# URW-546-2
## (4.0t x 2.5m)

- Total width 1.4m
- Max working radius 17m with searcher and single-line hooks
- Tier 4 diesel engine powered and optional mains electric
- Zero length increase with electric option
- Operator control of outrigger extension
- Intelligent voice warning system
- Radio remote control as standard
- Working area limitation (optional)
- Variable footprint (optional)
- Intelligent throttle activation for economy and ecology
















**The UNIC URW-546-2 seamlessly combines operational flexibility with robust lifting power, featuring a new hydraulic jib with four hook options — the new model surpasses the standard URW-546 model with an expanded working height of up to 22.8m and an increased working radius of 17m.** The URW-546-2 boasts a slim 1.4m width for adept manoeuvrability through internal industrial doorways and operation in confined spaces. Features include an optional upgrade to the variable footprint system, enhancing crane flexibility. The 546-2 seamlessly integrates into the UNIC crane range, maintaining unrivalled performance and reliability while introducing heightened flexibility and usability.

## ADDITIONAL FEATURES


Radio remote control


Safe load indicator


Optional Variable Footprint safe load indicator

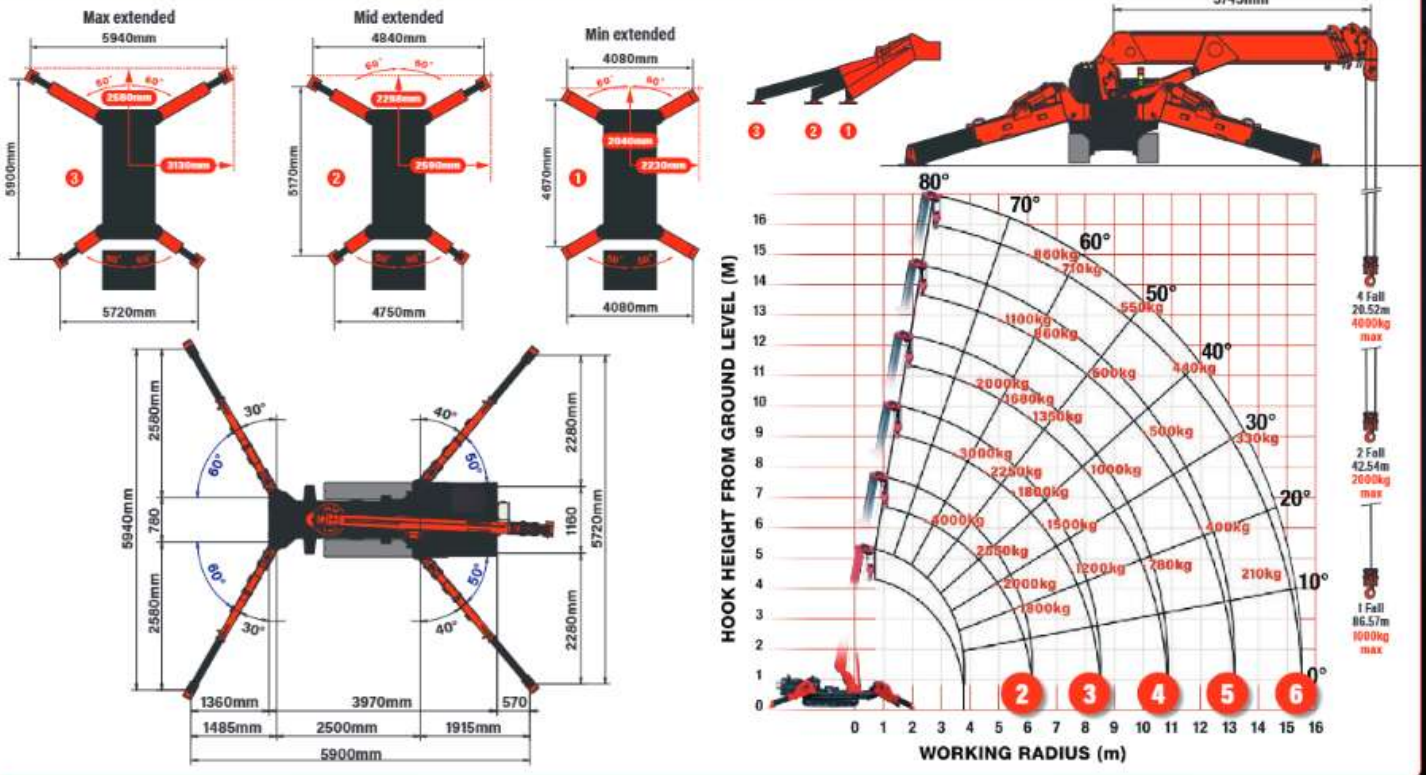
## CRANE SPECIFICATIONS

| | | |
|---|---|---|
| **Crane capacity** | capacity: | 4.0t x 2.5m |
| **Max working radius** | max: | 15.52m (17m with single line hook, 17m with fixed hook) |
| **Max lifting height** | approx: | 16m (21.8m with single line hook, 22.8m with fixed hook) |
| **Rope length** | max: | 20.52m (4 fall), 42.54m (2 fall), 86.57m (1 fall) |
| **Dimensions** | folded: | 5270mm (l) x 1300mm (w) x 2090mm (h) |
| **Weight** | unladen: | 5280kg (5430kg with electric option) |
| **Point loadings** | Due to the many variables involved, point loadings are only available on request | |
| **Hook speed** | approx: | 11m/min (with 4 layers and 4 falls) |
| **Telescopic system** | boom length:<br>telescoping speed:<br>boom type: | 3.93 - 15.71m<br>11.78m / 35 seconds<br>6 section hydraulically telescoping boom, hexagonal box construction |
| **Derricking angle/speed** | approx: | 0 - 80°/18.0 seconds |
| **Slewing angle/speed** | approx: | 360° (continuous) 2.5min rpm |
| **Traction system** | drive:<br>travel speed:<br>gradeability:<br>track ground length:<br>track ground pressure:<br>track width: | hydrostatic 2-speed, stepless forward and reverse<br>0 - 3km/h<br>± 20° (vertical), 20° (traverse)<br>1750mm<br>46.1 kPa (0.47kg/cm²)<br>300mm |
| **Engine** | manufacturer:<br>fuel:<br>maximum output:<br>starting method:<br>tank capacity: | Tier 4 Yanmar<br>diesel<br>17.8kW (23.9PS) / 3000min rpm<br>electric<br>40 litres |
| **Electric dual power option** | power:<br>voltage: | 7.5kW<br>400v AC 50/60Hz |
| **Standard equipment** | computer controlled moment limiter (safe load indicator), radio remote control, overwinding alarm, computer controlled intelligent voice warning system, multi-function operation by radio remote control, intelligent throttle activation, automatic hook stow, overload warning alarms, overload warning lamps, 850kg capacity single-line hook, 850kg capacity searcher hook, 850kg capacity stub, 1500kg capacity rhino hook | |
| **Optional equipment** | 2 fall hook block, mains electric dual power (400v), low marking tracks, slew limitation, radio remote control with feedback display, data logging, forward facing camera, variable footprint option, working area limitation | |

# MINI SPIDER CRANE
## WITH HYDRAULIC JIB

UNIC CRANES EUROPE

## MAIN BOOM RATED LOADS WITH OUTRIGGERS SET TO MAX & OUTRIGGER POSITIONS




### SECOND STAGE EXTENDED 3.93 - 6.33m BOOM LENGTH

| Working radius | | | m | up to 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outrigger | Max-extended | without/with jib | kg | 4000 | 3450 | 3000 | 2550 | 2250 | 2000 | 1800 | 1630 | 1600 |
| | Mid-extended | without/with jib | kg | 4000 | 3450 | 3000 | 2450 | 2100 | 1850 | 1700 | 1400 | 1350 |
| | Min-extended | without/with jib | kg | 4000 | 3450 | 3000 | 2400 | 2000 | 1650 | 1350 | 1100 | 1000 |

### THIRD STAGE EXTENDED 6.33 - 8.72m BOOM LENGTH

| Working radius | | | m | up to 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.53 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outrigger | Max-extended | without/with jib | kg | 3000 | 2550 | 2250 | 2000 | 1800 | 1650 | 1500 | 1350 | 1200 | 1100 | 1000 |
| | Mid-extended | without/with jib | kg | 3000 | 2400 | 2100 | 1850 | 1700 | 1400 | 1200 | 1050 | 850 | 750 | 620 |
| | Min-extended | without/with jib | kg | 3000 | 2400 | 2000 | 1650 | 1350 | 1100 | 900 | 750 | 600 | 500 | 450 |

### FOURTH STAGE EXTENDED 8.72 - 11.05m BOOM LENGTH

| Working radius | | | m | up to 4.0 | 4.3 | 4.5 | 5.0 | 5.5 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outrigger | Max-extended | without/with jib | kg | 2000 | 2000 | 1880 | 1680 | 1500 | 1350 | 1150 | 1000 | 900 | 780 | 650 |
| | Mid-extended | without/with jib | kg | 2000 | 2000 | 1800 | 1600 | 1450 | 1300 | 1050 | 700 | 600 | 450 | 390 |
| | Min-extended | without/with jib | kg | 2000 | 2000 | 1800 | 1600 | 1350 | 1100 | 750 | 500 | 400 | 300 | 250 |

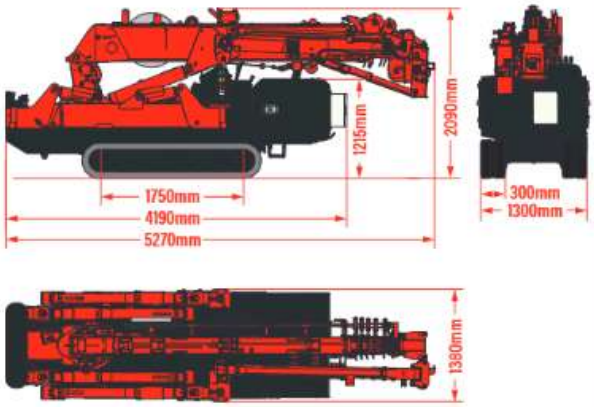
### FIFTH STAGE EXTENDED 11.05 - 13.38m BOOM LENGTH

| Working radius | | | m | up to 5.0 | 5.5 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outrigger | Max-extended | without/with jib | kg | 1100 | 950 | 860 | 710 | 600 | 550 | 500 | 450 | 400 | 350 |
| | Mid-extended | without/with jib | kg | 1100 | 950 | 860 | 700 | 600 | 520 | 450 | 390 | 300 | 250 |
| | Min-extended | without jib | kg | 1100 | 950 | 860 | 700 | 500 | 400 | 300 | 250 | 200 | 170 |
| | Min-extended | with jib | kg | 1100 | 950 | 860 | 700 | 500 | 400 | 300 | 250 | 200 | 140 |

### SIXTH STAGE EXTENDED 13.38 - 15.71m BOOM LENGTH

| Working radius | | | m | up to 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 15.52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outrigger | Max-extended | without/with jib | kg | 860 | 710 | 600 | 550 | 500 | 440 | 390 | 330 | 270 | 210 | 160 |
| | Mid-extended | without/with jib | kg | 860 | 500 | 350 | 300 | 270 | 250 | 220 | 200 | 170 | 160 | 150 |
| | Min-extended | without jib | kg | 860 | 500 | 350 | 300 | 250 | 230 | 200 | 170 | 150 | 120 | 100 |
| | Min-extended | with jib | kg | 860 | 500 | 350 | 300 | 250 | 230 | 200 | 140 | 110 | 90 | 60 |

## DIMENSIONS




## ATTACHMENT WORKING RANGES

**Single-Line Hook**
Maximum Load - 850kg



**Searcher Hook**
Maximum Load - 850kg



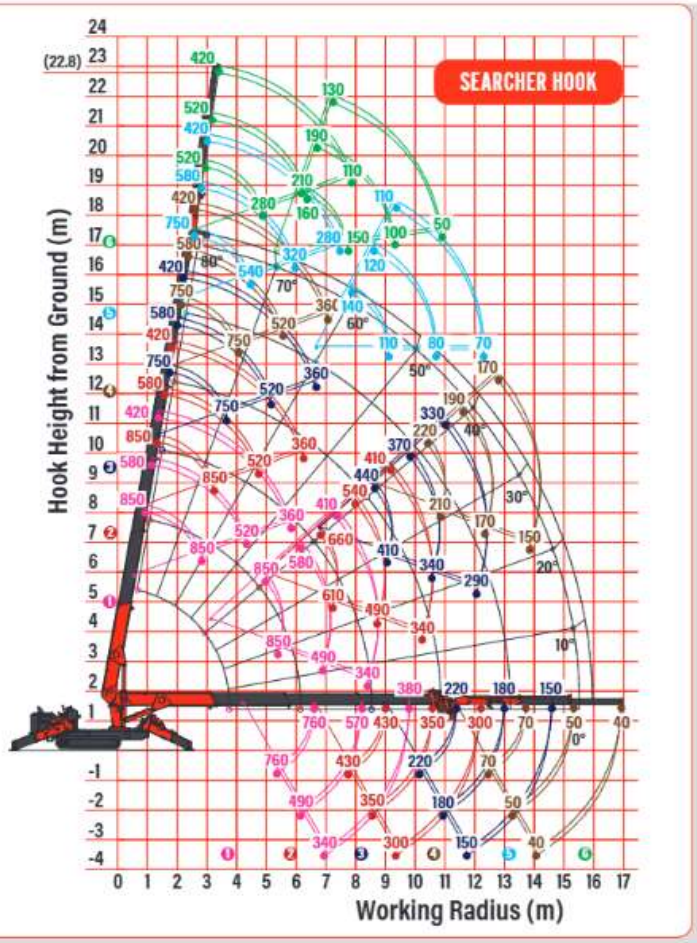
**Stub**
Maximum Load - 850kg

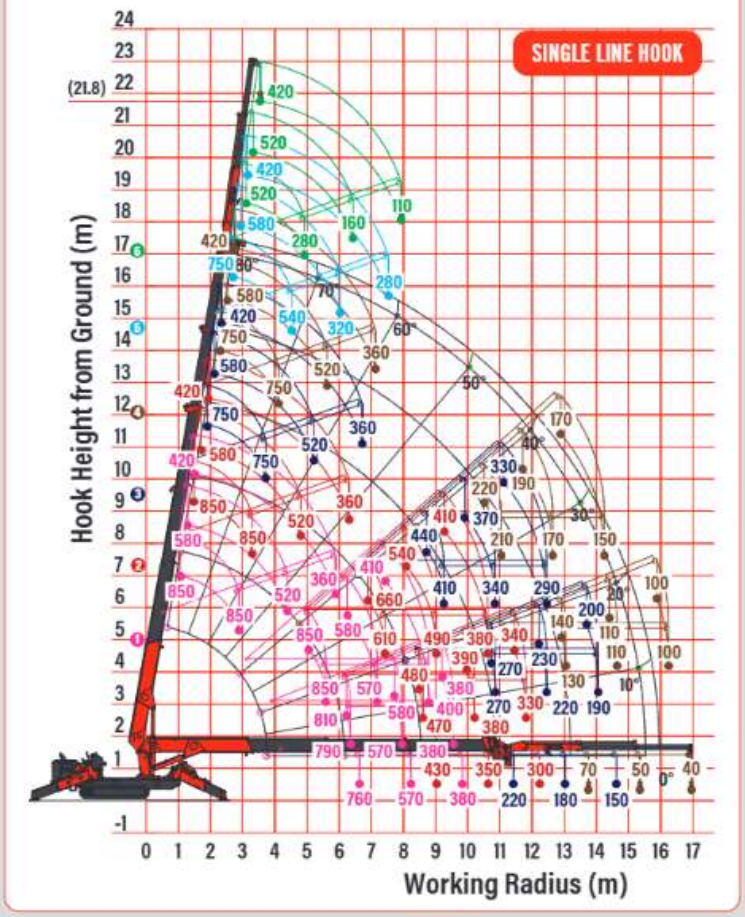



**Rhino Hook**
Maximum Load - 1500kg



# URW-546-2
## (4.0t x 2.5m)




## HYDRAULIC JIB NET RATED LOADS (kg) - ANGLE RATED - OUTRIGGERS SET TO MAXIMUM AND HALFWAY

PROHIBITED AREA OF SINGLE LINE HOOK

### JIB 1 / STUB 1

| BOOM 1 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 850 | 850 | 850 | 850 |
| 70° | 850 | 850 | 850 | 850 |
| 60° | 850 | 850 | 850 | 850 |
| 50° | 850 | 850 | 850 | 850 |
| 40° | 850 | 850 | 850 | 850 |
| 30° | 850 | 840 | 840 | 840 |
| 20° | 810 | 790 | 790 | 790 |
| 10° | 760 | 760 | 760 | 760 |
| 0° | 760 | 760 | 760 | 760 |

| BOOM 2 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 850 | 850 | 850 | 850 |
| 70° | 850 | 850 | 850 | 800 |
| 60° | 750 | 750 | 750 | 750 |
| 50° | 750 | 750 | 730 | 730 |
| 40° | 660 | 620 | 610 | 610 |
| 30° | 540 | 530 | 530 | 530 |
| 20° | 480 | 470 | 470 | 470 |
| 10° | 440 | 440 | 440 | 440 |
| 0° | 430 | 430 | 430 | 430 |

| BOOM 3 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 750 | 750 | 750 | 750 |
| 70° | 750 | 750 | 750 | 750 |
| 60° | 750 | 720 | 670 | 660 |
| 50° | 580 | 530 | 520 | 520 |
| 40° | 440 | 410 | 410 | 410 |
| 30° | 340 | 330 | 330 | 330 |
| 20° | 270 | 270 | 270 | 270 |
| 10° | 240 | 240 | 240 | 240 |
| 0° | 220 | 220 | 220 | 220 |

| BOOM 4 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 750 | 750 | 750 | 750 |
| 70° | 750 | 720 | 650 | 540 |
| 60° | 500 | 450 | 420 | 420 |
| 50° | 310 | 290 | 280 | 280 |
| 40° | 220 | 210 | 210 | 210 |
| 30° | 160 | 160 | 160 | 160 |
| 20° | 140 | 130 | 130 | 130 |
| 10° | 110 | 110 | 110 | 110 |
| 0° | 70 | 70 | 70 | 70 |

| BOOM 5 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 750 | 720 | 600 | 540 |
| 70° | 330 | 280 | 250 | 240 |
| 60° | 140 | 120 | 120 | 110 |
| 50° | NOT ALLOWED | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

| BOOM 6 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 520 | 410 | 310 | 280 |
| 70° | 210 | 180 | 160 | 150 |
| 60° | 70 | 60 | 60 | 60 |
| 50° | NOT ALLOWED | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

### JIB 2-1 / STUB 2

| BOOM 1 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 580 | 580 | 580 | 520 |
| 70° | 580 | 580 | 580 | 500 |
| 60° | 580 | 580 | 580 | 490 |
| 50° | 580 | 580 | 570 | 490 |
| 40° | 580 | 580 | 570 | 490 |
| 30° | 580 | 570 | 570 | 490 |
| 20° | 580 | 570 | 570 | 490 |
| 10° | 570 | 570 | 570 | 490 |
| 0° | 570 | 570 | 570 | 490 |

| BOOM 2 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 580 | 580 | 580 | 520 |
| 70° | 580 | 580 | 580 | 500 |
| 60° | 580 | 580 | 580 | 490 |
| 50° | 580 | 580 | 570 | 490 |
| 40° | 540 | 500 | 490 | 490 |
| 30° | 450 | 430 | 430 | 430 |
| 20° | 390 | 380 | 380 | 380 |
| 10° | 360 | 360 | 360 | 360 |
| 0° | 350 | 350 | 350 | 350 |

| BOOM 3 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 580 | 580 | 580 | 520 |
| 70° | 580 | 580 | 580 | 500 |
| 60° | 580 | 580 | 540 | 490 |
| 50° | 500 | 440 | 420 | 420 |
| 40° | 370 | 340 | 340 | 340 |
| 30° | 290 | 270 | 270 | 270 |
| 20° | 230 | 220 | 220 | 220 |
| 10° | 200 | 200 | 200 | 200 |
| 0° | 180 | 180 | 180 | 180 |

| BOOM 4 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 580 | 580 | 580 | 520 |
| 70° | 580 | 580 | 440 | 360 |
| 60° | 430 | 370 | 340 | 330 |
| 50° | 270 | 240 | 230 | 230 |
| 40° | 190 | 170 | 170 | 170 |
| 30° | 140 | 130 | 130 | 130 |
| 20° | 110 | 110 | 110 | 110 |
| 10° | 90 | 90 | 90 | 90 |
| 0° | 50 | 50 | 50 | 50 |

| BOOM 5 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 580 | 570 | 440 | 320 |
| 70° | 290 | 230 | 190 | 170 |
| 60° | 120 | 100 | 90 | 80 |
| 50° | NOT ALLOWED | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

| BOOM 6 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 520 | 270 | 190 | 160 |
| 70° | 190 | 130 | 100 | 100 |
| 60° | NOT ALLOWED | | | |
| 50° | | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

### JIB 2-2 / JIB 3

| BOOM 1 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 410 | 410 | 360 |
| 70° | 420 | 410 | 410 | 340 |
| 60° | 420 | 410 | 410 | 340 |
| 50° | 410 | 400 | 380 | 340 |
| 40° | 410 | 400 | 380 | 340 |
| 30° | 400 | 380 | 380 | 340 |
| 20° | 400 | 380 | 380 | 340 |
| 10° | 380 | 380 | 380 | 340 |
| 0° | 380 | 380 | 380 | 340 |

| BOOM 2 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 410 | 410 | 360 |
| 70° | 420 | 410 | 410 | 340 |
| 60° | 420 | 410 | 410 | 340 |
| 50° | 410 | 400 | 380 | 340 |
| 40° | 410 | 400 | 380 | 340 |
| 30° | 390 | 360 | 360 | 340 |
| 20° | 340 | 330 | 330 | 330 |
| 10° | 310 | 310 | 310 | 310 |
| 0° | 300 | 300 | 300 | 300 |

| BOOM 3 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 410 | 410 | 360 |
| 70° | 420 | 410 | 410 | 340 |
| 60° | 420 | 410 | 410 | 340 |
| 50° | 410 | 380 | 350 | 340 |
| 40° | 330 | 300 | 290 | 290 |
| 30° | 250 | 240 | 240 | 240 |
| 20° | 200 | 190 | 190 | 190 |
| 10° | 170 | 170 | 170 | 170 |
| 0° | 150 | 150 | 150 | 150 |

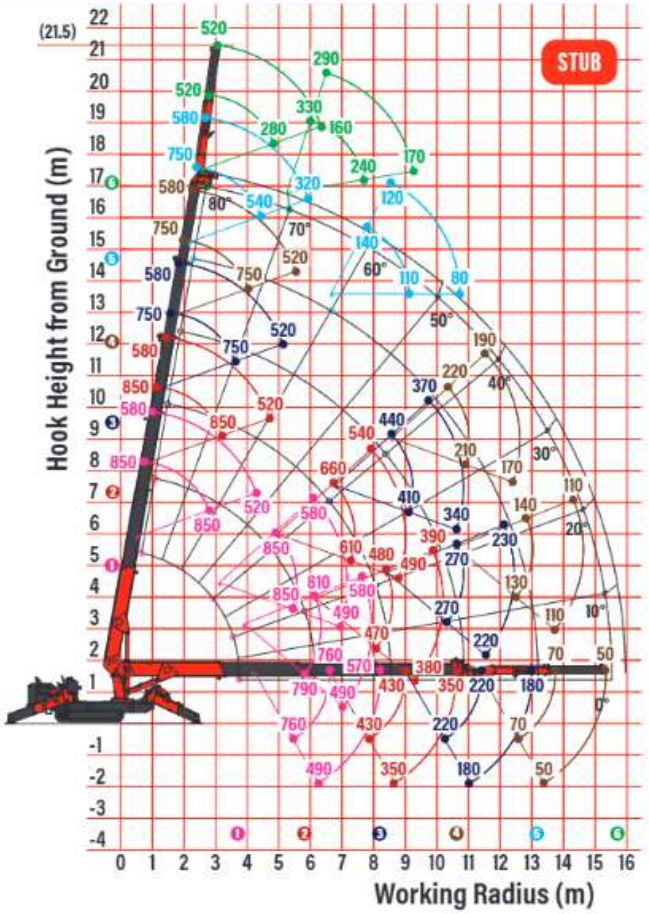
| BOOM 4 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 410 | 410 | 360 |
| 70° | 420 | 410 | 410 | 340 |
| 60° | 390 | 320 | 290 | 280 |
| 50° | 240 | 210 | 200 | 200 |
| 40° | 170 | 150 | 150 | 150 |
| 30° | 120 | 110 | 110 | 110 |
| 20° | 100 | 100 | 90 | 90 |
| 10° | 70 | 70 | 70 | 70 |
| 0° | 40 | 40 | 40 | 40 |

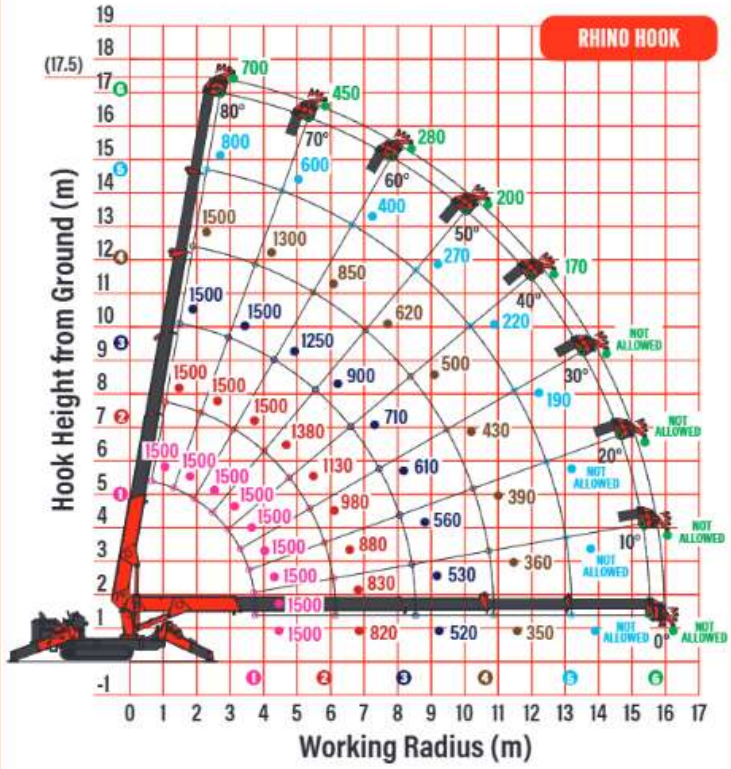
| BOOM 5 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 410 | 350 | 280 |
| 70° | 260 | 190 | 160 | 150 |
| 60° | 110 | 80 | 70 | 70 |
| 50° | NOT ALLOWED | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

| BOOM 6 | TILT ANGLES 0° | 20° | 40° | 60° |
|---|---|---|---|---|
| 80° | 420 | 200 | 130 | 110 |
| 70° | 130 | 70 | 50 | 50 |
| 60° | NOT ALLOWED | | | |
| 50° | | | | |
| 40° | | | | |
| 30° | | | | |
| 20° | | | | |
| 10° | | | | |
| 0° | | | | |

# MINI SPIDER CRANE
## WITH HYDRAULIC JIB

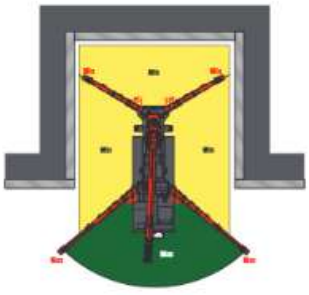
UNIC CRANES EUROPE



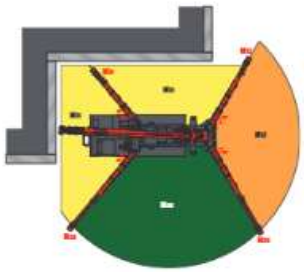




## OPTIONAL VARIABLE FOOTPRINT INCLUDING SLEW & HEIGHT LIMITATION

With the variable footprint option, the URW-546-2 is transformed and enables this mini crane to operate around fixed obstacles on site to suit the lifting requirements of each project.



Height Limitation



Variable Height Limitation







Slew Limitation




Variable Slew Limitation




## RHINO HOOK NET RATED LOADS (kg) - OUTRIGGERS SET TO MAX, MID AND MIN

| Max Outriggers | Boom Length | | | | | |
|---|---|---|---|---|---|---|
| Boom Angle (°) | Boom 1 | Boom 2 | Boom 3 | Boom 4 | Boom 5 | Boom 6 |
| 80° | 1500 | 1500 | 1500 | 1500 | 800 | 700 |
| 70° | 1500 | 1500 | 1500 | 1300 | 600 | 450 |
| 60° | 1500 | 1500 | 1250 | 850 | 400 | 280 |
| 50° | 1500 | 1380 | 900 | 620 | 270 | 200 |
| 40° | 1500 | 1130 | 710 | 500 | 220 | 170 |
| 30° | 1500 | 980 | 610 | 430 | 190 | |
| 20° | 1500 | 880 | 560 | 390 | | |
| 10° | 1500 | 830 | 530 | 360 | NOT ALLOWED | |
| 0° | 1500 | 820 | 520 | 350 | | |

| Mid Outriggers | Boom Length | | | | | |
|---|---|---|---|---|---|---|
| Boom Angle (°) | Boom 1 | Boom 2 | Boom 3 | Boom 4 | Boom 5 | Boom 6 |
| 78° | 1500 | 1500 | 1500 | 1450 | 750 | 500 |
| 70° | 1500 | 1500 | 1450 | 1100 | 550 | 240 |
| 60° | 1500 | 1450 | 1100 | 780 | 380 | 130 |
| 50° | 1500 | 1200 | 790 | 500 | 260 | 90 |
| 40° | 1500 | 1020 | 600 | 310 | 200 | 60 |
| 30° | 1430 | 870 | 470 | 250 | 160 | |
| 20° | 1380 | 760 | 370 | 210 | | |
| 10° | 1360 | 730 | 330 | 190 | NOT ALLOWED | |
| 0° | 1360 | 720 | 320 | 190 | | |

| Min Outriggers | Boom Length | | | | | |
|---|---|---|---|---|---|---|
| Boom Angle (°) | Boom 1 | Boom 2 | Boom 3 | Boom 4 | Boom 5 | Boom 6 |
| 78° | 1500 | 1500 | 1500 | 1450 | 750 | 500 |
| 70° | 1500 | 1500 | 1450 | 1000 | 530 | 240 |
| 60° | 1500 | 1450 | 920 | 600 | 330 | 130 |
| 50° | 1500 | 1200 | 610 | 360 | 170 | 80 |
| 40° | 1500 | 970 | 430 | 210 | 100 | 50 |
| 30° | 1430 | 770 | 330 | 150 | 70 | |
| 20° | 1380 | 620 | 270 | 110 | | |
| 10° | 1360 | 550 | 230 | 100 | NOT ALLOWED | |
| 0° | 1360 | 540 | 230 | 100 | | |

Rhino Hook Tilt Angle (0-60° Same Performance)