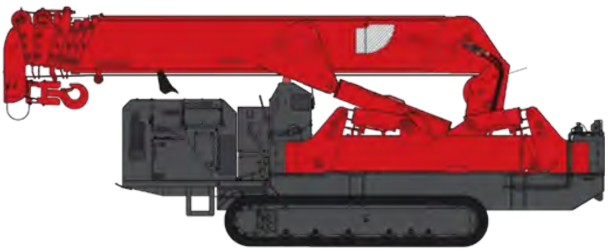
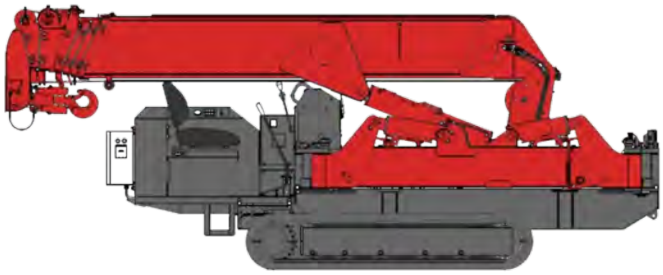
HOW-TO:

Install and Use the Aerial Work Platform

URW300-500-700 Series SYPDERCRANE





General Information About the Aerial Work Platform

Start Conditions:

Vehicle:	Personnel and Time:	Tools Required:
• URW300-500-700 Series • Outriggers Deployed • ON • Hook Block uninstalled • Wire Rope stored	• 1 Person • Standard PPE • <10 minutes	• None

The Aerial Work Platform (AWP) is an easy to use system for converting the URW300-500-700 Series SPYDERCRANE into a personnel rated work platform. However, there are some items that must be considered prior to using the AWP:

⇒ Consult the load chart prior to lifting personnel. All operations must be made in areas where the rated capacity EXCEEDS 1,150 pounds.

⇒ Personnel must wear a safety harness with a lanyard attached to the basket's dedicated anchor point.

⇒ The gross capacity of the AWP is 300 pounds. This includes all tools and materials being lifted with the operator.

⇒ The AWP weighs 450 pounds unloaded.

⇒ All other best practices and regulations for crane operations MUST be followed including but not limited to: blocking and cribbing, electrical hazard awareness and daily or shift inspections.

Prior to installing the AWP:

⇒ Ensure the Hook Block is uninstalled and the Wire Rope is stored at the Wire Rope Drum.

⇒ Ensure the AWP's anchor point for a safety harness is facing AWAY from the SPYDERCRANE.

Install the Aerial Work Platform

Start Conditions:

Vehicle:	Personnel and Time:	Tools Required:
• URW300-500-700 Series • Outriggers Deployed • ON • Hook Block uninstalled • Wire Rope stored	• 1 Person • Standard PPE • <10 minutes	• None

Ensure all warning labels and the General Information page is read and understood prior to installing the Aerial Work Platform (AWP).

1. Ensure the Wire Rope is stored at the Wire Rope Drum.
   * URW706 Only: Remove the Jib and install the Boom Tip Adapter for the AWP while the boom is at 0° using the Jib pins.
2. Place the AWP roughly 5 feet in front of the SPYDERCRANE.
3. Orient it so that the side with the Yoke Brake Control is closest to the SPYDERCRANE and the Anchor Point is facing away from the SPYDERCRANE.
4. Unlock the Yoke by turning the Brake Control counter clockwise (CCW).
6. Rotate the Yoke upwards so that it is angled roughly 20° and lock the Yoke by turning the Brake Control clockwise (CW).
7. Place the Yoke inside the AWP Mount on the boom tip.
8. Line up the holes with the AWP Mount's holes.
9. Insert the mounting pins and secure them with the provided linchpins.
10. Unlock the Yoke Brake to allow the basket to swing freely.

Use the Aerial Work Platform

Start Conditions:

Vehicle:	Personnel and Time:	Tools Required:
• URW300-500-700 Series • Outriggers Deployed • ON • AWP Installed	• 1 Person • Standard PPE • Safety Harness	• None

Ensure all warning labels and the General Information page is read and understood prior to installing the Aerial Work Platform (AWP).

While maneuvering the AWP ensure the Yoke Brake is released to allow the basket to swing freely. Once in position, it can be applied to prevent swinging.

Ensure the gross weight (operator + equipment) does not exceed 300 pounds.

The AWP must only be operated in areas of the load chart that exceed 1,150 pounds.

⇒ If the variant used is a “T” model (no LMI), DO NOT rely on the SPYDERCRANE’s Turnover Prevention Device to warn when this limit is exceeded. It is not designed for this capability. It is up to you, the operator, to ensure the minimum threshold of 1,150 pounds rated load in the load chart is adhered to.

⇒ If the variant used has an LMI, ensure the LMI is programmed for AWP use. If there is no option for AWP use, it is up to you, the operator, to ensure the minimum threshold of 1,150 pounds rated load in the load chart is adhered to. The LMI will not offer assistance if it cannot be programmed for AWP use.

When operating in the 5th or 6th Boom Stage (44.5+ feet on the URW547), note the position of the DANGER AREA on the disc brake to ensure the angle of the AWP does not exceed it’s safe design. The indicator should stay INSIDE the box with writing.

When operating near the AWP’s 300 pound capacity limit, ensure smooth controlled movements are used. Rapid movements will cause the LMI to sense an overload and stop operations prematurely.

Load Charts

URW 375 AERIAL WORK PLATFORM Load Chart

Boom Stage 1+2

Working Radius	8	10	11	13	15	17	18.4
MAX-EXT	SAFE USE						
HALF-EXT							
NOT-EXT							

Boom Stage 3

Working Radius	8.5	10	11	13	15	16	18	20	23	25.6
MAX-EXT	SAFE USE									
HALF-EXT									PROHIBITED AREA	
NOT-EXT										

Boom Stage 4

Working Radius	13	15	16	20	23	26	30	32.7
MAX-EXT	SAFE USE							
HALF-EXT								
NOT-EXT								

Boom Stage 5

Working Radius	15	16	20	23	26	30	33	36	39.8
MAX-EXT	SAFE USE		PROHIBITED AREA OF OPERATIONS						
HALF-EXT									
NOT-EXT									

URW 376 AERIAL WORK PLATFORM Load Chart

Boom Stage 1+2

Working Radius	6.5	8	10	11	13	15	17	18.6
MAX-EXT	SAFE USE							
HALF-EXT								
NOT-EXT								PROHIBITED

Boom Stage 3

Working Radius	8.5	10	11	13	15	16	18	20	23	25.8
MAX-EXT	SAFE USE									
HALF-EXT									PROHIBITED AREA OF OPERATIONS	
NOT-EXT										

Boom Stage 4

Working Radius	13	15	16	20	23	26	30	33
MAX-EXT	SAFE USE							
HALF-EXT						PROHIBITED AREA OF OPERATIONS		
NOT-EXT								

Boom Stage 5

Working Radius	15	16	20	23	26	30	33	36	40.2
MAX-EXT	SAFE USE		PROHIBITED AREA OF OPERATIONS						
HALF-EXT									
NOT-EXT									

Boom Stage 6

Working Radius	16	18	20	23	26	30	33	36	39	43	47.3
MAX-EXT	PROHIBITED AREA OF OPERATIONS										
HALF-EXT											
NOT-EXT											

Load Charts

URW 306T AERIAL WORK PLATFORM Load Chart

Boom Stage 1+2

Working Radius	6.5	8	10	11	13	15	17	18.6
MAX-EXT	SAFE USE							
HALF-EXT								
NOT-EXT								PROHIBITED

Boom Stage 3

Working Radius	8.5	10	11	13	15	16	18	20	23	25.8
MAX-EXT	SAFE USE									
HALF-EXT									PROHIBITED AREA OF OPERATIONS	
NOT-EXT										

Boom Stage 4

Working Radius	13	15	16	20	23	26	30	33
MAX-EXT	SAFE USE							
HALF-EXT						PROHIBITED AREA OF OPERATIONS		
NOT-EXT								

Boom Stage 5

Working Radius	15	16	20	23	26	30	33	36	40.2
MAX-EXT	SAFE USE		PROHIBITED AREA OF OPERATIONS						
HALF-EXT									
NOT-EXT									

Boom Stage 6

Working Radius	16	18	20	23	26	30	33	36	39	43	47.3
MAX-EXT	PROHIBITED AREA OF OPERATIONS										
HALF-EXT											
NOT-EXT											

URW 506 AERIAL WORK PLATFORM Load Chart

Boom Stage 1+2+3

Working Radius	10	12.1	13	14	16	18	21	24	28
MAX-EXT	SAFE USE								
HALF-EXT									
NOT-EXT									PROHIBITED

Boom Stage 4

Working Radius	13.1	14	16	19	22	26	29	32	35.6
MAX-EXT	SAFE USE								
HALF-EXT								PROHIBITED AREA OF OPERATIONS	
NOT-EXT									

Boom Stage 5

Working Radius	16.4	18	22	26	29	32	36	39	43.3
MAX-EXT	SAFE USE						PROHIBITED AREA OF OPERATIONS		
HALF-EXT									
NOT-EXT									

Boom Stage 6

Working Radius	19.7	23	26	29	32	36	39	42	45	49.9
MAX-EXT	SAFE USE	PROHIBITED AREA OF OPERATIONS								
HALF-EXT										
NOT-EXT										

Load Charts

URW 546 AERIAL WORK PLATFORM Load Chart

Boom Stage 1+2

Working Radius	8	9.5	11	13	14	16	19	19.5	20.1
MAX-EXT	SAFE USE								
HALF-EXT									
NOT-EXT									

Boom Stage 3

Working Radius	11.5	13	15	16	18	20	21	23	24	26	27.9
MAX-EXT	SAFE USE										
HALF-EXT											
NOT-EXT											PROHIBITED

Boom Stage 4

Working Radius	13	14	15	16	18	20	23	26	29	32	35.6
MAX-EXT	SAFE USE										
HALF-EXT											
NOT-EXT									PROHIBITED AREA OF OPERATIONS		

Boom Stage 5

Working Radius	16	18	20	23	26	30	33	36	39	43.2
MAX-EXT	SAFE USE							PROHIBITED AREA OF OPERATIONS		
HALF-EXT							PROHIBITED AREA OF OPERATIONS			
NOT-EXT						PROHIBITED AREA OF OPERATIONS				

Boom Stage 6

Working Radius	19	23	26	29	33	36	39	43	46	49	50.9
MAX-EXT	SAFE USE					PROHIBITED AREA OF OPERATIONS					
HALF-EXT		PROHIBITED AREA OF OPERATIONS									
NOT-EXT											

URW 547 AERIAL WORK PLATFORM Load Chart

Boom Length 15.5' + 25.2'

Working Radius	8	10	11	13	14	16	18	19	23	24.6
MAX-EXT	SAFE USE									
HALF-EXT										
NOT-EXT										

Boom Length 34.9'

Working Radius	11.5	13	16	19	23	26	29	32	34.4
MAX-EXT	SAFE USE								
HALF-EXT									
NOT-EXT									

Boom Length 44.5'

Working Radius	13	14	16	19	23	26	29	32	36	39	42	43.9
MAX-EXT	SAFE USE										PROHIBITED AREA OF OPERATIONS	
HALF-EXT									PROHIBITED AREA OF OPERATIONS			
NOT-EXT								PROHIBITED AREA OF OPERATIONS				

Boom Length 54'

Working Radius	16	18	19	23	26	29	32	36	39	42	46	49	52	53.4
MAX-EXT	SAFE USE							PROHIBITED AREA OF OPERATIONS						
HALF-EXT							PROHIBITED AREA OF OPERATIONS							
NOT-EXT						PROHIBITED AREA OF OPERATIONS								

Boom Length 59.1'

Working Radius	19	23	26	29	32	36	39	42	46	49	52	55	58.5
MAX-EXT	PROHIBITED AREA OF OPERATIONS												
HALF-EXT													
NOT-EXT													

Load Charts

URW 706 AERIAL WORK PLATFORM Load Chart

Boom Stage 1

Working Radius	9	10	11.5	13	14
MAX-EXT	SAFE USE				
HALF-EXT					
NOT-EXT					

Boom Stage 2

Working Radius	6.5	10	11.5	13	16.5	19.5	23	23.5
MAX-EXT	SAFE USE							
HALF-EXT								
NOT-EXT								

Boom Stage 3

Working Radius	9	13	16.5	19.5	23	26	30	32	33
MAX-EXT	SAFE USE								
HALF-EXT									
NOT-EXT								PROHIBITED AREA	

Boom Stage 4

Working Radius	16.5	19.5	23	26	30	32	36	39	42
MAX-EXT	SAFE USE								
HALF-EXT									
NOT-EXT							PROHIBITED AREA OF OPERATIONS		

Boom Stage 5

Working Radius	19.5	26	30	32	36	39	43	46	49	52
MAX-EXT	SAFE USE									
HALF-EXT								PROHIBITED AREA OF OPERATIONS		
NOT-EXT										

Boom Stage 6

Working Radius	26	32	39	46	52	59	61
MAX-EXT					PROHIBITED AREA OF OPERATIONS		
HALF-EXT	SAFE USE						
NOT-EXT							