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SOOSAN TRUCK MOUNTED CRANE

SCS746L STD / TOP

Specification Sheet / 31 July, 2025

SOOSAN

SOOSAN Crane Specification

Applicable Truck-Chassis ; 7.5ton and above (pay-load capacity)

Crane operating weight : **STD Spec** 3,956kg (including Rear Outrigger and mounting parts)
TOP Seat Spec 4,016kg (including Rear Outrigger and mounting parts)

(Only Crane net weight : **STD Spec** 3,181kg with Front Outrigger, Not Hook)
TOP Seat Spec 3,261kg with Front Outrigger, Not Hook)

CRANE CAPACITY : **Max. 17.5ton.m**

Lifting capacity / radius : Max. 8,000kgf / 2.0m

Tip / Sheave height

Above ground level : Max. 22.6m

Below ground level : Max. 21.8m with 4 part line

Working radius : Min. 0.5m to Max. 19.6m

BOOM : Six-section box beam type telescoping boom

Boom length

Retracted boom : 4.77m

Extended boom : 19.90m

Boom extending speed : 15.1m / 33sec

Boom raising speed : 1.0° to 80° / 12sec

WINCH : Hydraulic motor driven, spur gear reduction, with automatic mechanical brake and Winch Guide Roller

Single line pull : 1,500kgf (14.7kN)

Hoisting speed

Single line speed : 56m/min at 4th layer

Sheave (hook) speed : 14m/min at 4th later with 4-part line

Sheave (hook) block : 16,000kgf capacity, 3 sheaves with safety latch

Wire rope

Construction (JIS) : 19x7 Grade C

Diameter * Length : 10mm * 120m

Braking strength : 7,090kgf (69.5kN)

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 : 2rpm

**OUTRIGGERS :**

Vertical jacks :	Vertical jacks and horizontal beams
Horizontal beams :	Double acting hydraulic cylinders with pilot-operated check valves
Outrigger span	
Front	
Retracted :	2.08m
Extended :	5.39m
Rear	
Retracted :	2.08m
Extended :	4.22m

HYDRAULIC SYSTEM :

Hydraulic pump	
Type :	Gear pump
Rated pressure :	200kgf/cm ² (19.61MPa)
Rated delivery :	65 liter/min
Rated revolution :	1,200rpm
Hydraulic valves	
Control valve :	Multiple control valve, spring centered spool-type, with pressure relief valve
Pressure relief valve setting :	210kgf/cm ² (20.59MPa)
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 :	120 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

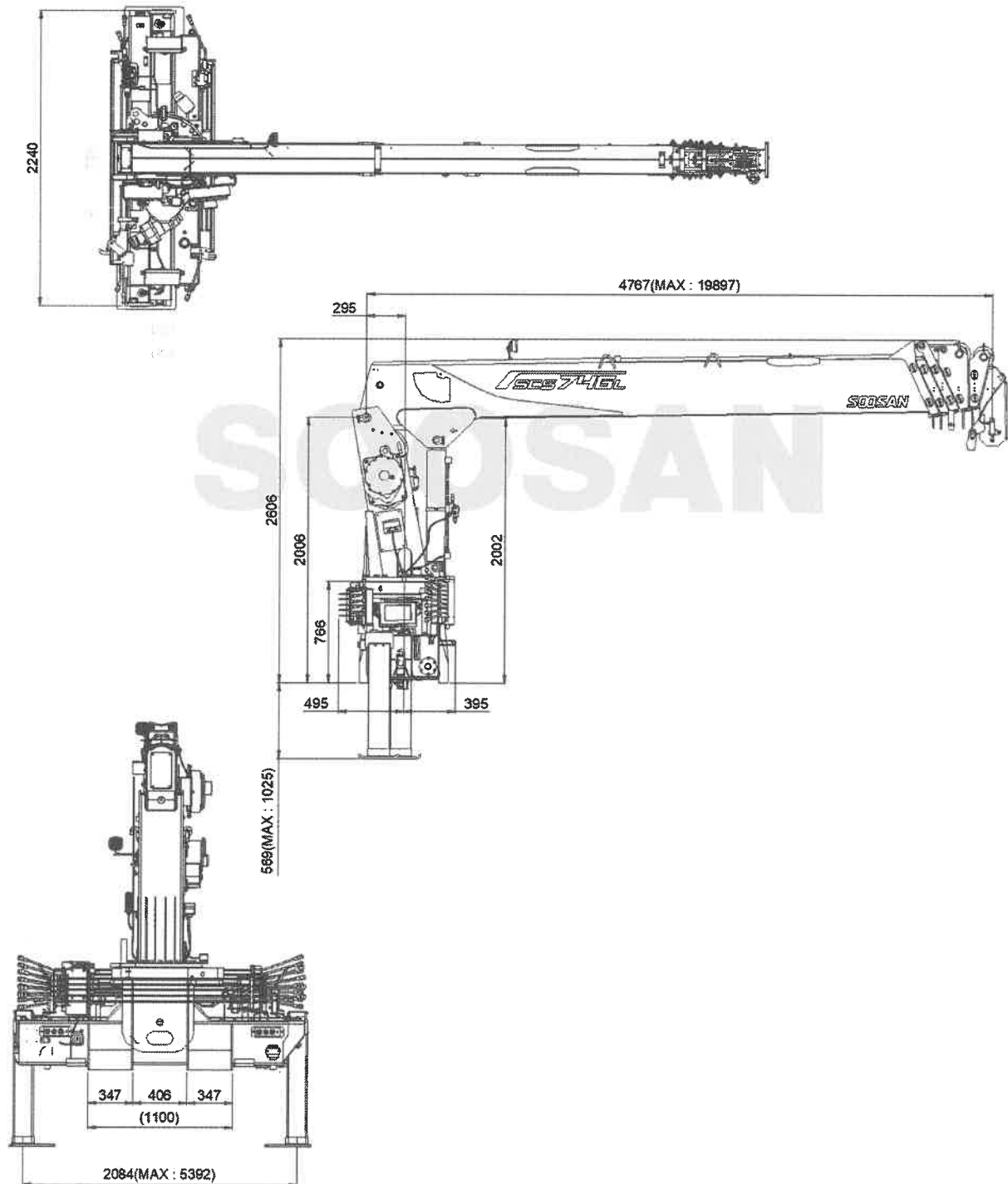
Rated Load-Chart SCS746L

Unit : kgf

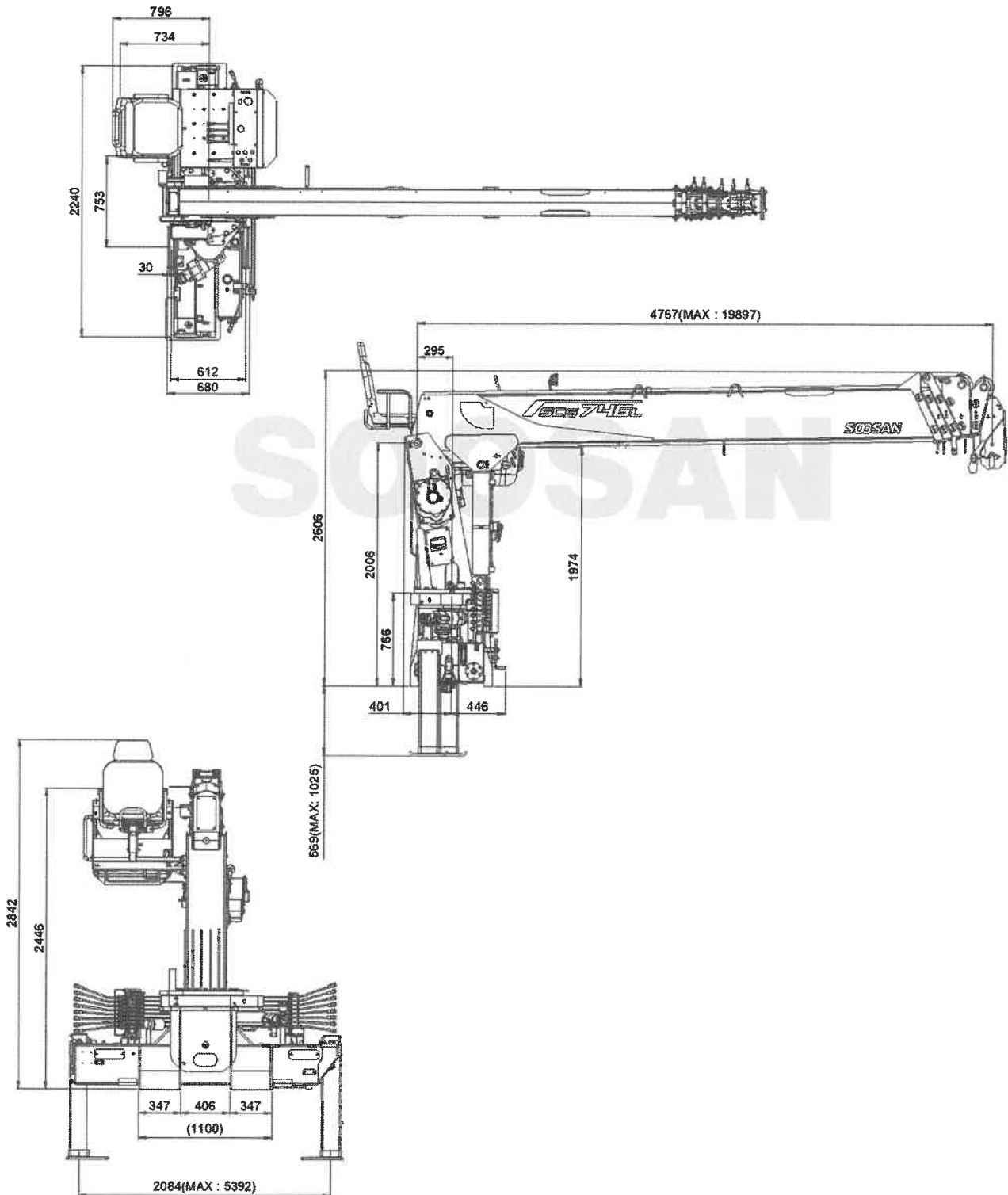
Working Radius	Boom Length					
	4.77 m	7.84 m	10.9 m	13.9 m	16.9 m	19.9 m
2.0	8,000	5,400	3,900			
3.0	5,700	5,400	3,900	2,290	2,000	
4.0	4,250	4,000	3,500	2,290	2,000	1,300
5.0	(4.47) 3,800	3,150	3,040	2,290	2,000	1,300
6.0		2,600	2,450	2,250	2,000	1,300
7.0		2,210	2,060	1,860	1,700	1,300
8.0		(7.54) 2,050	1,750	1,560	1,400	1,110
9.0			1,510	1,330	1,200	970
10.0			1,320	1,160	1,050	870
11.0			(10.6) 1,200	1,020	940	790
12.0				920	840	720
13.0				840	750	660
14.0				(13.6) 800	680	610
15.0					620	560
16.0					580	520
17.0					(16.6) 550	480
18.0						450
19.0						420
19.6						400

() : Working radius

Crane Dimensions



Crane Dimensions



Working Radius Range

