

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

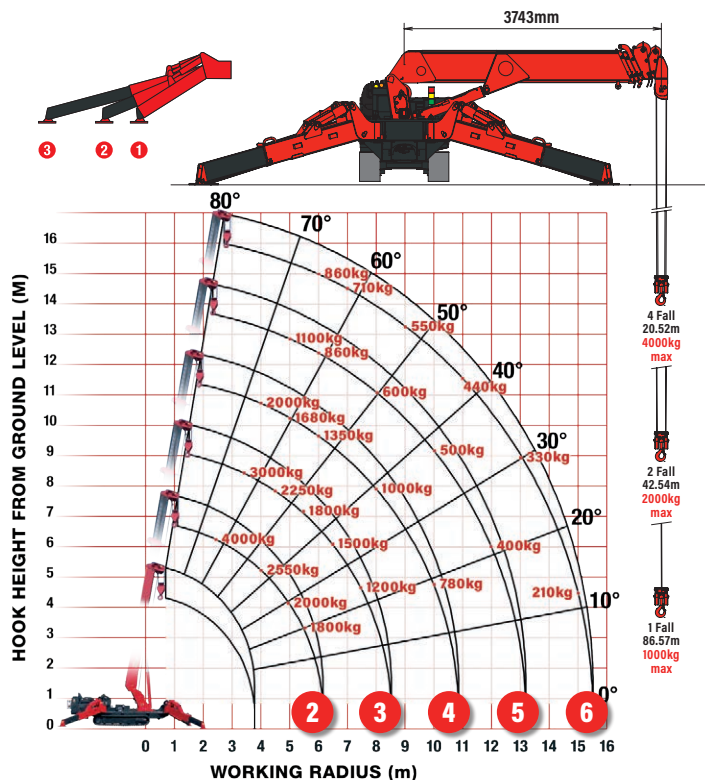
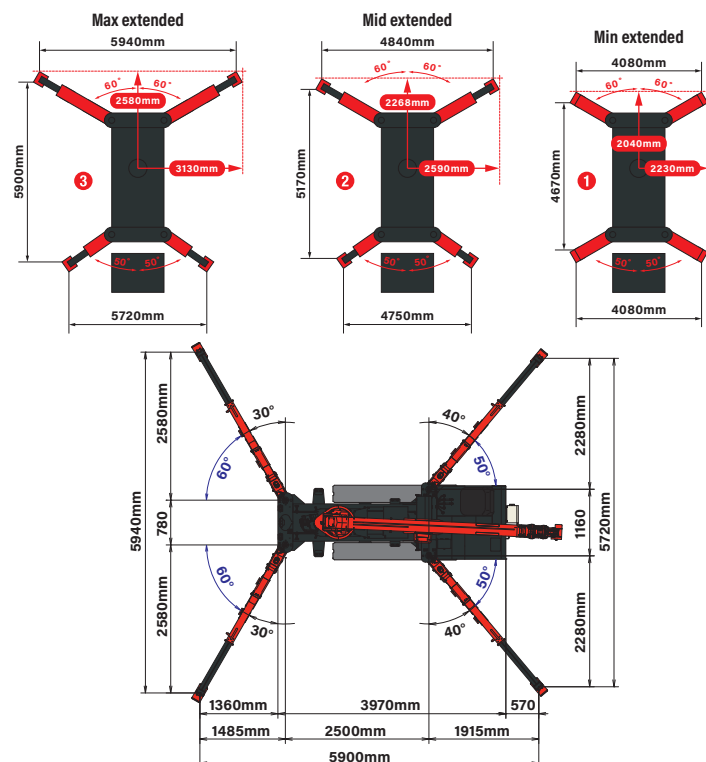
Crane capacity	capacity:	4.0t x 2.5m
Max working radius	max:	15.52m (17m with single line hook, 17m with fixed hook)
Max lifting height	approx:	16m (21.8m with single line hook, 22.8m with fixed hook)
Rope length	max:	20.52m (4 fall), 42.54m (2 fall), 86.57m (1 fall)
Dimensions	folded:	5270mm (l) x 1300mm (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:	3.93 - 15.71m
	telescoping speed:	11.78m / 35 seconds
	boom type:	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:	hydrostatic 2-speed, stepless forward and reverse
	travel speed:	0 - 3km/h
	gradeability:	± 20° (vertical), 20° (traverse)
	track ground length:	1750mm
	track ground pressure:	46.1 kPa (0.47kg/cm²)
	track width:	300mm
Engine	manufacturer:	Tier 4 Yanmar
	fuel:	diesel
	maximum output:	178kW (23.9PS) / 3000min rpm
	starting method:	electric
	tank capacity:	40 litres
Electric dual power option	power:	75kW
	voltage:	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	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	4.5	5.0	5.5	6.0	7.0	8.0	9.0	10.0	10.9
Outrigger											
Max-extended	kg	2000	1880	1680	1500	1350	1150	1000	900	780	650
Mid-extended	kg	2000	1800	1600	1450	1300	1050	700	600	450	390
Min-extended	kg	2000	1800	1600	1350	1100	750	500	400	300	250

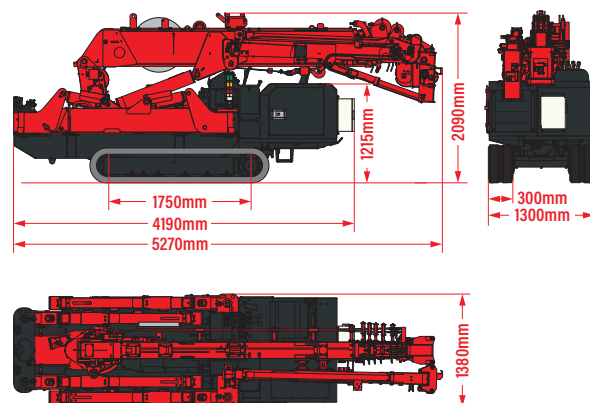
FIFTH STAGE EXTENDED 11.05 - 13.38m BOOM LENGTH

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	860	710	600	550	500	450	400	350	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
Min-extended with jib	kg	1100	950	860	700	500	400	300	250	200	140

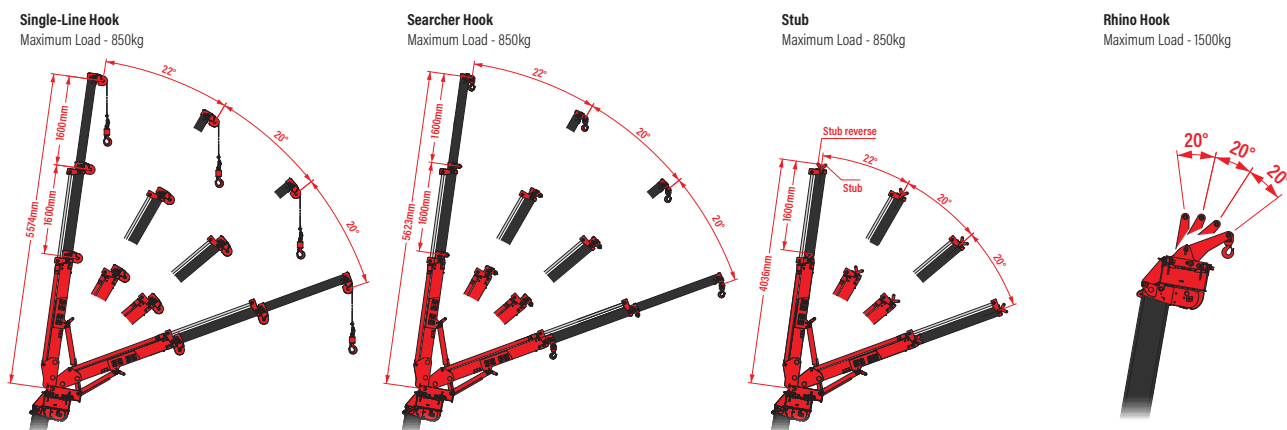
SIXTH STAGE EXTENDED 13.38 - 15.71m BOOM LENGTH

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	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
Min-extended with jib	kg	860	500	350	300	250	230	200	140	110	90	60

DIMENSIONS

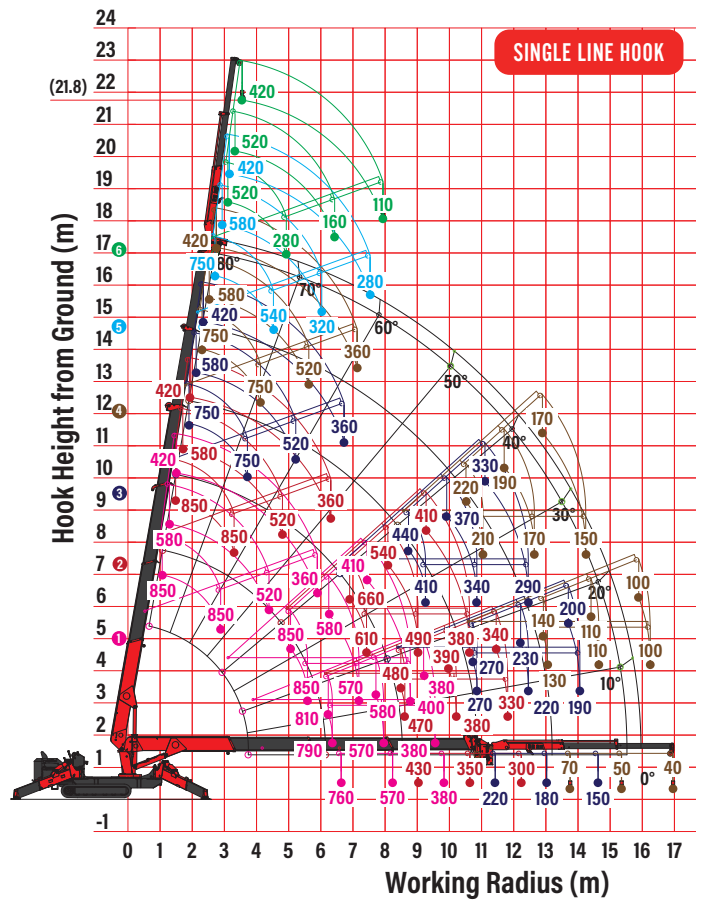
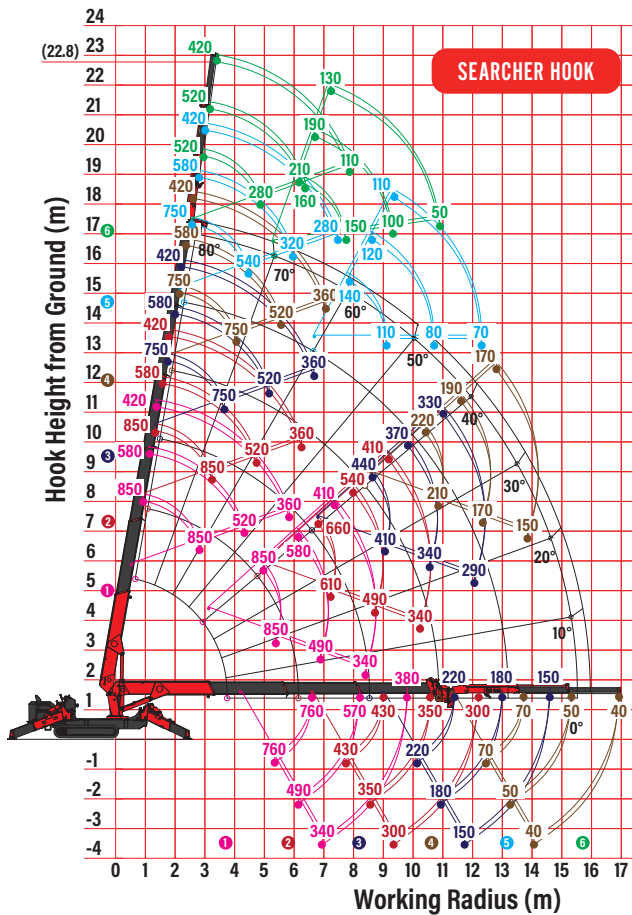


ATTACHMENT WORKING RANGES



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	

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	

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	

JIB 1 / STUB 1	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	

JIB 2-1 / STUB 2	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	

JIB 2-2 / JIB 3	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	

JIB 1 / STUB 1	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	

JIB 2-1 / STUB 2	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	

JIB 2-2 / JIB 3	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	

JIB 1 / STUB 1	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	

JIB 2-1 / STUB 2	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	

JIB 2-2 / JIB 3	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	

JIB 1 / STUB 1	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°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

JIB 2-1 / STUB 2	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°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

JIB 2-2 / JIB 3	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°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

JIB 1 / STUB 1	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°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

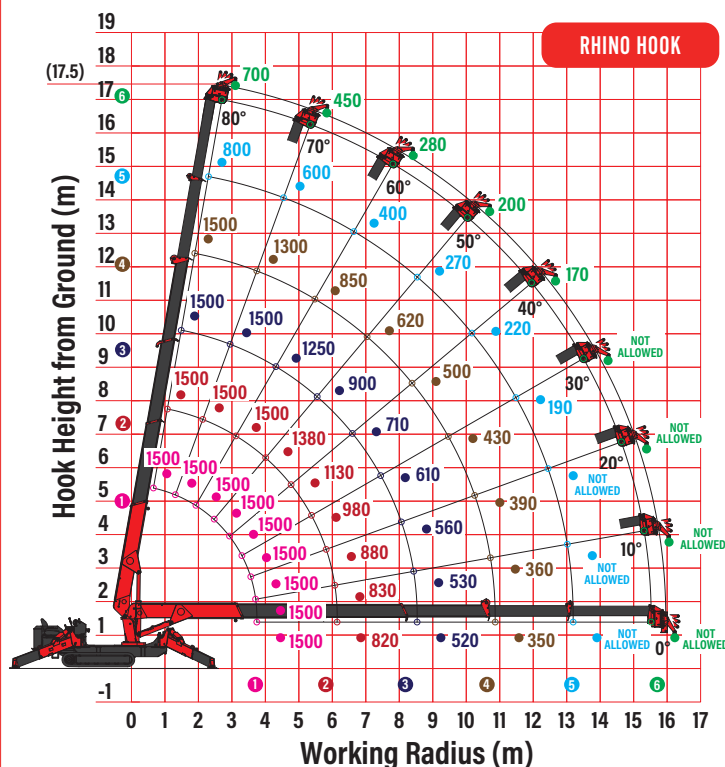
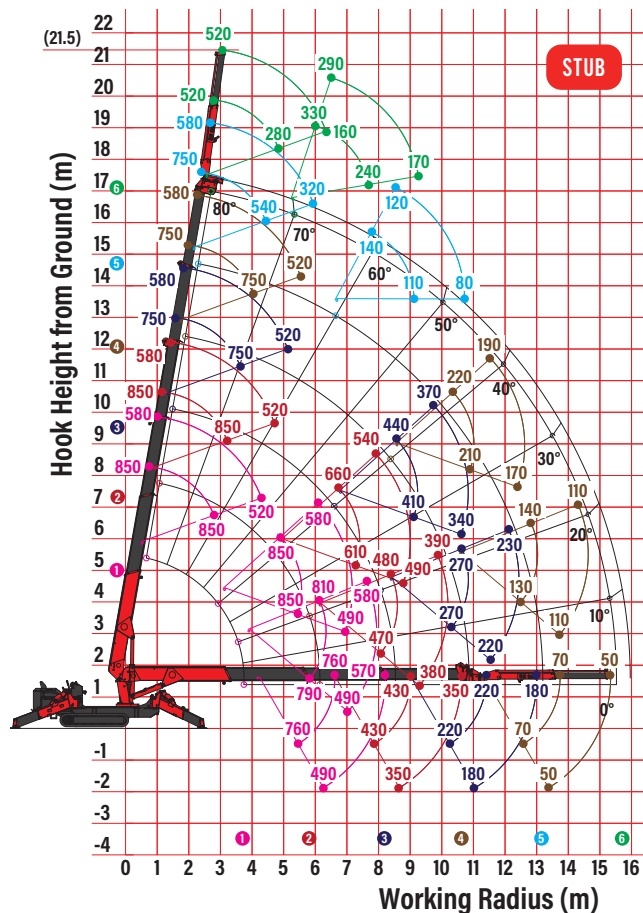
JIB 2-1 / STUB 2	BOOM 6	TILT ANGLES			
	0°	20°	40°	60°	
	80°	520	270	190	160
	70°	190	130	100	100
	60°	NOT ALLOWED			
	50°	NOT ALLOWED			
	40°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

JIB 2-2 / JIB 3	BOOM 6	TILT ANGLES			
	0°	20°	40°	60°	
	80°	420	200	130	110
	70°	130	70	50	50
	60°	NOT ALLOWED			
	50°	NOT ALLOWED			
	40°	NOT ALLOWED			
	30°	NOT ALLOWED			
	20°	NOT ALLOWED			
	10°	NOT ALLOWED			
0°	NOT ALLOWED				

MINI SPIDER CRANE

WITH HYDRAULIC JIB

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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		
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		
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		
0°	1360	540	230	100		

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

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.

