SUPERCRANE™ 643

- Hydraulic undercarriage extendable
- 4/2/1 Fall hook block

- Climatised cabin enclosed
- Maxicabin tilt cabin

- 40.0t
- 32.0m boom
- 45.0m with fly jib
- 36.0t pick & carry capacity

- Triple bar
- Load moment indicator system

The Preston Hire 643 has a 32.0m robust 4 section telescopic boom that can be used under load even on rough terrain. Its 40.0t capacity make it simple and easy transport and ready to use quickly. Maximum extension of 13m with folding fly jib. Can be used with a second hook on the auxiliary fly jib (6t). Consider the possibilities...

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SPECIFICATIONS SUPERCRANE™
643

DIMENSIONS

Length	9728mm
Width	3000m Retracted 4500m Extended
Height	3226mm
Weight	42000kg (operating-approx.)

CAPACITY

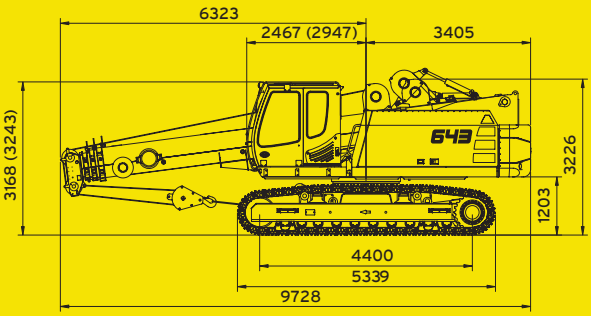
Max. capacity	40000kg at 2.0m
Max. working radius (main boom)	1500kg at 27.1m
Max. working radius (fly jib)	600kg at 38.0m
Max. lifting height (main boom)	30.0m
Max. lifting height (fly jib)	43.0m

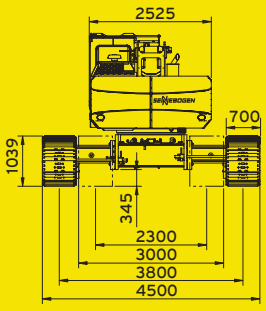
TRACK

Width	700mm

MIN. TRANSPORT WIDTH

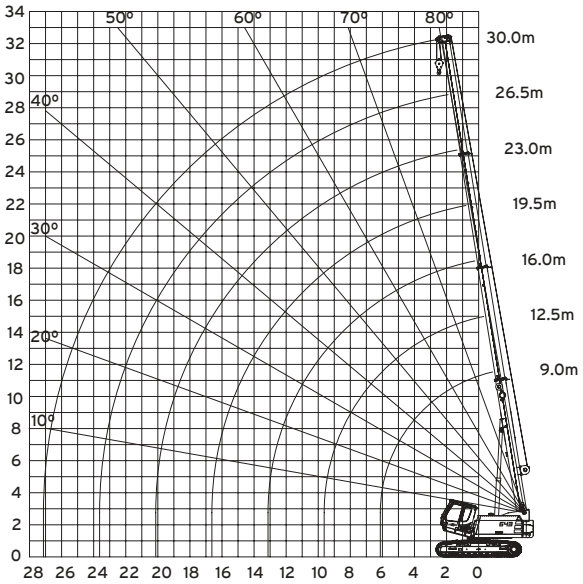
Overall Track	3000mm
Overall Unit	3000mm



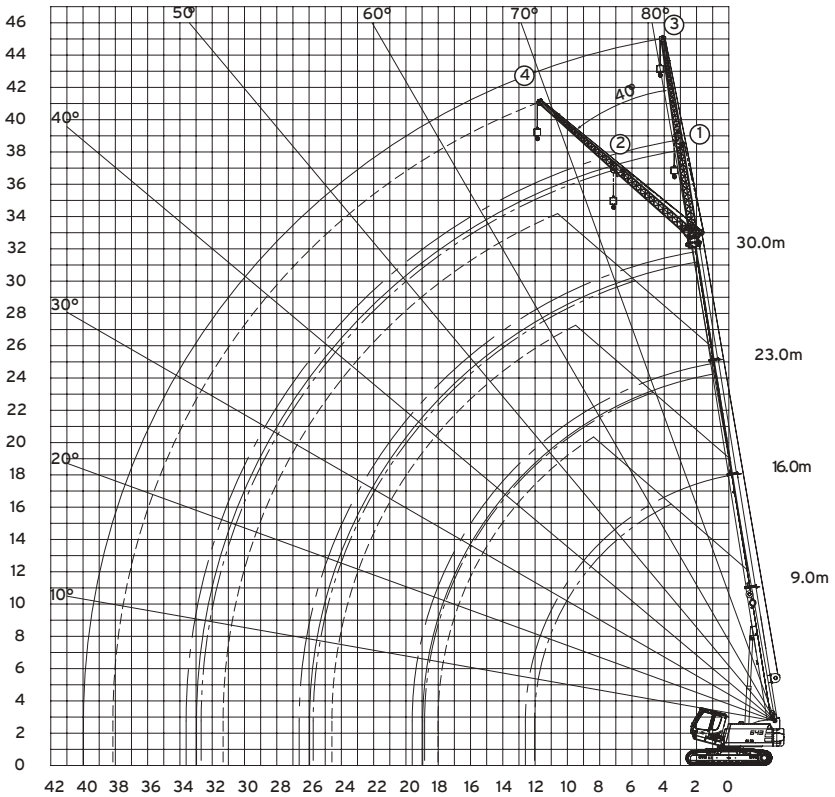


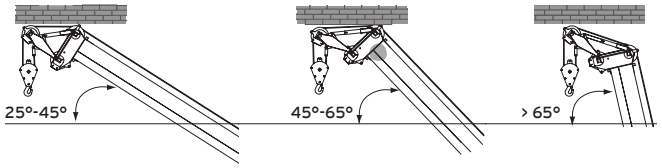
WORKING RANGE

BOOM 9-30M



FOLDING JIB





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LOAD CHART SUPERCRANE™
643

13M FOLDING JIB LOAD CHART

7t+4tcounterweight, 30m main boom, 13m folding jib

TOTAL RATED LOAD

	9.0m Boom		16.0m Boom		23.0m Boom		30.0m Boom	
Working Radius (m)	Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)	
	0˚	40˚	0˚	40˚	0˚	40˚	0˚	40˚
2.0								
3.0	3.0							
4.0	3.0							
5.0	3.0		3.0					
6.0	3.0		3.0					
7.0	2.9		3.0		3.0			
8.0	2.6		3.0		3.0			
9.0	2.3		2.9		3.0		2.0	
10.0	2.1	1.6	2.7		2.9		2.0	
11.0	2.0	1.5	2.5		2.7		2.0	
12.0	1.8	1.4	2.4	1.5	2.6		2.0	
13.0	1.7	1.4	2.2	1.5	2.5		2.0	
14.0	1.6	1.3	2.1	1.5	2.4	1.5	2.0	
15.0	1.6	1.3	2.0	1.4	2.3	1.5	2.0	
16.0	1.5	1.3	1.9	1.4	2.2	1.4	2.0	1.5
18.0	1.1		1.7	1.3	2.0	1.4	2.0	1.4
20.0			1.6	1.3	1.8	1.3	1.9	1.4
22.0			1.4		1.7	1.3	1.7	1.3
24.0			1.3		1.6	1.3	1.4/1.6	1.3
26.0					1.3/1.4	1.3	1.2/1.4	1.2
28.0					1.0/1.3		1.0/1.3	1.2
30.0					0.8/1.3		0.8/1.2	1.1
32.0					0.6/1.1		0.6/1.1	0.8/1.1
34.0							-/0.9	
36.0							-/0.7	
38.0							-/0.6	

PARTS REEVING

	1	1	1	1	1	1	1	1
I	0%	0%	100%	100%	100%	100%	100%	100%
II	0%	0%	0%	0%	50%	50%	100%	100%
III	0%	0%	0%	0%	50%	50%	100%	100%

The total rated load charts are based on the actual working radius including boom deflection.

Disclaimer. All information provided in this publication is correct at tim e of printing.
Please contact Preston Hire for any updated versions.

LOAD CHART SUPERCRANE™
643

MAIN BOOM LOAD CHART

7t + 4t counterweight, 9-39m main boom

TOTAL RATED LOAD

	9.0m Boom		12.5m Boom		16.0m Boom		19.5m Boom		23.0m Boom		26.5m Boom		30.0m Boom	
Working Radius (m)	Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)	
	⟷	><	⟷	><	⟷	><	⟷	><	⟷	><	⟷	><	⟷	><
2.0	40.0*	40.0*												
3.0	35.0	33.0	20.0	20.0	15.0	15.0	14.0	14.0	11.0	11.0	8.9	8.9	5.0	5.0
4.0	30.2	20.2	20.0	19.9	15.0	15.0	14.0	14.0	11.0	11.0	8.9	8.9	5.0	5.0
5.0	25.5	14.2	20.0	14.0	15.0	13.9	13.3	13.3	11.0	11.0	8.6	8.6	5.0	5.0
6.0	18.6	10.7	18.5	10.5	14.9	10.5	12.0	10.9	10.3	10.3	8.3	8.3	5.0	5.0
7.0	12.2/6.2m	10.2/6.2m	14.3	8.3	13.2	8.2	10.9	8.6	9.5	8.9	7.8	7.8	5.0	5.0
8.0			11.5	6.7	11.4	6.6	9.8	7.0	8.7	7.3	7.4	7.4	5.0	5.0
9.0			9.5	5.5	9.4	5.4	9.0	5.8	7.9	6.1	6.9	6.2	5.0	5.0
10.0			7.5/9.6m	4.9/9.6m	8.0	4.5	8.3	4.9	7.1	5.1	6.4	5.3	5.0	5.0
11.0					6.8	3.7	7.2	4.1	6.5	4.4	5.9	4.5	5.0	4.7
12.0					5.9	3.1	6.2	3.5	5.9	3.7	5.5	3.9	5.0	4.1
13.0					5.0	2.6	5.4	3.0	5.5	3.2	5.1	3.4	4.7	3.5
14.0							4.8	2.6	5.0	2.8	4.8	3.0	4.4	3.1
15.0							4.2	2.2	4.5	2.4	4.5	2.6	4.1	2.7
16.0							3.7	1.9	4.0	2.1	4.2	2.3	3.8	2.4
17.0							3.5/16.6m	1.7/16.6m	3.6	1.8	3.7	2.0	3.6	2.1
18.0									3.2	1.6	3.4	1.7	3.3	1.9
19.0									2.9	1.3	3.0	1.5	3.1	1.6
20.0									2.6	1.1	2.7	1.3	2.9	1.4
21.0									2.5/20.1m	1.1/20.1m	2.5	1.1	2.6	1.3
22.0											2.2	1.0	2.4	1.1
23.0											1.9/23.6m	0.7/23.6m	2.2	0.9
24.0													2.0	0.8
25.0													1.8	0.7
26.0													1.6	0.6
27.0													1.5	0.5
28.0													1.5/27.1m	0.5/27.1m

PARTS REEVING

	10	10	6	6	5	5	4	4	4	4	3	3	2	2
I	0%	0%	50%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
II	0%	0%	0%	0%	0%	0%	25%	25%	50%	50%	75%	75%	100%	100%
III	0%	0%	0%	0%	0%	0%	25%	25%	50%	50%	75%	75%	100%	100%

LOAD CHART SUPERCRANE™
643

JIB LOAD CHART

7t +4t counterweight, jib

TOTAL RATED LOAD

Working Radius (m)	9.0m Boom		12.5m Boom		16.0m Boom		19.5m Boom		23.0m Boom		26.5m Boom		30.0m Boom	
	Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)	
2.0														
3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0/3.5m	5.0/3.5m
4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
7.0	6.0/6.7m	6.0/6.7m	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
8.0			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
9.0			6.0	5.4	6.0	5.3	6.0	5.7	6.0	6.0	6.0	6.0	5.0	5.0
10.0			6.0	4.4	6.0	4.4	6.0	4.8	6.0	5.0	6.0	5.2	5.0	4.9
11.0			6.0/10.2m	4.2/10.2m	6.0	3.6	6.0	4.0	6.0	4.3	5.8	4.4	5.0	4.6
12.0					5.8	3.0	6.0	3.4	5.8	3.6	5.4	3.8	4.9	4.0
13.0					4.9	2.5	5.3	2.9	5.4	3.1	5.0	3.3	4.6	3.4
14.0					4.3/13.7m	2.1/13.7m	4.7	2.5	4.9	2.7	4.7	2.9	4.3	3.0
15.0							4.1	2.1	4.4	2.3	4.4	2.5	4.0	2.6
16.0							3.6	1.8	3.9	2.0	4.1	2.2	3.7	2.3
17.0							3.1	1.5	3.5	1.7	3.6	1.9	3.5	2.0
18.0							3.0/17.2m	1.4/17.2m	3.1	1.5	3.3	1.6	3.2	1.8
19.0									2.8	1.2	2.9	1.4	3.0	1.5
20.0									2.5	1.0	2.6	1.2	2.8	1.3
21.0									2.2/20.7m	0.8/20.7m	2.4	1.0	2.5	1.2
22.0											2.1	0.9	2.3	1.0
23.0											1.8	0.7	2.1	0.8
24.0											1.7/24.2m	0.6/24.2m	1.9	0.7
25.0													1.7	0.6
26.0													1.5	0.5
27.0													1.4	
28.0													1.4/27.1m	

PARTS REEVING

	2	2	2	2	2	2	2	2	2	2	2	2	2	2
I	0%	0%	50%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
II	0%	0%	0%	0%	0%	0%	25%	25%	50%	50%	75%	75%	100%	100%
III	0%	0%	0%	0%	0%	0%	25%	25%	50%	50%	75%	75%	100%	100%

When the jib is mounted atthe basic mainboom the rated loads have to be reduced:

Main Boom Length (m)	9.0	12.5	16.0	19.5	23.0	26.5	30.0
Reduction Of Load (kg)	570	420	330	280	240	210	180

LOAD CHART SUPERCRANE™
643

6.5M FOLDING JIB LOAD CHART

7t + 4t counerweight, 30m main boom, 6.5m folding jib

TOTAL RATED LOAD

	9.0m Boom		16.0m Boom		23.0m Boom		30.0m Boom	
Working Radius (m)	Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)		Total Rated Load (t)	
	0˚	40˚	0˚	40˚	0˚	40˚	0˚	40˚
2.0								
3.0	6.0		6.0					
4.0	6.0		6.0					
5.0	5.5	3.5	6.0		6.0			
6.0	4.9	3.3	6.0	3.6	6.0			
7.0	4.4	3.1	5.9	3.4	6.0		3.5	
8.0	4.0	2.9	5.4	3.3	5.9	3.4	3.5	
9.0	3.7	2.8	5.0	3.2	5.6	3.3	3.5	
10.0	3.4	2.7	4.6	3.1	5.3	3.2	3.5	3.2
11.0	3.1		4.3	3.0	5.0	3.2	3.5	3.0
12.0	2.8		4.1	2.8	4.7	3.1	3.5	2.9
13.0			3.9	2.8	4.2/4.4	3.0	3.5	2.8
14.0			3.7/3.3	2.8	3.7/4.2	2.9	3.3	2.7
15.0			3.4/3.5		3.3/3.9	2.9	3.0	2.5
16.0			3.0/3.3		3.0/3.7	2.8	2.8	2.4
18.0			2.3/2.9		2.4/3.3	2.7	2.3/2.4	2.3
20.0					1.9/2.7	2.1/2.6	1.8/2.1	2.1
22.0					1.5/2.2		1.5/1.9	1.7/1.9
24.0					1.1/1.7		1.1/1.8	1.4/1.7
26.0					0.8/1.4		0.9/1.5	1.0/1.6
28.0							0.7/1.2	
30.0							-/0.9	
32.0							-/0.7	
34.0								
36.0								
38.0								

PARTS REEVING

	2	1	2	2	2	1	1	1
I	0%	0%	100%	100%	100%	100%	100%	100%
II	0%	0%	0%	0%	50%	50%	100%	100%
III	0%	0%	0%	0%	50%	50%	100%	100%