



ISO 9001 ; 2008

# CS Telescopic Boom Crane Series

Applicable for the Light and Medium duty truck



# Greetings

Since established in 1997, CS Machinery Co., Ltd. has been engaged in developing, producing, and exporting its own truck mounted hydraulic boom cranes to many different countries, based on more than 28 years of distinct hydraulic technology under the company philosophy of the **BEST TALENT** / the **BEST TECHNOLOGY** / the **BEST QUALITY** along with Customer Satisfaction Management. CS Machinery is one of the top four crane manufacturers in Korea with strong confidence from customers at home and abroad. In the end, we will become a front runner, by leading customer satisfaction management, to create the living and working environment for the new century based on mutual confidence and advanced technology.

CS Machinery Co., LTD.



Tae Young Kim / President



# Mutual Confidence and Advanced Technology Applicable for the light and medium duty truck

We, CS Machinery believe that our customers will be satisfied with the most qualified small-sized telescopic boom crane models having with the practicality and the high performance in its class.

## ■ Several safety Features are standard, including...

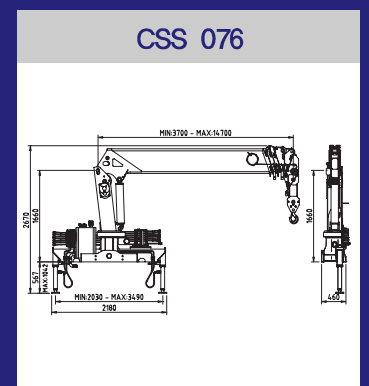
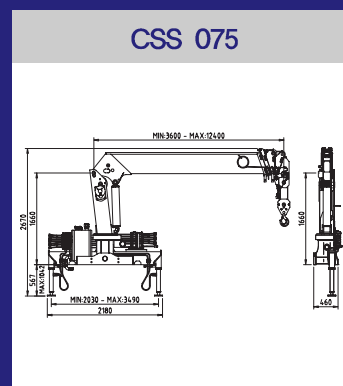
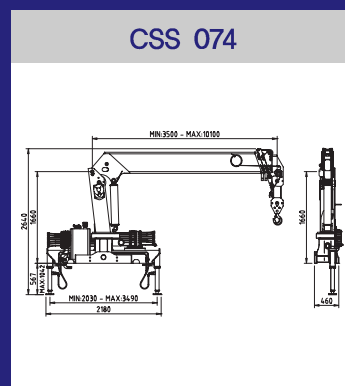
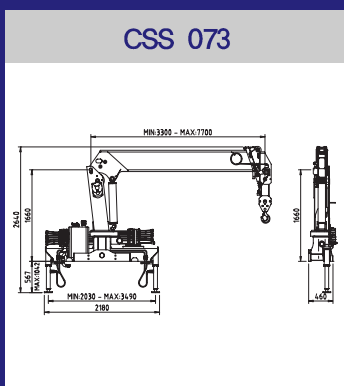
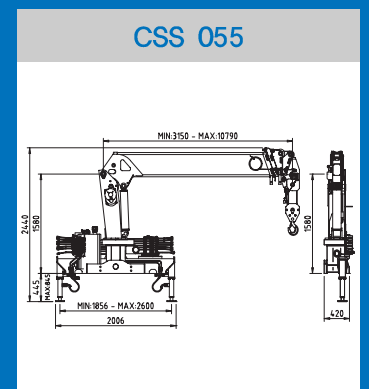
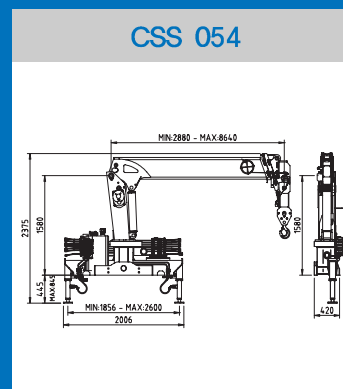
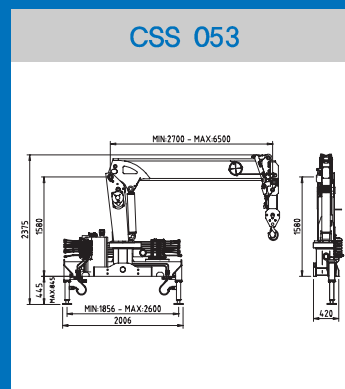
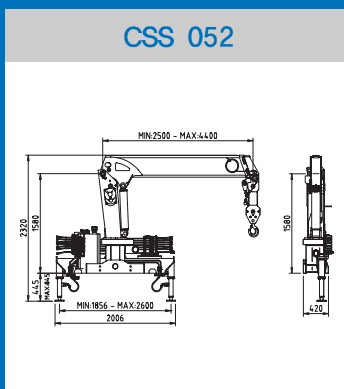
- Cross control system that is designed to allow the same control lever sequence on both side of the crane.
- Pilot-operated counter balance valves that are mounted directly on the derrick and extension cylinders.
- Winch reduction gear with mechanical break.
- Slewing reduction gear with worm self locking break.
- Multiple control valves with integral safety valve.
- Lifting angle indicator.
- Hook safety latch.
- Over-winding device.

## ■ Optional Features are including...



- Optional maneuvering system of top-seat provides operator with clear visibility for safe cargo handling.
- Additional jib boom of 3 meters long or more is provided for ultra-high needs.
- Additional winch system provides operators with speedy single-line work.
- Additional outrigger system, usually mounted on rear side, can be provided for safe work.
- Several optional features if required for more comfortable and safe work.






DESCRIPTION	UNITS	CSS 052	CSS 053	CSS 054	CSS 055	CSS 073	CSS 074	CSS 075	CSS 076
Lifting Capacity	ton-meter	4.5	4.4	4.4	4.2	7.6	7.4	7.2	7.1
Lifting Capacity / Outreach	kg/m	2250 / 2.0	2230 / 2.0	2170 / 2.0	2050 / 2.0	3440 / 2.0	3290 / 2.0	3220 / 2.0	3150 / 2.0
		1390 / 3.0	1300 / 3.0	990 / 4.0	920 / 4.0	1150 / 6.0	1070 / 6.0	1010 / 6.0	850 / 6.0
		800 / 4.2	820 / 5.0	620 / 6.0	550 / 6.0	810 / 7.5	780 / 8.0	720 / 8.0	600 / 8.0
			490 / 6.3	300 / 8.5	160 / 10.6		530 / 10.0	350 / 12.2	180 / 14.5
Working Radius	m	4.2	6.3	8.5	10.6	7.5	10.0	12.2	14.5
Max. Working Height	m	5.7	7.8	10.0	12.1	9.3	11.8	14.0	16.3
Rated Oil Flow, Recommended	cc/rev	34	34	34	34	34	34	34	34
Working Pressure	kg / cm <sup>2</sup>	190	190	190	190	190	190	190	190
Oil Tank Capacity	ℓ	25	25	25	25	32	32	32	32
Shape Of Boom		Hexagonal box construction, 2 sections	Hexagonal box construction, 3 sections	Hexagonal box construction, 4 sections	Hexagonal box construction, 5 sections	Hexagonal box construction, 3 sections	Hexagonal box construction, 4 sections	Hexagonal box construction, 5 sections	Hexagonal box construction, 6 sections
Boom Length	m	Min.2.5~Max.4.4	Min.2.7~Max.6.5	Min.2.9~Max.8.6	Min.3.2~Max.10.8	Min.3.3~Max.7.7	Min.3.5~Max.10.1	Min.3.6~Max.12.4	Min.3.7~Max.14.7
Boom Extending Speed	m / sec	1.9 / 11	3.8 / 11	5.7 / 22	7.6 / 22	4.4 / 8	6.6 / 15	8.8 / 15	11.0 / 25
Boom Raising Speed	° / sec	0~78 / 8	0~78 / 8	0~78 / 8	0~78 / 8	0~78 / 8	0~78 / 8	0~78 / 8	0~78 / 8
Slewing Angle	°	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous	360° continuous
Slewing Speed	r.p.m.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Wire Rope	∅ x m	8 x 40	8 x 45	8 x 55	8 x 65	8 x 55	8 x 65	8 x 75	8 x 85
Hook Speed	m / min	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)
Winch Type		Hyd. Motor driven, spur gear speed reduction with mechanical brake							
Single Line Pull	kg	600				750			
Slewing Reduction Gear Type		Hyd. Motor driven, worm gear speed reduction with worm self locking brake							
Outrigger Type		Manually extended sliders and hydraulically extended jacks							
Outrigger Span, Main	Ext m	2.6				3.5			
	Ret m	1.86				2.0			
Truck chassis, Recommended	GVW(ton)	5	5	5	5	5	5	5	5
Optional feature		(1) Rear outrigger system (2) Personal Basket (3) Several options if required for comfortable and safe work (4) Hydraulic Pump							







**CSS052 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	2250	1630 (2.3)												
2ND 	(kg)		1390	1010	800 (4.2)										






**CSS053 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	2230	1490 (2.5)												
2ND 	(kg)	1350	1350	1040	750 (4.4)										
3RD 	(kg)		1260	990	820	640	490 (6.3)								




**CSS054 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	2170	1350 (2.6)												
2ND 	(kg)	1800	1300	990	660 (4.6)										
3RD 	(kg)		720	720	720	610	420 (6.6)								
4TH 	(kg)		720	720	720	620	530	430	300 (8.5)						





**CSS055 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	2050	1150 (2.9)												
2ND 	(kg)	1710	1210	920	540 (4.9)										
3RD 	(kg)	720	720	720	690	550	330 (6.8)								
4TH 	(kg)		720	720	670	550	460	370	230 (8.7)						
5TH 	(kg)		720	720	640	530	450	380	320	260	160 (10.6)				






**CSS073 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	3440	2490	2210 (3.1)											
2ND 	(kg)	2860	2130	1740	1420	1190 (5.3)									
3RD 	(kg)	2600	1940	1570	1320	1150	990	810 (7.5)							







**CSS074 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	3290	2470	1960 (3.4)											
2ND 	(kg)	2750	2040	1640	1360	1050 (5.6)									
3RD 	(kg)	2550	1850	1480	1240	1070	930	710 (7.8)							
4TH 	(kg)	2370	1760	1400	1160	1000	880	780	700	530					

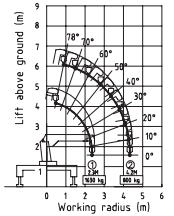
**CSS075 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	3220	2400	1890 (3.4)											
2ND 	(kg)	2700	1960	1560	1280	970 (5.6)									
3RD 	(kg)	2480	1780	1410	1180	1010	860	640 (7.8)							
4TH 	(kg)	2350	1700	1330	1100	940	820	720	630	460					
5TH 	(kg)		1630	1270	1040	890	770	690	610	550	490	400	350 (12.2)		

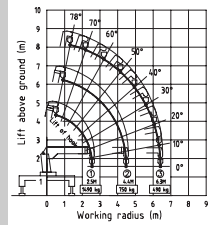
**CSS076 TYPE RATED LOADS**

BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
ALL 	(kg)	3150	2340	1770 (3.5)											
2ND 	(kg)	2600	1860	1470	1190	860 (5.7)									
3RD 	(kg)	2350	1650	1270	1030	850	710	480 (7.9)							
4TH 	(kg)	2000	1580	1210	980	820	700	600	520	400	340 (10.1)				
5TH 	(kg)		1550	1170	950	790	670	580	510	450	390	320	250 (12.3)		
6TH 	(kg)			1150	920	770	660	570	500	440	390	350	300	250	180 (14.5)

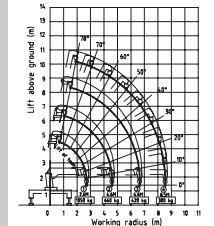
CSS 052



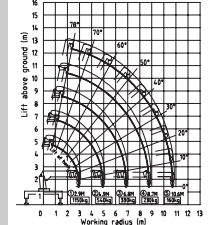
CSS 053



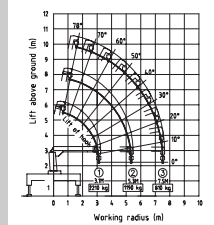
CSS 054



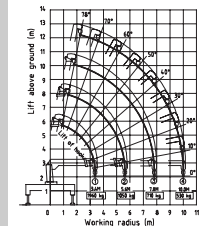
CSS 055



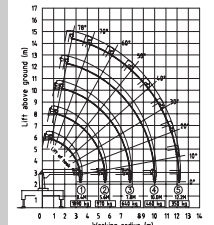
CSS 073



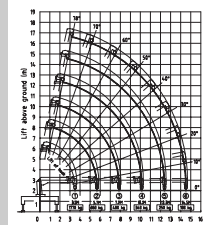
CSS 074



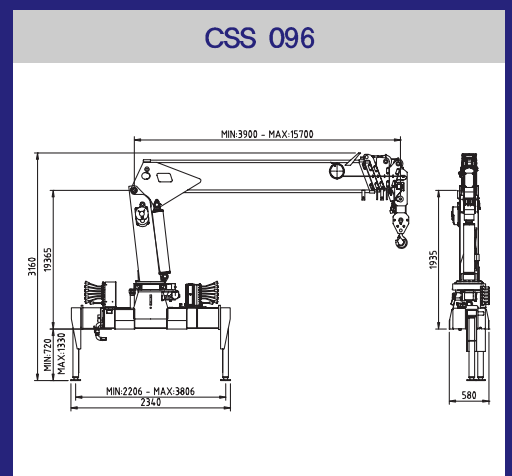
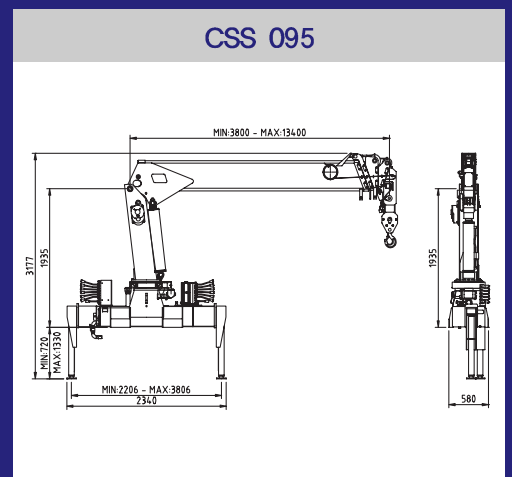
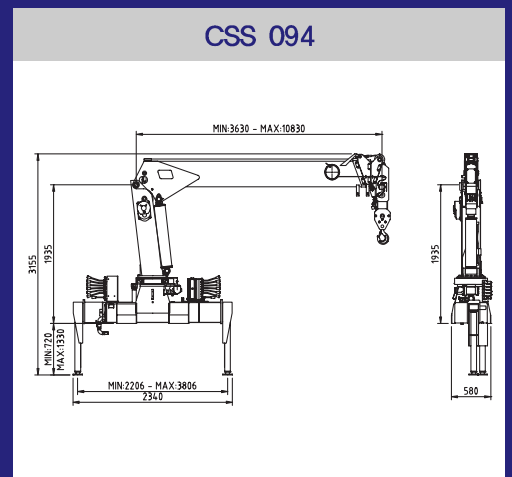
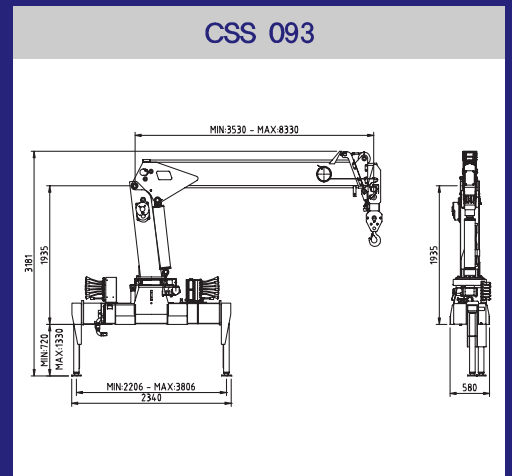
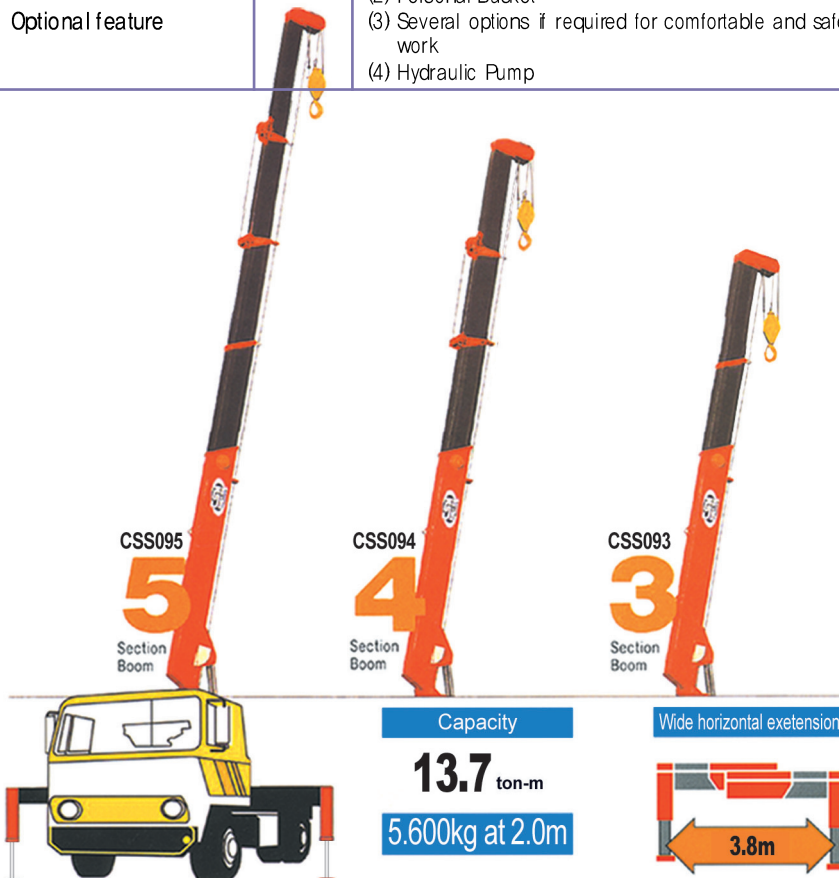
CSS 075









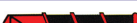
CSS 076














DESCRIPTION	UNITS	CSS 093	CSS 094	CSS 095	CSS 096
Lifting Capacity	ton-meter	13.9	13.7	13.3	13.1
Lifting Capacity / Outreach	kg/m	5800 / 2.0	5600 / 2.0	5420 / 2.0	5190 / 2.0
		2200 / 6.0	2100 / 6.0	1940 / 6.0	1540 / 6.0
		1390 / 8.1	1220 / 10.0	1110 / 10.0	860 / 10.0
			1000 / 10.6	650 / 13.2	320 / 15.5
Working Radius	m	8.1	10.6	13.2	15.5
Max. Working Height	m	10.3	12.8	15.4	17.7
Rated Oil Flow, Recommended	cc/rev	45	45	45	45
Working Pressure	kg / cm <sup>2</sup>	200	200	195	190
Oil Tank Capacity	ℓ	80	80	80	80
Shape Of Boom		Hexagonal box construction, 3 sections	Hexagonal box construction, 4 sections	Hexagonal box construction, 5 sections	Hexagonal box construction, 6 sections
Boom Length	m	Min.3.5~Max.8.3	Min.3.6~Max.10.8	Min.3.8~Max.13.4	Min.3.9~Max.15.7
Boom Extending Speed	m / sec	4.8 / 10	7.2 / 20	9.6 / 20	11.8 / 30
Boom Raising Speed	° / sec	0~78 / 12	0~78 / 12	0~78 / 12	0~78 / 12
Slewing Angle	°	360° continuous	360° continuous	360° continuous	360° continuous
Slewing Speed	r.p.m.	2.5	2.5	2.5	2.5
Wire Rope	∅ x m	8x55	8x70	8x85	8x95
Hook Speed	m / min	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)	17 (4fall lines)
Winch Type		Hyd. Motor driven, spur gear speed reduction with mechanical brake			
Single Line Pull	kg	800			
Slewing Reduction Gear Type		Hyd. Motor driven, worm gear speed reduction with worm self locking brake			
Outrigger Type		Manually extended sliders and hydraulically extended jacks			
Outrigger Span, Main	Ext	m			
	Ret	m			
Truck chassis, Recommended	GVW(ton)	10	10	10	10
Optional feature		(1) Rear outrigger system (2) Personal Basket (3) Several options if required for comfortable and safe work (4) Hydraulic Pump			

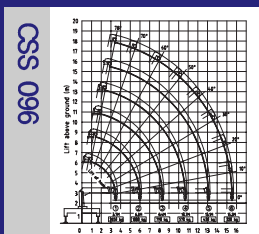
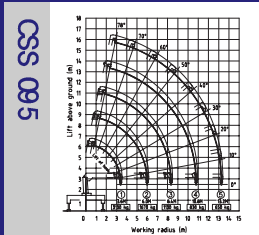
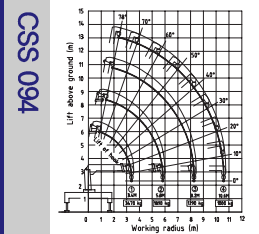
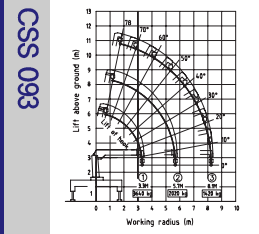


CSS093 TYPE RATED LOADS																
BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
ALL 	(kg)	5800	4600	3640 (3.3)												
2ND 	(kg)	5400	4030	3250	2720	2020 (5.7)										
3RD 	(kg)		3680	2970	2530	2200	1930	1560	1420 (8.1)							

CSS094 TYPE RATED LOADS																
BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
ALL 	(kg)	5600	4560	3470 (3.4)												
2ND 	(kg)	5220	3910	3150	2620	1890 (5.8)										
3RD 	(kg)	4750	3600	2900	2440	2100	1840	1510	1290 (8.2)							
4TH 	(kg)			2200	2200	1980	1750	1560	1400	1220	1000 (10.6)					

CSS095 TYPE RATED LOADS																
BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
ALL 	(kg)	5420	4320	3130 (3.6)												
2ND 	(kg)	5000	3660	2940	2430	1670										
3RD 	(kg)	4690	3400	2700	2260	1940	1690	1410	1130 (8.4)							
4TH 	(kg)		2200	2200	2120	1810	1600	1430	1270	1110	830 (10.8)					
5TH 	(kg)			2200	2020	1730	1510	1350	1220	1100	1000	890	740	650 (13.2)		

CSS096 TYPE RATED LOADS																
BOOM RADIUS (m)		2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
ALL 	(kg)	5190	3800	2650 (3.7)												
2ND 	(kg)	4380	3200	2510	2050	1330										
3RD 	(kg)	4050	2870	2240	1830	1540	1300	1050	790 (8.4)							
4TH 	(kg)		2200	2150	1750	1490	1280	1120	980	830	570 (10.7)					
5TH 	(kg)			2100	1700	1440	1240	1090	960	860	760	670	510	430 (13.1)		
6TH 	(kg)			2050	1660	1400	1210	1060	940	850	760	690	620	550	460	320 (15.5)





# CS Machinery Co., Ltd.



## Head office / Cheongwon Factory

Address : 109-8 Jangjaegeumdae-ro, Buk-e, Cheongwon, Cheongju, Chungbuk, Korea

Former Address : 228-6 Keum-am, Buk-e, Cheongwon, Chungbuk, Korea

TEL : +82-43-211-6003 FAX : +82-43-211-7003

Homepage : [www.csmltd.co.kr](http://www.csmltd.co.kr)

E-mail : [csmltd@csmltd.co.kr](mailto:csmltd@csmltd.co.kr)

[CSMLTD@hitel.net](mailto:CSMLTD@hitel.net)

## Daegu Factory

Address : 10, Seongseoseo-ro 42gil, Dalseo-gu, Daegu, Korea

TEL : +82-53-591-7117 FAX : +82-53-591-7118