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SOOSAN TRUCK MOUNTED CRANE

SCS1015LS TOP

Specification Sheet / 27 Nov, 2025

SOOSAN

SOOSAN Crane Specification

Applicable Truck-Chassis ;	11.0 ton and above (pay-load capacity)
Crane operating weight :	6,713kg (including Rear Outrigger and mounting parts)
(Only Crane net weight :	5,193kg with Front Outrigger, Not Hook)
CRANE CAPACITY :	Max. 36ton.m
Lifting capacity / radius :	Max. 12,000kgf / 2.0m
Tip / Sheave height	
Above ground level :	Max. 23m
Below ground level :	Max. 20.7m with 6 part line
Working radius :	Min. 2.0m to Max. 20.7m
BOOM :	Six-section box beam type telescoping boom
Boom length	
Retracted boom :	6.0m
Extended boom :	21.1m
Boom extending speed :	15.1m / 40sec
Boom raising speed :	0° to 81° / 20sec
WINCH :	2-Speed hydraulic motor driven, planetary gear reduction, with hydraulic multi-disk brake
Single line pull :	2,500kgf at 5 th layer (24.5kN, at low speed)
Hoisting speed	
Sheave (hook) speed :	avg. 13(low), 23(high)m/min with 4-part line
Sheave (hook) block :	12,000kgf capacity, 3 sheaves with safety latch
Wire rope	
Construction (JIS) :	19 * 7, NO rotation WIRE ROPE
Diameter * Length :	14mm * 100m
Braking strength :	13,900kgf (136kN)
SLEWING :	Hydraulic motor driven, worm gear reduction, worm self-locking brake and hyd. Swing lock system
Slewing range :	360° continuous rotation with swing bearing
Slewing speed :	2.0 rpm

**OUTRIGGERS :**

Vertical jacks :	Vertical jacks and horizontal beams
	Double acting hydraulic cylinders with pilot-operated check valves
Horizontal beams :	Hyd. extension type(double box type)
	Auto. 2-section extension type (front)
Outrigger span	
Front	
Retracted :	2.48m
Extended :	6.18m
Rear(Optional item)	
Retracted :	2.41m
Extended :	5.07m

HYDRAULIC SYSTEM :

Hydraulic pump	
Type :	Gear pump
Rated pressure :	210kgf/cm ²
Rated delivery :	100x100 liter/min
Rated revolution :	1,250 rpm
Hydraulic valves	
Control valve :	Multiple control valve, spring centered spool-type with pressure relief valve
Pressure relief valve setting :	210kgf/cm ²
Counter-balance valve :	Boom raising and boom telescoping cylinders
Pilot-operated check valve :	Outrigger vertical cylinders
Hydraulic actuators	
Hydraulic motors :	Hoisting : Axial piston type
	Slewing : Orbit type
Hydraulic cylinders :	Double acting type
	2 * Boom raising cylinder
	2 * Boom telescoping cylinders
	4 * Outrigger jack cylinders
	4 * Outrigger horizontal expanding cylinder
Oil tank capacity :	250 liter



SAFETY DEVICES :

1. Pressure relief valve for hydraulic circuit
2. Counter-balance valve for boom raising and boom telescoping cylinders
3. Pilot-operated check valves for vertical outrigger cylinders
4. Boom angle indicator with load indicator
5. Hook safety latch
6. Automatic mechanical brake for winch
7. Hydraulic swing lock system
8. Over-winding alarm (Option)

OPTIONAL FEATURES :

1. Jib boom : 4m (folding type)
2. Auxiliary winch : single line pull 2,000kgf (planetary gear type)
3. Remote controller
4. Hook & weight : for single line pull or double load line
5. Over-winding alarm

Note; 1. The figures in relation to the speed are on the basis of no-load running at rated oil flow condition.
2. In accordance with our policy of constant improvement, all specifications are subject to change without notice or obligation.

SOOSAN

Rated Load Chart

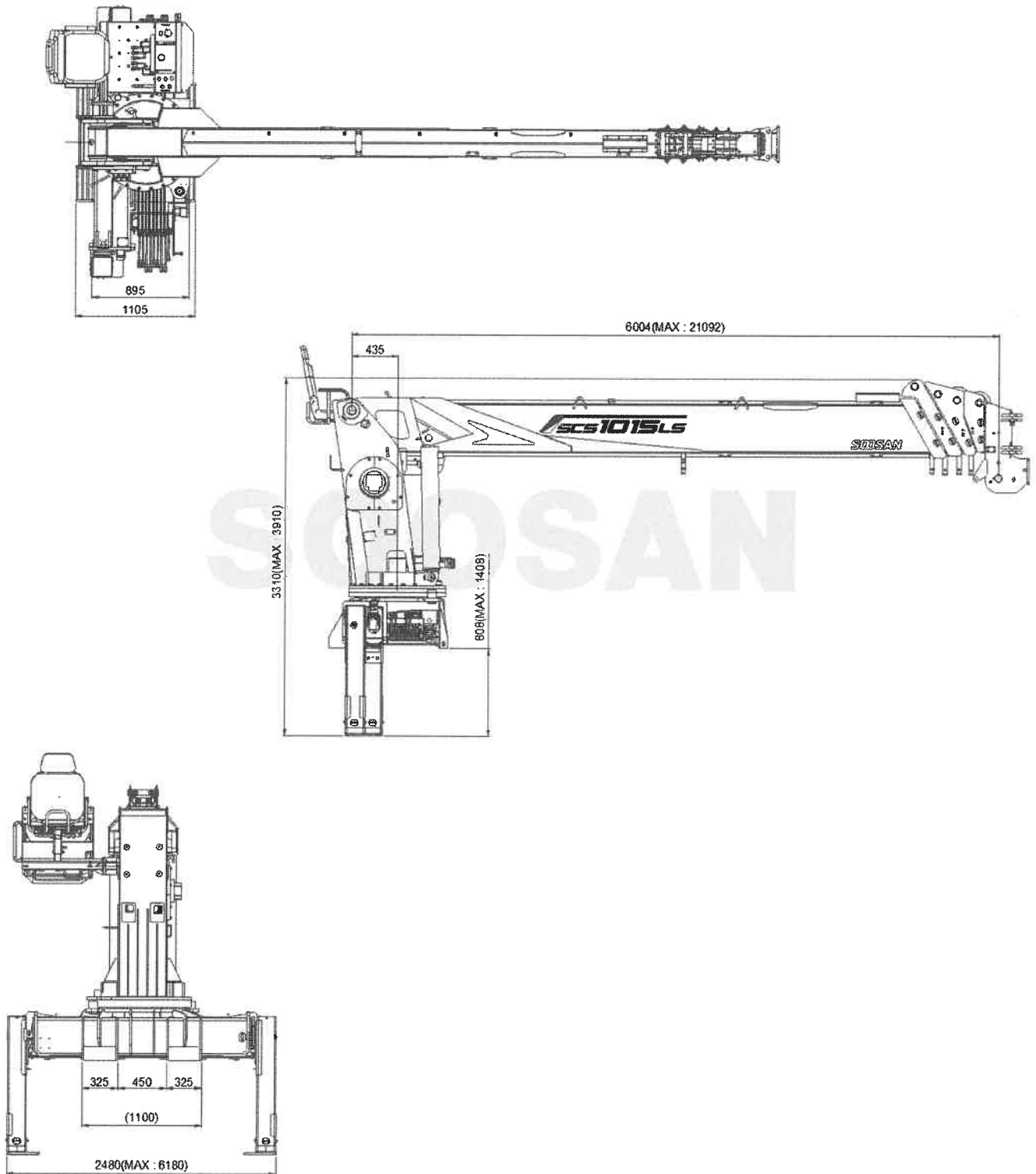
Rated Load-Chart SCS 1015LS

Unit : kgf

Working Radius	Boom Length					
	6.0 m	9.8 m	13.6m	17.3m	21.1m	(SUB) 24.9m
2.0	12,000	9,500	6,500			
3.0	10,000	7,650	6,500	5,700		
4.0	8,400	6,400	5,500	4,950	4,300	2,000
5.0	7,100	5,600	4,750	4,350	3,900	2,000
6.0	6,000	5,000	4,250	3,850	3,500	1,700
7.0	(5.6m)	4,450	3,850	3,450	3,150	1,500
8.0		3,950	3,500	3,150	2,900	1,300
9.0		3,350	3,200	2,900	2,650	1,100
10.0		3,100	2,950	2,700	2,450	1,000
11.0		(9.4m)	2,700	2,500	2,300	900
12.0			2,450	2,350	2,150	800
13.0			1,950	2,200	2,000	700
14.0			(13.1m)	2,050	1,900	650
15.0				1,900	1,800	600
16.0				1,700	1,700	
17.0				1,400	1,600	
18.0				(16.9m)	1,500	
19.0					1,400	
20.0					1,250	
20.7					1,030	

() : Working radius

Crane Dimensions



Working Radius Range

