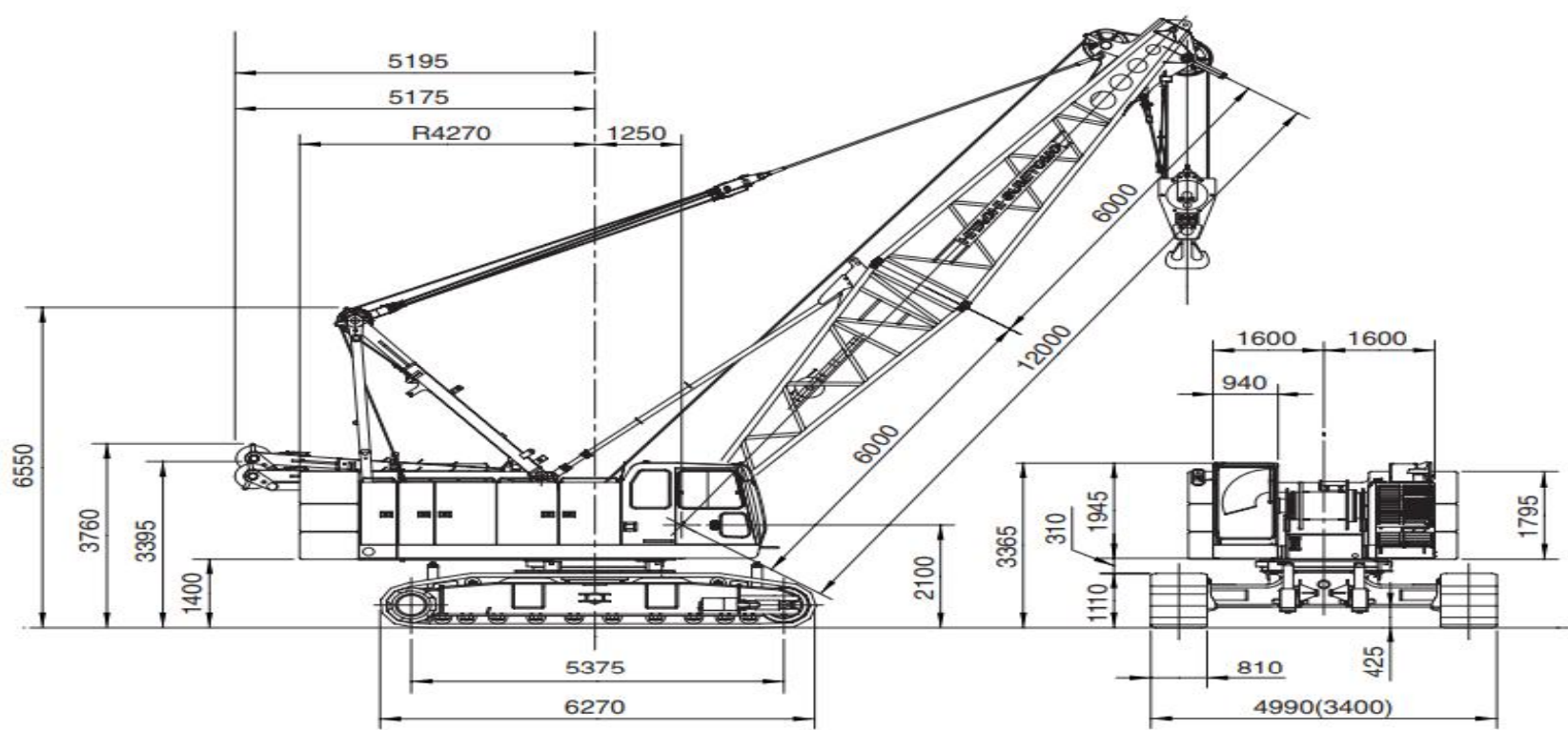
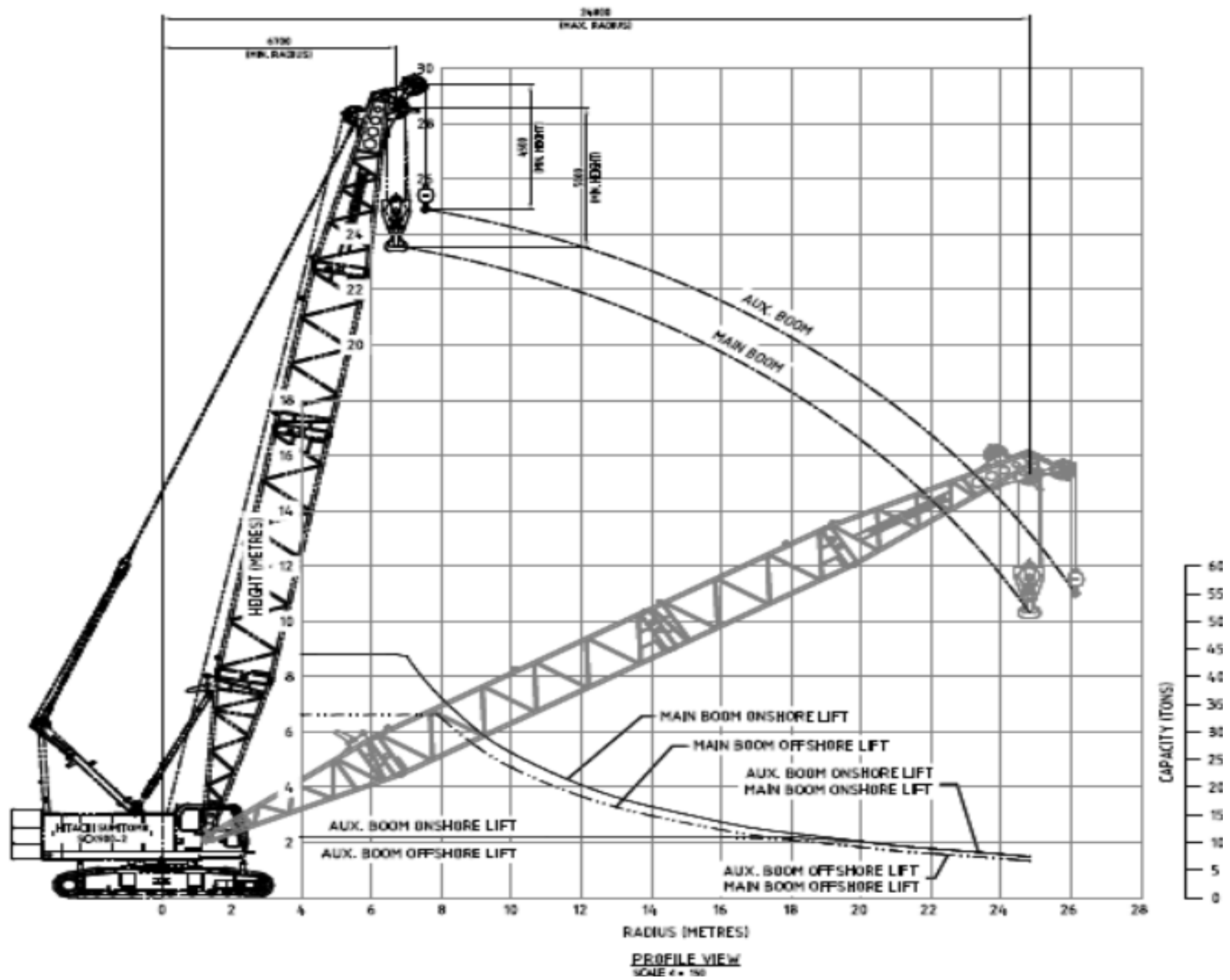
It is important to regularly review the list of critical spare parts of the equipment before each project.

Critical problems occur in these units during the operation include:

- Seals and hoses relating to the hydraulics
- Fuel Injection tools adjustor

Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

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(in mm)