



MINI CRANE

# MC285C-3

Crane Capacity

2.82t × 1.4m

Max. working radius

8.205m × 0.15t

Max Lifting Height

8.7m

**NEW**



Slim Body Width : 750mm  
Slew Angle Limit Setting  
Multi Outrigger Positions  
Multi Outrigger Lifting Mode  
Crane/Outrigger Interlock System  
Digital Feedback Remote Control  
4 Fall/2 Fall Hook Block  
EU Stage V Compliant Engine



Paddle Lever  
Radio Remote Control



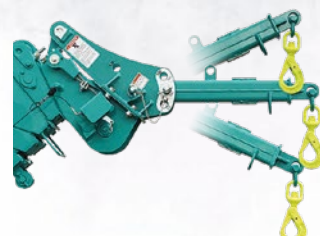
Programmable  
Moment Limiter



Detachable Electric Motor  
(Option)



Auxiliary Winch (Option)

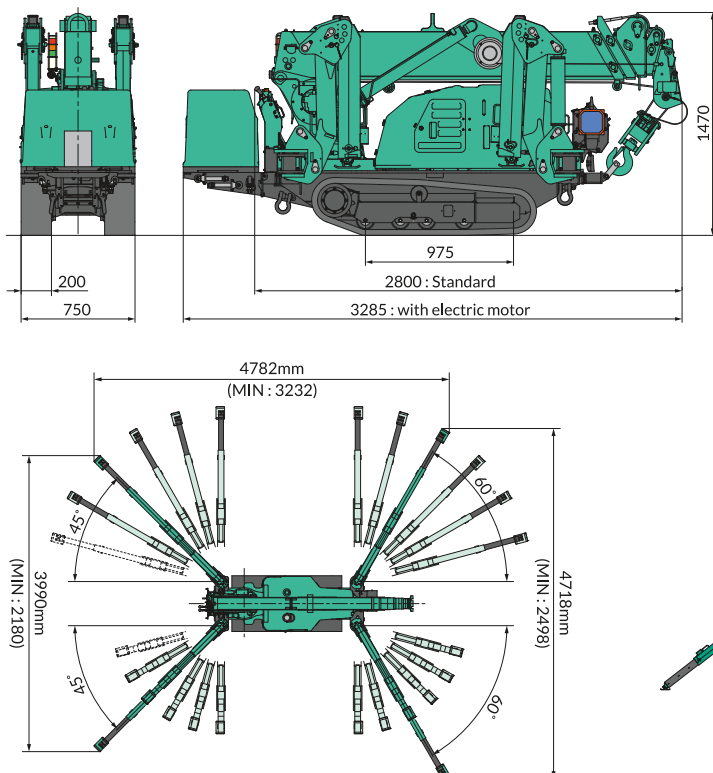


Searcher Hook (Option)

## Specifications

| Model                                                     |                                                     | MC285C-3                                                                                                                                                                                                               |
|-----------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crane capacity                                            |                                                     | 2.82t x 1.4m                                                                                                                                                                                                           |
| Max. working radius                                       |                                                     | 8.205m x 0.15t                                                                                                                                                                                                         |
| Max.lifting height (on the ground)                        |                                                     | 8.7m                                                                                                                                                                                                                   |
| Max.lifting height (underground)                          |                                                     | -10.1m (4 falls)                                                                                                                                                                                                       |
| Max.lifting height (underground)/optional auxiliary winch |                                                     | -100m (single fall)                                                                                                                                                                                                    |
| Winch system                                              | Hook speed                                          | 9.3m/min (4 layers, 4 falls)                                                                                                                                                                                           |
|                                                           | Hoist wire rope                                     | IWRC 6 X Fi (29) 0/0, $\phi$ 748.0m                                                                                                                                                                                    |
| Telescoping system                                        | Type                                                | Fully automatic 5-section pentagonal telescopic boom (3 to 5 section : simultaneous telescoping)                                                                                                                       |
|                                                           | Boom length                                         | 2.535m - 8.575m                                                                                                                                                                                                        |
|                                                           | Boom telescoping stroke / time                      | 6.04m / 22sec                                                                                                                                                                                                          |
| Boom hoist system                                         | Hoist angle / time                                  | 0 to 80deg / 14.0sec                                                                                                                                                                                                   |
| Slew system                                               | Slew angle / time                                   | 360deg / 0.88rpm                                                                                                                                                                                                       |
| Outrigger system                                          | Type                                                | 1st stage with flexible stay damper, 2nd stage manual pullout hydraulic cylinder direct acting type                                                                                                                    |
|                                                           | Max.extended width (between outside of OR adapters) | (Lateral) 4,782mm x (Front) 4,718mm x (Rear) 3,990mm                                                                                                                                                                   |
| Travel system                                             | Type                                                | Hydraulic motor driven , stepless speed changer                                                                                                                                                                        |
|                                                           | Travel speed                                        | 0 - 2.2km/h                                                                                                                                                                                                            |
|                                                           | Gradability                                         | 20deg                                                                                                                                                                                                                  |
|                                                           | Crawler ground length x width                       | 975mm x 200mm                                                                                                                                                                                                          |
| Engine(diesel)                                            | Ground pressure (MC285CWM-3)                        | 50.0kpa (0.510kgf/cm <sup>2</sup> )                                                                                                                                                                                    |
|                                                           | Ground pressure (MC285CWE-3)                        | 54.3kpa (0.554kgf/cm <sup>2</sup> )                                                                                                                                                                                    |
|                                                           | Model                                               | YANMAR 2TNV70-NMBA                                                                                                                                                                                                     |
|                                                           | Displacement                                        | 569cc (0.569L)                                                                                                                                                                                                         |
|                                                           | Rated output                                        | 7.4kw (10.1PS) / 2,500rpm                                                                                                                                                                                              |
|                                                           | Starting method                                     | Electric starting                                                                                                                                                                                                      |
| Motor (MC285CWE-3)                                        | Fuel / Fuel tank capacity                           | Diesel / 12.0L                                                                                                                                                                                                         |
|                                                           | Motor model                                         | IKKH-FBK8G-4P-5.5kw                                                                                                                                                                                                    |
|                                                           | Motor type                                          | Totally enclosed fan-cooled motor 5.5kw, 4P 380V                                                                                                                                                                       |
| Remote control system                                     | Starting system                                     | Inverter system (30Hz-60Hz)                                                                                                                                                                                            |
|                                                           | Type                                                | Radio & paddle type control                                                                                                                                                                                            |
| Overall length x width x height (MC285CWM-3)              |                                                     | 2,800mm x 750mm x 1,470mm                                                                                                                                                                                              |
| Overall length x width x height (MC285CWE-3)              |                                                     | 3,285mm x 750mm x 1,470mm (Detachable E-motor)                                                                                                                                                                         |
| Machine weight (MC285CWM-3)                               |                                                     | 1,990kg (2,160kg with Aux winch)                                                                                                                                                                                       |
| Machine weight (MC285CWE-3)                               |                                                     | 2,160kg (2,330kg with Aux winch)                                                                                                                                                                                       |
| Safety device                                             |                                                     | Overwind protection, Angle indicator, Hydraulic safety valve, Wire rope latch, Level, Machine body inclination alarm, EMO switch, Moment limiter, Working status lamp, Data logger, Crane & Outrigger interlock device |
| Options                                                   |                                                     | White rubber tracks, Single fall hook, 850kg searcher hook, 900kg auxiliary winch                                                                                                                                      |

## Dimensions



\* Due to improvements, the specifications are subject to change without notice.

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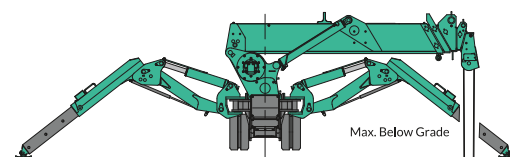
## Rated Total Load Chart (4falls)

| Outrigger extended to maximum |                      |                   |                      |                   |                      |                   |                      |
|-------------------------------|----------------------|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| 2.535m / 4.075m Boom          |                      | 5.575m Boom       |                      | 7.075m Boom       |                      | 8.575m Boom       |                      |
| Working radius(m)             | Rated total load(kg) | Working radius(m) | Rated total load(kg) | Working radius(m) | Rated total load(kg) | Working radius(m) | Rated total load(kg) |
| 1.4 or less                   | 2820                 | 3.0 or less       | 1220                 | 3.6 or less       | 820                  | 4.0 or less       | 550                  |
| 1.5                           | 2520                 | 3.5               | 970                  | 4.0               | 740                  | 4.5               | 400                  |
| 2.0                           | 1920                 | 4.0               | 780                  | 4.5               | 580                  | 5.0               | 340                  |
| 2.5                           | 1570                 | 4.5               | 630                  | 5.0               | 480                  | 5.5               | 300                  |
| 3.0                           | 1220                 | 5.0               | 530                  | 5.5               | 430                  | 6.0               | 270                  |
| 3.5                           | 970                  | 5.205             | 530                  | 6.0               | 380                  | 6.5               | 230                  |
| 3.705                         | 920                  |                   |                      | 6.5               | 350                  | 7.0               | 200                  |
|                               |                      |                   |                      | 6.705             | 330                  | 7.5               | 180                  |
|                               |                      |                   |                      |                   |                      | 8.0               | 150                  |
|                               |                      |                   |                      |                   |                      | 8.205             | 150                  |

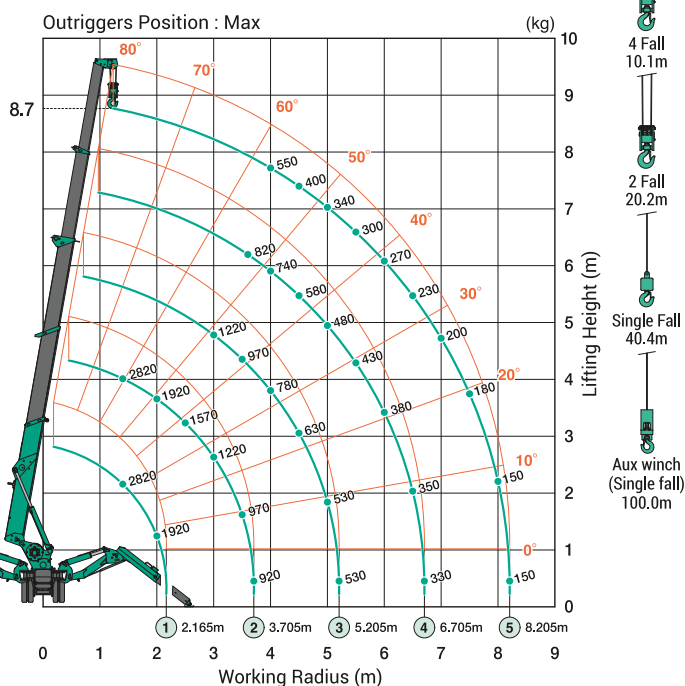
| Outrigger extended to other than maximum |                      |                   |                      |                   |                      |                   |                      |
|------------------------------------------|----------------------|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| 2.535m / 4.075m Boom                     |                      | 5.575m Boom       |                      | 7.075m Boom       |                      | 8.575m Boom       |                      |
| Working radius(m)                        | Rated total load(kg) | Working radius(m) | Rated total load(kg) | Working radius(m) | Rated total load(kg) | Working radius(m) | Rated total load(kg) |
| 1.5 or less                              | 1720                 | 3.0 or less       | 510                  | 3.6 or less       | 400                  | 4.0 or less       | 330                  |
| 2.0                                      | 1070                 | 3.5               | 410                  | 4.0               | 330                  | 4.5               | 280                  |
| 2.5                                      | 630                  | 4.0               | 330                  | 4.5               | 280                  | 5.0               | 230                  |
| 3.0                                      | 520                  | 4.5               | 280                  | 5.0               | 230                  | 5.5               | 180                  |
| 3.5                                      | 390                  | 5.0               | 200                  | 5.5               | 180                  | 6.0               | 160                  |
| 3.705                                    | 350                  | 5.205             | 200                  | 6.0               | 160                  | 6.5               | 130                  |
|                                          |                      |                   |                      | 6.5               | 130                  | 7.0               | 100                  |
|                                          |                      |                   |                      | 6.705             | 120                  | 7.5               | 80                   |
|                                          |                      |                   |                      |                   |                      | 8.0               | 70                   |
|                                          |                      |                   |                      |                   |                      | 8.205             | 60                   |

\* The Rated Total Load Chart is based on actual working radius including boom deflection.  
 \* The weight of hook block (standard 4 fall / 2 fall-30kg) must be included as part of the load shown in the Rated Total Load Chart.  
 \* When using two falls hook or single fall hook, use the appropriate four falls Rated Total Load Chart shown above but with a maximum load of -1410kg for two falls and -710kg for Single fall.

## MAX. Reach Below Ground



## Working Range Chart (4falls)



**Before use, please read the Operation Manual**