

# URW-546 & 546-VF

## (4.0t x 2.5m)

- Total width 1.4m
- Max working radius 15.52m
- 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
- Slew limitation (optional)
- Intelligent throttle activation for economy and ecology



The URW-546 offers an optimal combination of working flexibility and heavy lifting power. This crane is capable of lifting 4 tonnes at 2.5m and features a maximum lifting height of 16m. The UNIC URW-546 sees the addition of a new clean emissions, tier 4 diesel engine, making it fully compliant with the latest emissions regulations. The URW-546 mini crane can be controlled from the drivers seat or via a radio remote control for precise lifting and placement of loads. At just 1.4m wide, the UNIC URW-546 is ideal for passing through internal doorways and working in confined areas where working space may be limited.

### REMOTES



Standard radio remote control



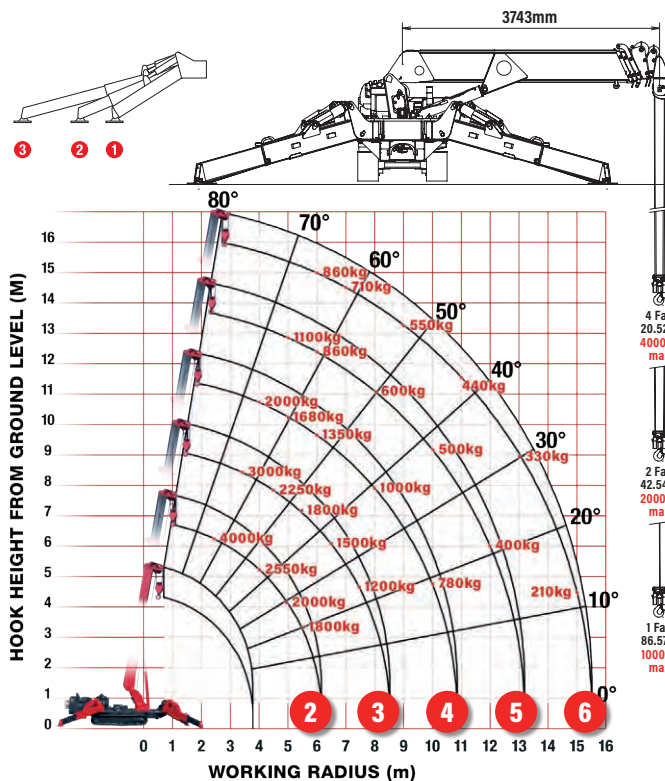
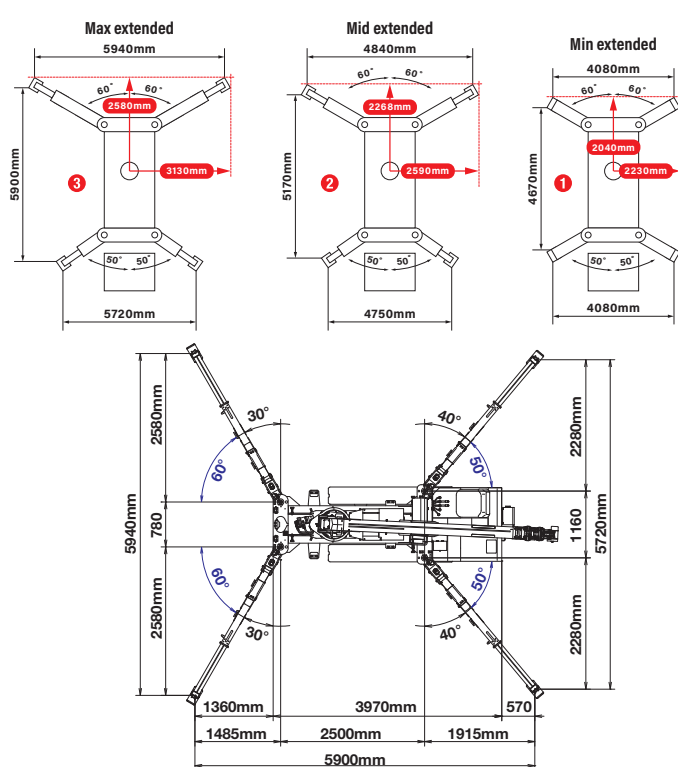
Optional radio remote control with digital feedback

### CRANE SPECIFICATIONS

|                            |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Crane capacity             | capacity:                                                                                                                                                                                                                                                                                                                                 | 4.0t x 2.5m                                                                                                                                    |
| Max working radius         | max:                                                                                                                                                                                                                                                                                                                                      | 15.52m                                                                                                                                         |
| Max lifting height         | approx:                                                                                                                                                                                                                                                                                                                                   | 16m (17.79m with fly jib, 18.46m with fixed hook)                                                                                              |
| Rope length                | max:                                                                                                                                                                                                                                                                                                                                      | 20.52m (4 fall), 42.54m (2 fall), 86.57m (1 fall)                                                                                              |
| Dimensions                 | folded:                                                                                                                                                                                                                                                                                                                                   | 4870mm (l) x 1400mm (w) x 2035mm (h)                                                                                                           |
| Weight                     | unladen:                                                                                                                                                                                                                                                                                                                                  | 4940kg (5090kg 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>178kW (23.9PS) / 3000min rpm<br>electric<br>40 litres                                                               |
| Electric dual power option | power:<br>voltage:                                                                                                                                                                                                                                                                                                                        | 75kW<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, working area limitation |                                                                                                                                                |
| Optional equipment         | 1 fall hook block, 2 fall hook block, mains electric dual power (400v), low marking tracks, slew limitation, searcher hook small 500kg, searcher hook 700kg, fly jib 700kg with single part line, radio remote control with feedback display, data logging, forward facing camera, variable footprint option, 850kg hydraulic fly jib     |                                                                                                                                                |

# MINI SPIDER CRANE

## RATED LOADS & 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   | kg | 4000      | 3450 | 3000 | 2550 | 2250 | 2000 | 1800 | 1630 | 1600 |
| Mid-extended   | kg | 4000      | 3450 | 3000 | 2450 | 2100 | 1850 | 1700 | 1400 | 1350 |
| Min-extended   | 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   | kg | 3000      | 2550 | 2250 | 2000 | 1800 | 1650 | 1500 | 1350 | 1200 | 1100 | 1000 |
| Mid-extended   | kg | 3000      | 2400 | 2100 | 1850 | 1700 | 1400 | 1200 | 1050 | 850  | 750  | 620  |
| Min-extended   | 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   | kg | 2000      | 2000 | 1880 | 1680 | 1500 | 1350 | 1150 | 1000 | 900 | 780  | 650  |
| Mid-extended   | kg | 2000      | 2000 | 1800 | 1600 | 1450 | 1300 | 1050 | 700  | 600 | 450  | 390  |
| Min-extended   | 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   | kg | 1100      | 950 | 860 | 710 | 600 | 550 | 500  | 450  | 400  | 350   |
| Mid-extended   | kg | 1100      | 950 | 860 | 700 | 600 | 520 | 450  | 390  | 300  | 250   |
| Min-extended   | kg | 1100      | 950 | 860 | 700 | 500 | 400 | 300  | 250  | 200  | 170   |

### 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   | kg | 860       | 710 | 600 | 550 | 500  | 440  | 390  | 330  | 270  | 210  | 160   |
| Mid-extended   | kg | 860       | 500 | 350 | 300 | 270  | 250  | 220  | 200  | 170  | 160  | 150   |
| Min-extended   | kg | 860       | 500 | 350 | 300 | 250  | 230  | 200  | 170  | 150  | 120  | 100   |

### SEARCHER HOOK SMALL - 500kg

Stowed position



In operation



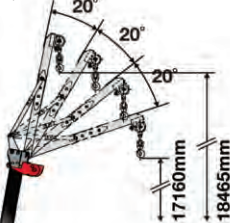
|                  |                                       |
|------------------|---------------------------------------|
| Lifting capacity | 500kg sections 1-5<br>480kg section 6 |
| Length           | 800mm                                 |
| Weight           | 20kg                                  |
| Tilt angles      | 0°, 20°, 40°, 60°                     |

## SEARCHER HOOK

## FLY JIB

## DIMENSIONS

Maximum Load 350kg - 700kg  
(radius rated)



Maximum Load 350kg - 700kg  
(angle rated)

