

Specifications

|  |                                     |   |
|--|-------------------------------------|---|
| Model  |                                     | MK30530   |
| 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                   | Type Fully automatic 5-section pentagonal telescopic boom<br>Boom length 3.1m - 10.3m<br>Boom telescoping stroke / time 7.2m / 45.4sec for Diesel, 42.3sec for Battery  |
|  | Boom hoist system                   | Hoist angle / time 0 to 85deg / 26sec   |
|  | Jib                                 | Telescopic system Type Fully automatic 3-section pentagonal telescopic jib<br>Jib length 2.3m - 4.8m<br>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<br>Max. extended width (outer dims) Lateral 4.665x Front 4.740x Rear 4.800mm<br>Extended position Multi (stepless)   |
| Travel system  |                                     | Type Hydraulic motor driven, stepless speed changer<br>Travel speed 0 - 2.4km/h<br>Gradability NARROW / WIDE (STD) 17.5deg / 24.7deg<br>Crawler ground length x width 950mm x 180mm<br>Gauge width 780mm - 1,050mm<br>Ground pressure 83.4kpa [0.85kgf/cm <sup>2</sup> ]  |
| Engine (Diesel / Diesel + Electric)                  |                                     | Model KUBOTA Z482-E4B<br>Displacement 0.479L [479cc]<br>Rated output 7.2kw/2,600min <sup>-1</sup> [9.8ps/2,600rpm]<br>Fuel Diesel   |
| Electric Motor (Diesel + Electric)                   |                                     | Motor type Totally enclosed fan-cooled motor 4.0kw, 4P 380V (200-415V)<br>Type Lithium Titanate Battery<br>5-hour rate capacity DC55V135Ah, 7.4kWh<br>Input Voltage / current Single phase AC200V/16A, AC100V/14A<br>Charging time with AC-200V 80% 2h20min / 100% 3h30min<br>with AC-100V 80% 5h20min / 100% 7h00min<br>Operating time Up to a full working day if charged during operation<br>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),<br>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               |                      |                      |                      |                      |                      |                      | 885                  | 665                  | 480                  | 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                  | 170  |
| 9.3                |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 340                  | 160  |
| 9.43               |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 330                  | 155  |

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

Before use, please read the Operation Manual \* Due to improvements, the specifications are subject to change without notice.



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  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             | 45             | 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  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
| 4.86m Boom  | 85             | 0             | 950                  | 950  | 780  | 605                  | 605  | 605  | 445                  | 445  | 390  |
|             |                | 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  |
|             | 45             | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 55            | 950                  | 950  | 730  | 710                  | 710  | 625  | 610                  | 610  | 470  |
|             |                | 0             | 950                  | 800  | 510  | 605                  | 560  | 390  | 445                  | 425  | 300  |
|             |                | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
| 6.67m Boom  | 85             | 0             | 725                  | 540  | 300  | 540                  | 410  | 230  | 425                  | 325  | 185  |
|             |                | 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                  | 800  | 510  | 605                  | 560  | 390  | 445                  | 425  | 300  |
|             |                | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             | 45             | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 55            | 950                  | 950  | 730  | 710                  | 710  | 625  | 610                  | 610  | 470  |
|             |                | 0             | 950                  | 800  | 510  | 605                  | 560  | 390  | 445                  | 425  | 300  |
|             |                | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
| 8.48m Boom  | 85             | 0             | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 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                  | 800  | 510  | 605                  | 560  | 390  | 445                  | 425  | 300  |
|             |                | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             | 45             | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 55            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 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  |
| 10.29m Boom | 85             | 0             | 510                  | 355  | 185  | 400                  | 275  | 140  | 325                  | 220  | 115  |
|             |                | 90            | 380                  | 260  | 105  | 300                  | 210  | 80   | 250                  | 170  | 55   |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 55            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 0             | 950                  | 800  | 510  | 605                  | 560  | 390  | 445                  | 425  | 300  |
|             |                | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             | 45             | 90            | 950                  | 950  | 950  | 950                  | 950  | 950  | 950                  | 950  | 950  |
|             |                | 85            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 55            | 950                  | 950  | 950  | 950                  | 950  | 950  | 610                  | 610  | 610  |
|             |                | 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  |

Maximum rated total load of single-fall hook is 1,000kg except \*1 and \*2  
Rated total load of single-fall hook at \*1 and \*2 is 980kg and 975kg respectively

KNUCKLE BOOM

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

NEW

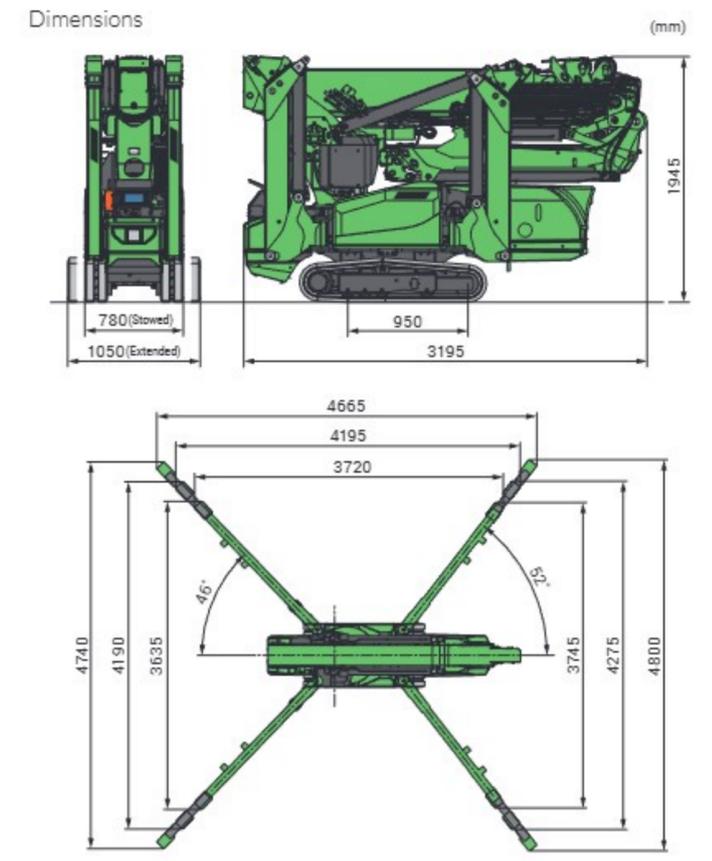




Automatic & Stepless Multi Outrigger Setting  
 Fully Proportional Radio Remote Control  
 Variable Crawler Gauge  
 Main Boom with 4 Falls Hook Mode  
 Semi-Automatic Leveling  
 Semi-Automatic Jib & Boom Stowing  
 Diesel / Electric / Battery spec



Full Lineup Spec



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

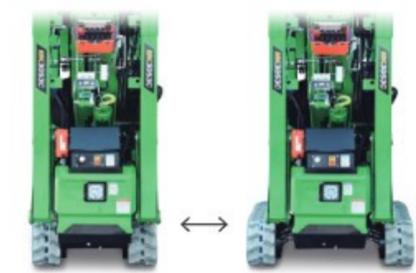
Automatic & Stepless Multi Outrigger Setting



Fully Proportional Radio Remote Control



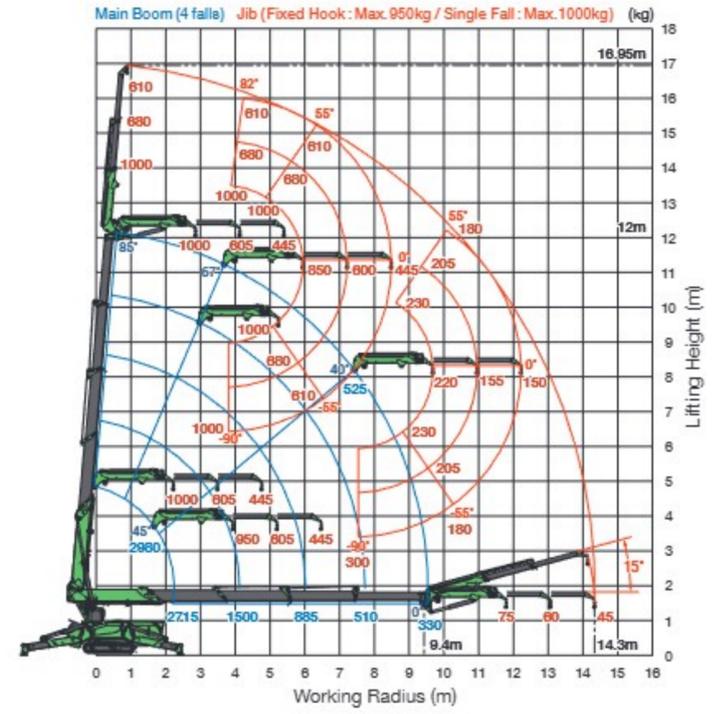
Variable Crawler Gauge



New Programmable Moment Limiter



Working Range Chart (Outriggers Position : Max.)



Detachable Extra Battery Unit EBU075 (Option)

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

Lifting mode variations