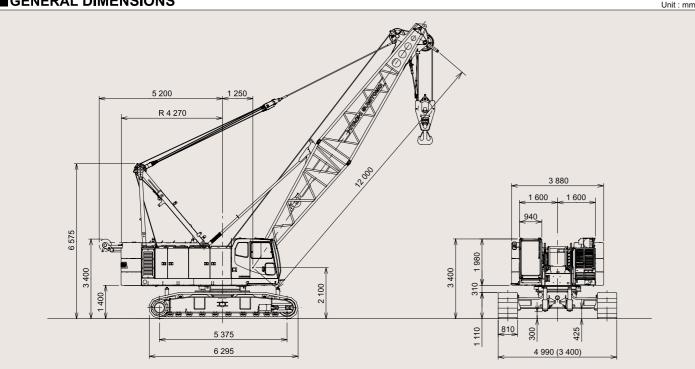
SCX900HD-2

GENERAL DIMENSIONS



SPECIFICATIONS

			Lift crane application	Clamshell application	
Max. lifting capacity		t×m	90×4.0	_	
Basic boom length		m	12	12	
Max. boom length		m	60	24	
Rope line speeds ^(*1)	Front main drum	m / min	110	75 (bucket holding)	
	Rear main drum	m / min	110	75 (bucket closing)	
	Boom hoist drum	m / min	46	46	
Slewing speed		min ⁻¹	2.5	2.5	
Travel speed high / low (*2)		km/h	2.1 / 1.2	2.1 / 1.2	
Gradeability		%(°)	30 (17)	30 (17)	
Engine	Make & model		Mitsubishi 6M70-TL	Mitsubishi 6M70-TL	
	Rated output	kW / min ⁻¹	272 / 2 000	272 / 2 000	
Ground contact pressure		kPa	96	100	
Operating weight		t	85 (w / basic boom and 90 t hook block)	89 (w / basic boom and 3.0 m³ clamshell bucket)	

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HITACHI SUMITOMO



HYDRAULIC HEAVY DUTY CRAWLER CRANE SCX9001112

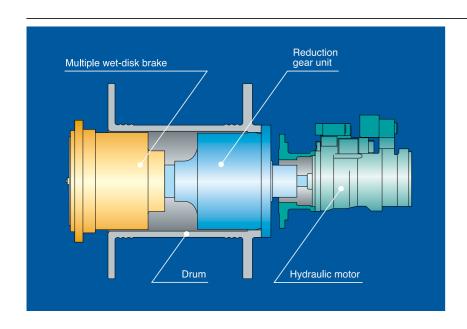


Notes: 1. These figures are based on drum first layer and rated engine rpm with no load, and vary under load and operating conditions (*1).

2. Travel speed is based on flat, level and firm supporting surface, and under the conditions that no load must be appied and front-end attachment must be 12 m basic boom (*2).

[•]We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
•Units in this catalog are shown under International System of Unit; the figures in parenthesis are under Gravitational System of Units as old one.
•Illustrations may include optional equipment and accessories, and may not include all standard equipment.





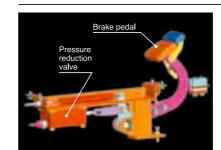
Most advanced clutchless multiple wet-disc brake

At operator's will, two main winch drum brakes well perform a constant brake pedal feeling regardless of what is load, light or heavy, and what brake pedal stroke is done from initial thru full. And, no overheating is of course seen even heavy duty as a forced-oil cooling system is designed, and it results in stress-free operation.

A long-awaited machine performance from foundation job customer is —

A Clear Brake Response & Sure Brake Capability.





Negative brake system

With a new negative brake of spring-applied/power hydraulically-released design applying dynamic hydraulic pressure for its release control, an effective braking can be done under an extreme light foot pedalling, and it accordingly results in greatly reducing operator fatigue especially during winch free-fall operations under duty cycle applications. Further, the use of negative brake system maintains a high level of brake safety even it a hydraulic pressure drop in the circuit happens.

Free-fall mechanism

Of course, two main winch drums' free-fall function is standardized, and their rated line pull is 132 kN (13.5 ton) with 28 mm dia. cable as enough for bucket off-ground and casing tube drawing.

An optional 3rd winch drum

An 108 kN (11.0 ton) line pull is performed, and a 50 t lift can be done. And, a 2 m' dia. casing driver lift and other auxiliary lift can also be done.

High power engine

A 272 kW (370 PS) engine from Mitsubishi is provided, and accordingly a bigger drum horse power (line pull by line speed) is realized under a new winch drum design with a specially-tailored power increase control system that maximizes engine output under any load condition in whole range of engine rpm.



Separated oil cooler from engine radiator

Aluminum-make; located at a part of superstructure as separated from engine radiator together with an independent autocooling fan for better cooling efficiency and heat balance, and a good maintenance.





Brake mode select key switch (1)



Brake mode switch (2)

Brake operation with drum control lever in neutral

Droke made calent key switch (1)	Brake mode switch (2)			
Brake mode select key switch (1)	Auto 🗐 side	Free 🖫 side		
LOCK: position	Auto-brake	Auto-brake		
UNLOCK: position	Auto-brake	Free (step on the pedal to apply the brake)		

In the free-brake mode, free-fall operation can be performed by releasing the stepped on brake pedal with the drum control lever in neutral so that operation is suitable to bucket operation work.

			=	
- 3	The second	ia i	ILR.	
	(a)	0	1	
	-	10	4	9

Brake mode indicator

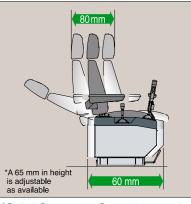
- Free-brake mode indicator : Red
- Auto-brake mode indicator : Green

To free from work stress of operator —

Strict Design Concentration toward Universal Operation Controllability & Operator Comfort.







Slidable control station and operator seat

To set most of suitable operator position, both right-and left-hand control stations are designed to simultaneously slide 60 mm back and forth together with operator seat, and operator seat is able to slide

80 mm independently too. Further, a well-proportional seat design is taken to reduce operator fatigue during continuous duty cycle works.



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New load moment indicator

An easy-to-read LCD graphic display panel is well designed and a reflection-less display panel is provided on a new LMI with setting ease of viewing angle. In addition, no zero-point adjustment, and data input thru interface counter-indication/message on display panel are available for easier and certain setting of operating conditions and LMI function. Of course, "present lifting load", "rated load", "load ratio", "working radius", "boom angle", "engine rpm" and so on are indicated on the LMI display panel. Further, the LMI functions that if lifting condition reaches peril zone, as intermittent warning buzzer is given operator together with a warning letter message on display panel of



Boom speed slowdown function

This function is available just before automatic stopping of boom motion at both upper and lower side limits of boom angle to prevent a shock even though control lever is still at hoisting/lowering position. This function is also available when overloading in the case that working radius exceeds the specified one.

Front-end attachment erection mode

In the range out of crane working area, the LMI display panel automatically indicates "Now, out of crane working range "with a rigging instruction, and it is available to lift front-end att. off ground without the influence of LMI safety functions, and, after front-end att. is lifted over the range of crane working area, LMI safety function gets back automatically for safe erection work.

For gentle and lovely machine to human being and nature —

Severe Consideration over Safety First and Environmental Management.



Function check over safety devices

The LMI is able to check whether or not safety devices like "hook overhoist limiting device", "boom overhoist limiting device", and "dual boom over-hoist limiting device" is correct before operation.

Standardized safety devices other than the above

- Dual boom over-hoist limiting device
- 2 Emergency engine stop switch (in cab)
- 3 Lifting height meter
- 4 Fool proof shut-off system
- 6 Automatic boom hoist drum pawl locking device
- 6 Slewing & travel warning alarm

Low emission engine

The prime mover, Mitsubishi 6M70-TL, meets Stage/Tier 3 of current emission regulation for off-road diesel engine in Europe, USA, and Japan.

Environmental management

Under our own strict idea, it is being done and is taken in any way, any time and anywhere on manufacture of products.



8





Folding type axle beam ends

Longer carbody axle beams with folding type ends are designed, and these four (4) ends reach up to axle box end of crawler side frames for better fitting between axle beams and crawler side frames. And, it is able to eliminate their assembling/disassembling, and axle beam-end pins can easily be pulled up and down from outside.

Counterweights

"Hook-on" design is taken for their mounting on upper revolving frame, and "horizontally-split" design is also taken to load boom extension(s) onto counterweights when transport.

Optional rigid guard

A detachable-ease rigid guard is optionally available i/o standard, and it is possible to eliminate to take cable out of drum when machine disassembling for transport in the case of a special cable-end with lug.

Gantry

A-frame type; raised and lowed by power hydraulic cylinders for assembling/disassembling ease.

To get fast assembling/disassembling and transport—

Sincere Attention to High Cost Efficiency.



