

KNUCKLE BOOM

Crane Capacity **2.98t x 1.8m**
 Max. Working Radius **14.3m**
 Max. Lifting Height **16.95m**
 (1.0t x 5.2m with Jib)

NEW

Specifications

Model		MK3053C	
Crane capacity Main boom / Jib		2.98t x 1.8m / 1.0t x 5.2m	
Max. working radius Main boom / Jib		9.4m / 14.3m	
Max. lifting height (on the ground) Main boom / Jib		12.0m / 16.95m	
Boom	Telescopic system	Fully automatic 5-section pentagonal telescopic boom	
	Boom length	3.1m - 10.3m	
	Boom telescoping stroke / time	7.2m / 45.4sec for Diesel, 42.3sec for Battery	
Boom hoist system	Hoist angle / time	0 to 85deg / 26sec	
	Type	Fully automatic 3-section pentagonal telescopic jib	
Jib	Telescopic system	Fully automatic 3-section pentagonal telescopic jib	
	Jib length	2.3m - 4.8m	
	Jib telescoping stroke / time	2.5m / 18.6sec	
Jib hoist system	Hoist angle / time	195deg / 17.5sec	
Slew system	Slew angle / time	360deg / 1.3rpm for Diesel, 1.4rpm for Battery	
Winch system	Hook speed	40.4m/min for Diesel, 39.8m/min for Battery (4 layers, single fall)	
Outrigger system	Type	Hydraulic cylinder direct acting type	
	Max. extended width (outer dims)	(Lateral) 4,665x (Front) 4,740x (Rear) 4,800mm	
	Extended position	Multi (stepless)	
Travel system	Type	Hydraulic motor driven, stepless speed changer	
	Travel speed	0 - 2.4km/h	
	Gradability NARROW / WIDE (STD)	17.5deg / 24.7deg	
	Crawler ground length x width	950mm x 180mm	
	Gauge width	780mm - 1,050mm	
	Ground pressure	83.4kpa [0.85kgf/cm ²]	
Engine (Diesel / Diesel + Electric)	Model	KUBOTA Z482-E4B	
	Displacement	0.479L [479cc]	
	Rated output	7.2kw/2,600min ⁻¹ [9.8ps/2,600rpm]	
Electric Motor (Diesel + Electric)	Motor type	Totally enclosed fan-cooled motor 4.0kw, 4P 380 V(200-415V)	
	Type	Lithium Titanate Battery	
Battery system (Battery spec)	5-hour rate capacity	DC55V-135Ah, 7.4kWh	
	Input Voltage / current	Single phase AC200V/16A, AC100V/14A	
	Charging time	with AC-200V	80%:2h20min / 100%:3h30min
		with AC-100V	80%:5h20min / 100%:7h00min
	Operating time	Up to a full working day if charged during operation	
	Charging during operation	Available	
Remote control system	Type	Paddle type radio & Proportional control	
Overall length x width x height	3,195mm x 780mm x 1,945mm		
Machine weight (Diesel + Electric / Diesel, Battery)	2,900kg / 2,875kg		
Optional equipment	EBU075 (extra battery unit), Black or White rubber tracks (depends on spec)		

Rated Total Load Chart for 4 Falls with Main Boom unit:kg

Working Radius (m)	2.95m Boom			4.76m Boom			6.57m Boom			8.38m Boom			10.19m Boom		
	OR Extended Position														
	Max.	Mid.	Min.	Max.	Mid.	Min.									
1	2980	2980	2980	2570	2570	2570	2380	2380	2380	2000	2000	2000	1450	1450	1450
1.5	2980	2980	2980	2570	2570	2570	2380	2380	2380	2000	2000	2000	1450	1450	1450
1.8	2980	2980	2980	2570	2570	2570	2380	2380	2380	2000	2000	2000	1450	1450	1450
2	2865	2865	2865	2570	2570	2570	2380	2380	2380	2000	2000	2000	1450	1450	1450
2.19	2715	2715	2715	2570	2570	2265	2380	2380	2165	2000	2000	2000	1450	1450	1450
2.5				2405	2330	1905	2205	2140	1875	2000	2000	1670	1450	1450	1450
3				2030	2000	1515	1940	1805	1510	1755	1645	1295	1450	1450	1125
3.5				1735	1720	1265	1705	1525	1225	1545	1380	1045	1450	1210	910
4				1500	1490	1085	1490	1290	1005	1360	1165	860	1255	1025	750
4.5							1300	1085	820	1200	990	720	1100	880	630
5							1130	905	670	1060	850	610	965	760	535
5.5							975	750	545	930	725	525	850	660	460
5.81							860	660	475	790	605	420			
6							815	625	450	755	575	395			
6.5							710	535	390	670	500	345			
7							620	455	335	595	440	300			
7.5							530	390	290	525	385	260			
7.62							510	375	285	510	370	250			
8							470	335	230						
8.5										415	290	200			
9										365	255	170			
9.3										340	230	160			
9.43										330	225	155			

*The weight of hook block (30kg) must be included as part of the load shown in the RTL chart.

Rated Total Load Chart for Fixed Hook unit:kg

Boom	Boom Angle (°)	Jib Angle (°)	2.27m Jib			3.54m Jib			4.81m Jib		
			OR Extended Position			OR Extended Position			OR Extended Position		
			Max.	Mid.	Min.	Max.	Mid.	Min.	Max.	Mid.	Min.
3.05m Boom	85	90	950	950	950	950	950	950	950	950	950
		85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
	45	85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
4.86m Boom	85	90	950	950	950	950	950	950	950	950	950
		85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
	67	85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
6.67m Boom	85	90	950	950	950	950	950	950	950	950	950
		85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
	50	85	950	950	950	950	950	950	610	610	610
		55	950*	670	480	710	550	395	610	460	330
		0	800	555	375	590	410	280	445	320	205
		90	900	595	320	900	595	320	900	595	320
		85	850	560	310	820	540	320	610	525	320
		0	800	555	375	590	410	280	445	320	205
8.48m Boom	85	90	950	950	950	950	950	950	950	950	950
		85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
	67	85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
10.29m Boom	85	90	950	950	950	950	950	950	950	950	950
		85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
	67	85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
10.29m Boom	55	85	950	950	950	950	950	950	610	610	610
		55	950	950	950	710	710	710	610	610	610
		0	950	950	950	605	605	605	445	445	445
		90	950	950	950	950	950	950	950	950	950
		0	950	950	950	950	950	950	950	950	950
		0	950	950	950	950					

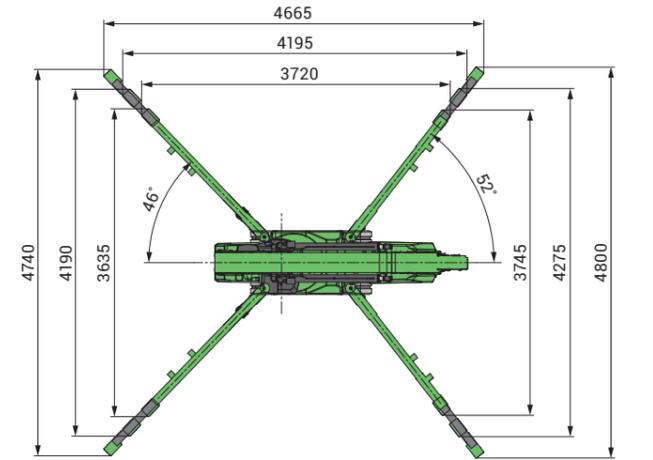
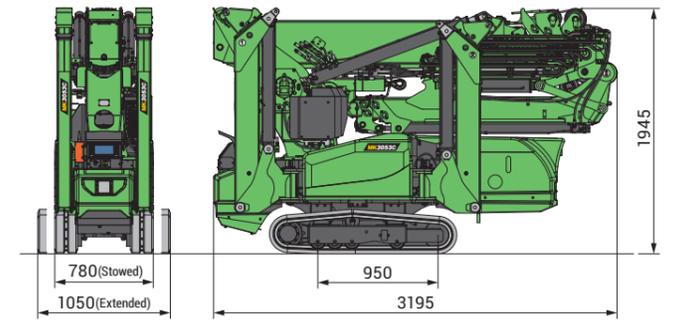
MK3053C

Automatic & Stepless Multi Outrigger Setting
 Fully Proportional Radio Remote Control
 Variable Crawler Gauge
 Main Boom with 4 Falls Hook Mode
 Semi-Automatic Leveling
 Semi-Automatic Jib & Boom Stowing
 Diesel / Electric / Battery spec

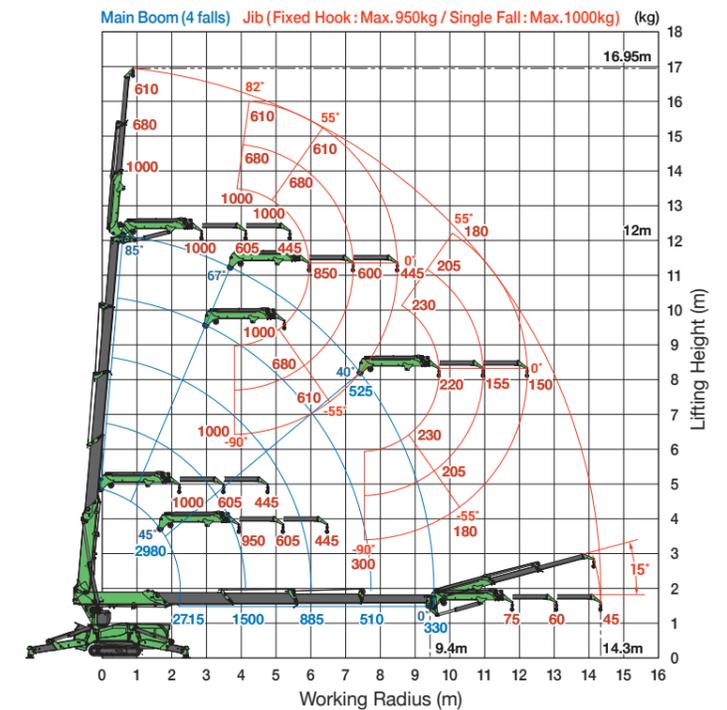
Full Lineup Spec



Dimensions (mm)



Working Range Chart (Outriggers Position : Max.)



Battery

The next-generation spider crane equipped with a variety of new functions

Automatic & Stepless Multi Outrigger Setting



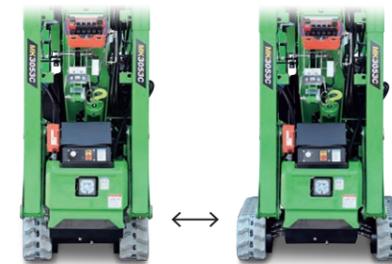
Fully Proportional Radio Remote Control



New Programmable Moment Limiter



Variable Crawler Gauge



Lifting mode variations

Fixed Hook
 Max. Capacity : 950kg



2-ways Jib Head Position

Single Fall
 Max. Capacity : 1,000kg



4 Falls with Main Boom
 Max. Capacity : 2,980kg



Detachable Jib by One Person

Detachable Extra Battery Unit
 EBU075 (Option)

