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SOOSAN TRUCK MOUNTED CRANE

SCS1516S TOP

Specification Sheet / 31 July, 2025

SOOSAN

SOOSAN Crane Specification

Applicable Truck-Chassis ;	14ton and above (pay-load capacity)
Crane operating weight :	7,669kg (including Rear Outrigger and mounting parts)
(Only Crane net weight :	6,077kg with Front Outrigger, Not Hook)
CRANE CAPACITY :	Max. 47ton.m
Lifting capacity / radius :	Max. 15,000kgf / 2m
Tip / Sheave height	
Above ground level :	Max. 28.5m
Below ground level :	Max. 27.5m with 4 part line
Working radius :	Min. 1.25m to Max. 25.0m
BOOM :	Six-section box beam type telescoping boom
Boom length	
Retracted boom :	6.42m
Extended boom :	25.42m
Boom extending speed :	19m / 62sec
Boom raising speed :	0° to 80° / 34sec
WINCH :	2-Speed hydraulic motor driven, planetary gear reduction, with hydraulic multi-disk brake and Winch Guide Roller
Single line pull :	2,500kgf at 5 th layer (24.5kN at low speed)
Hoisting speed	
Single line speed :	avg. 28(low), 48(high)m/min
Sheave (hook) speed :	avg. 7(low), 12(high)m/min with 4-part line
Sheave (hook) block :	16,000kgf capacity, 3 sheaves with safety latch
Wire rope	
Construction (JIS) :	19x7 Grade C
Diameter * Length :	14mm * 120m
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 :	1.8rpm

**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 :	2.30m
Extended :	6.35m
Rear	
Retracted :	2.4m
Extended :	5.0m

HYDRAULIC SYSTEM :

Hydraulic pump	
Type :	Gear pump
Rated pressure :	220kgf/cm ² (21.58MPa)
Rated delivery :	100X100 liter/min
Rated revolution :	1,000rpm
Hydraulic valves	
Control valve :	Multiple control valve, spring centered spool-type with pressure relief valve
Pressure relief valve setting :	220kgf/cm ² (21.58MPa)
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 3 * Boom telescoping cylinders 4 * Outrigger jack cylinders 4 * Outrigger horizontal expanding cylinder
Oil tank capacity :	250 liter



SAFETY DEVICES :

boom

outrigger

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

OPTIONAL FEATURES :

1. Jib boom : 3m (folding type)
2. Auxiliary winch : single line pull 800kgf or single line pull 1,500kgf
3. Bucket : for 2 persons
4. Remote controller(with MCV Complete Set)
5. Over-winding alarm
6. Over winding / Loading prevention system
7. AML System (Load Moment Limiter)

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.

Rated Load Chart

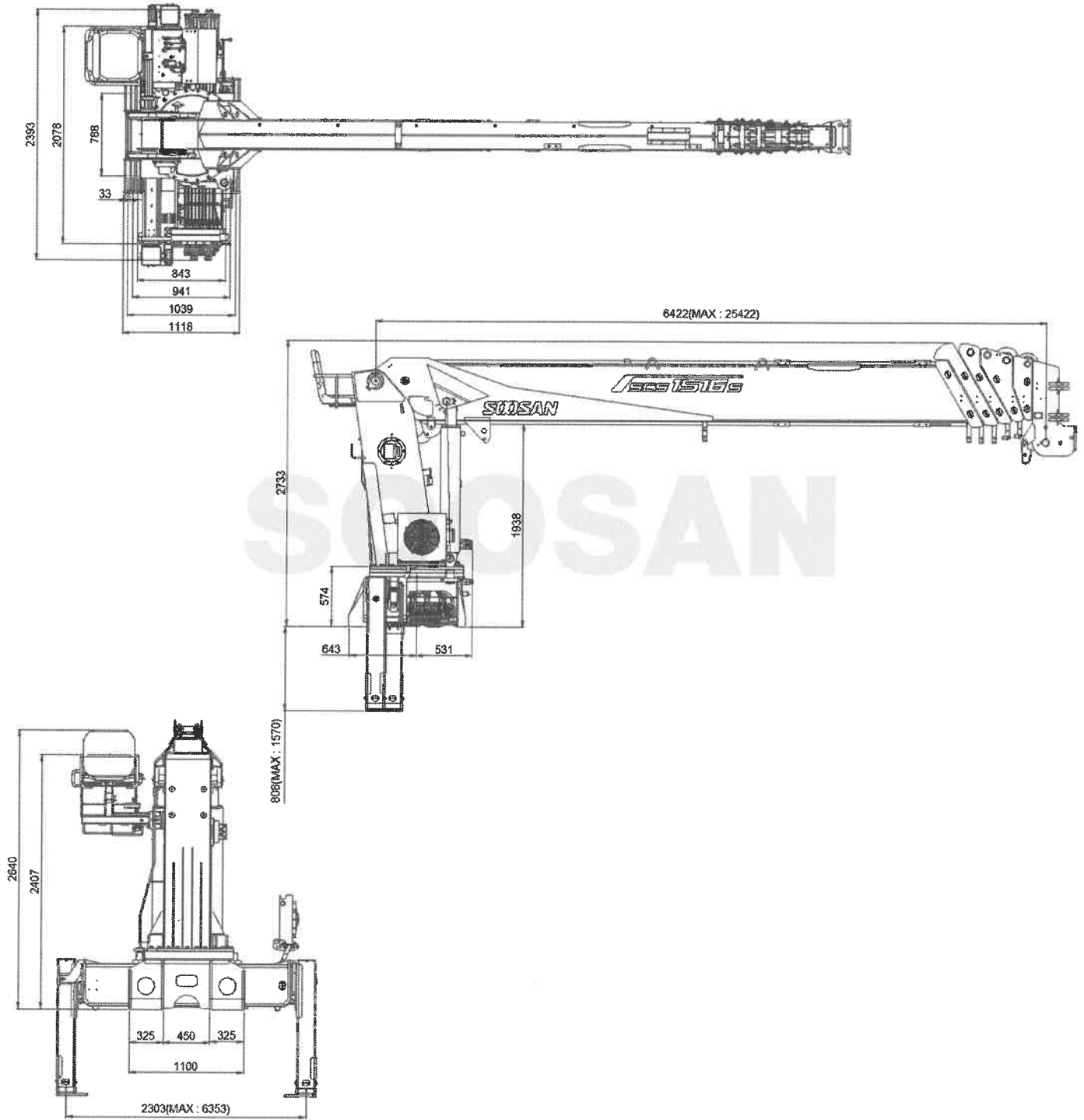
Rated Load-Chart SCS1516S

Unit : kgf

Working Radius	Boom Length						
	6.42 m	10.22 m	14.02 m	17.82 m	21.62 m	25.42 m	SUB BOOM
2.0	15,000 (2,700)						
3.0	11,210 (2,700)	8,450 (2,700)					
4.0	9,510 (2,700)	7,250 (2,700)	6,680 (2,700)				
5.0	8,540 (2,700)	6,560 (2,700)	5,580 (2,700)	5,380 (2,700)			2,000
6.0	7,830 (2,700) (6.0)	5,800 (2,700)	5,070 (2,700)	4,710 (2,700)	4,440 (2,700)		1,700
7.0		5,400 (2,700)	4,500 (2,700)	4,100 (2,700)	3,880 (2,700)	3,700 (2,700)	1,500
8.0		4,930 (2,700)	4,170 (2,700)	3,840 (2,700)	3,540 (2,700)	3,310 (2,700)	1,300
9.0		4,660 (2,700)	3,720 (2,700)	3,420 (2,700)	3,190 (2,700)	3,010 (2,700)	1,100
10.0		4,350 (2,700) (9.8)	3,460 (2,700)	3,170 (2,700)	2,830 (2,700)	2,750 (2,700)	1,000
11.0			3,250 (2,700)	2,950 (2,700)	2,700	2,520	900
12.0			3,010 (2,700)	2,760 (2,700)	2,520	2,330	800
13.0			2,850 (2,700)	2,580	2,360	2,150	700
14.0			2,520 (13.6)	2,430	2,210	2,030	700
15.0				2,300	2,090	1,910	600
16.0				2,180	1,990	1,800	500
17.0				2,030	1,900	1,710	400
18.0				1,920 (17.4)	1,810	1,640	
19.0					1,730	1,550	
20.0					1,670	1,490	
21.0					1,440	1,430	
22.0					1,420 (21.2)	1,360	
23.0						1,320	
24.0						1,250	
25.0						1,150 (25.0)	

() : SUB winch, Working radius

Crane Dimensions



Working Radius Range

