Technical Data
Hydraulic Crawler Crane

HS 855 SX
Litronic®
Complies with ANSI B 30.5

Basic machine with undercarriage

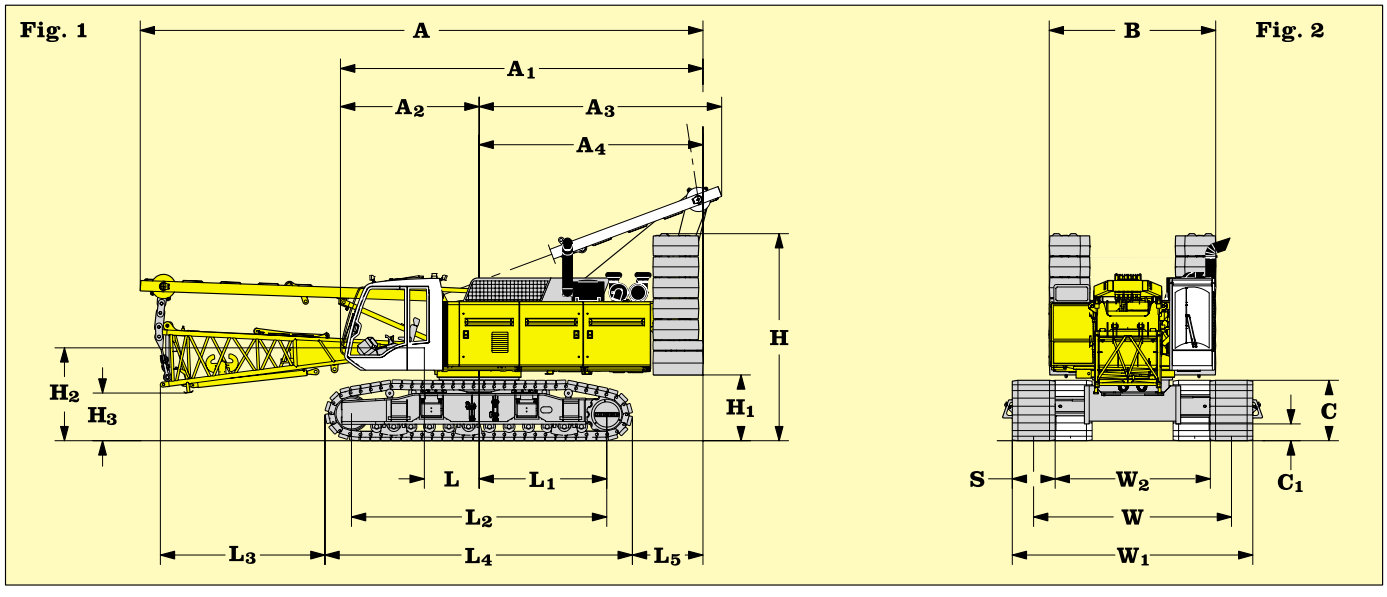


Fig. 1: Dimensions in ft

A Overall length of superstructure with lowered A–frame and boom foot — 38’ 9”
A_1 Length of superstructure — 15’ 5”
A_2 Centre of rotation – front edge of cabin — 9’ 6”
A_3 Tail reach– A–frame in working position 86° — 24’11”
A_4 Tail swing radius — 16’ 9”

H Height over counterweight — 14’ 3”
H_1 Ground clearance of superstructure — 4’ 6”
H_2 Ground clearance of boom foot pivot — 6’ 5”
H_3 Ground clearance of horizontal boom foot — 3’ 3”

L Centre of rotation – boom foot pivot — 45”
L_1 Centre of rotation – centre of tumbler — 8’10”
L_2 Wheel base (centre idler to centre tumbler) — 17’ 7”
L_3 Distance from edge of horizontal boom foot to crawler — 11’ 4”
L_4 Length of crawlers — 21’
L_5 Distance between rear end of crawler and outside of counterweight — 59”

Fig. 2: Dimensions in ft

B Width of superstructure — 11’ 6”

C Height of crawlers — 50”
C_1 Ground clearance of undercarriage — 14”

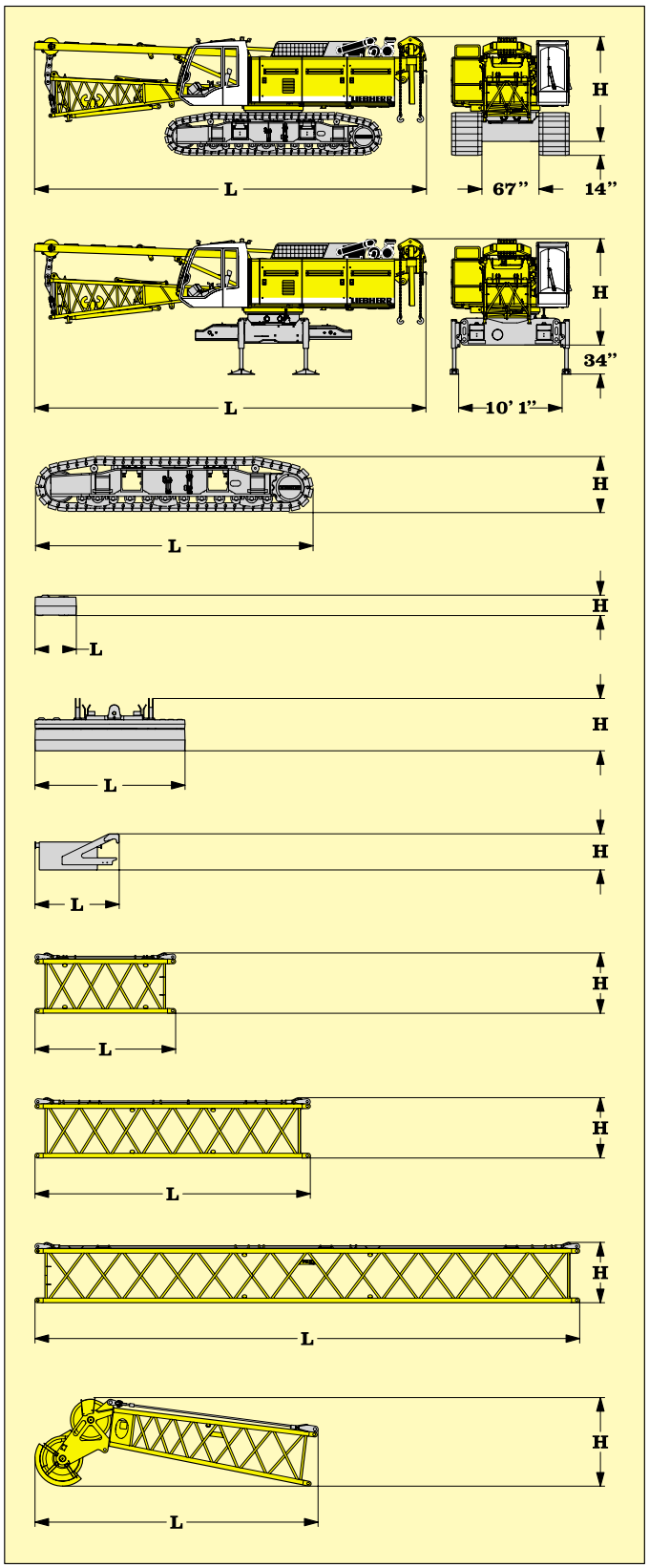
S Width of pads — 35”

W Track width of undercarriage — 13’ 7”
W_1 Width of undercarriage — 16’ 7”
W_2 Track width for transport — 11’ 6”

Operating weight and ground pressure

The operating weight includes the basic machine with crawlers, 35 inch flat pads, 2 main winches 44.100 lbs and 46 ft main boom (No. 1311.xx) consisting of A–frame, boom foot (18 ft), boom head (28 ft), 71.200 lbs counterweight, 33.100 lbs carbody counterweight.

Total weight — **239.700 lbs**
Ground bearing pressure — **18.0 psi**



*) Including pendants

Basic machine

with HD undercarriage, boom foot (1311.xx), A–frame and 2x 44.100 lbs winches including wire ropes (492 ft), without basic counterweight

L Length	38’ 5”
H Height	10’ 5”
Width	11’ 6”
Weight in lbs	129.700

Basic machine

with boom foot (1311.xx), A–frame and 2x 44.100 lbs winches including wire ropes (492 ft), without basic counterweight and crawlers

L Length	38’ 5”
H Height	10’ 5”
Width	11’ 6”
Weight in lbs	84.500

Crawler 2x

L Length	21’
H Height	4’ 2”
Width	35”
Weight in lbs	22.500

Counterweight 10x

L Length	38”
H Height	19”
Width	34”
Weight in lbs	3.300

Counterweight 1x

L Length	11’ 6”
H Height	48”
Width	41”
Weight in lbs	38.200

Carbody counterweight 2x

L Length	6’ 5”
H Height	33”
Width	5’ 5”
Weight in lbs	16.550

Tubular boom section (No. 1311.xx) 10 ft

L Length	10’ 4”
H Height	4’ 1”
Width	4’ 7”
Weight* in lbs	1.100

Tubular boom section (No. 1311.xx) 20 ft

L Length	20’ 2”
H Height	4’ 1”
Width	4’ 7”
Weight* in lbs	1.760

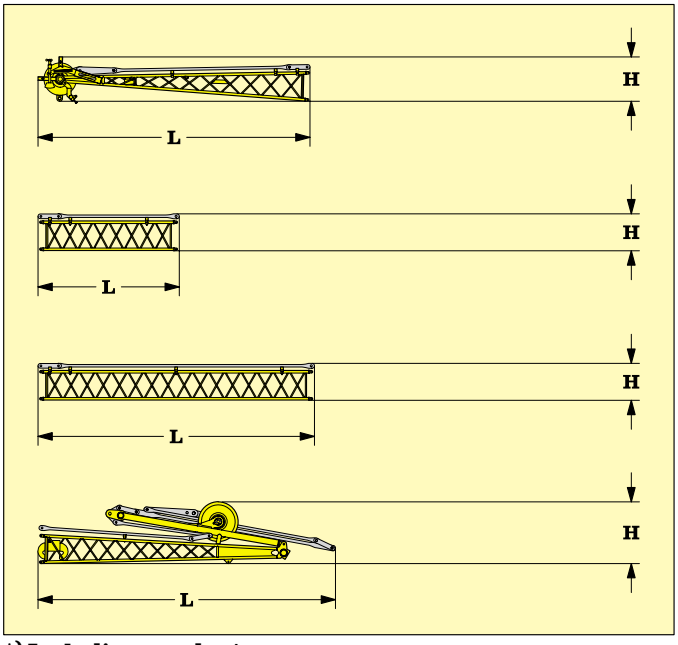
Tubular boom section (No. 1311.xx) 40 ft

L Length	39’ 10”
H Height	4’ 1”
Width	4’ 7”
Weight* in lbs	2.800

Boom head (No. 1311.xx) 18 ft

L Length	20’ 8”
H Height	6’ 6”
Width	53”
Weight in lbs*	4.350

Transport dimensions and weights



*) Including pendants

Fixed jib head (No. 0806.xx)

L Length	19’10”
H Height	39”
Width	45”
Weight* in lbs	985

Tubular fixed jib section (No. 0806.xx) 10 ft

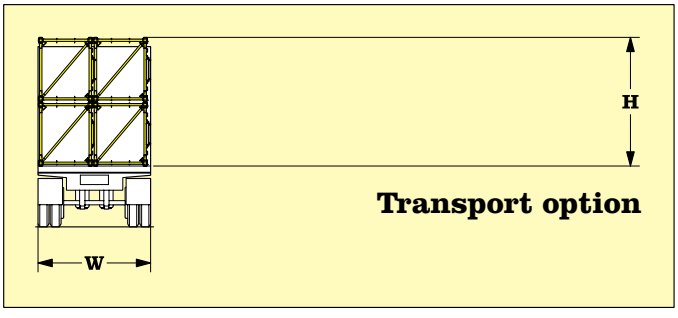
L Length	10’ 4”
H Height	32”
Width	38”
Weight* in lbs	245

Tubular fixed jib section (No. 0806.xx) 20 ft

L Length	20’ 2”
H Height	32”
Width	38”
Weight* in lbs	430

Fixed jib foot with A–frames (No. 0806.xx)

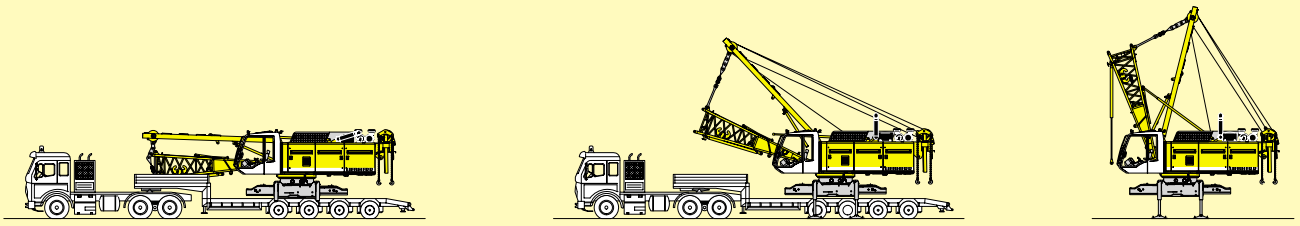
L Length	22’ 1”
H Height	55”
Width	40”
Weight* in lbs	2.580



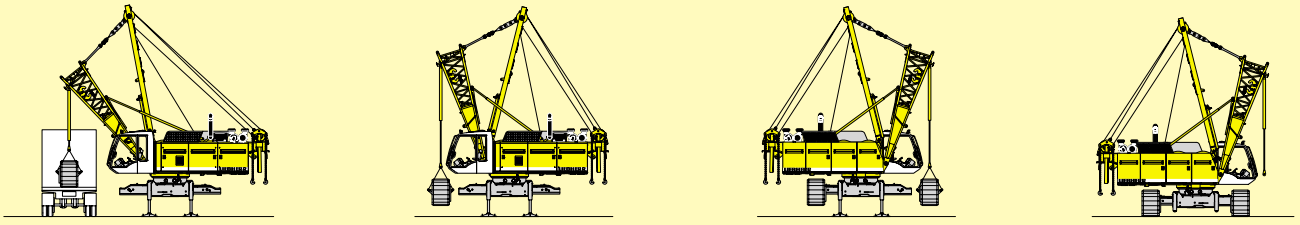
Boom transport option (No. 1311.xx)

L Length	39’10”
H Height	9’ 4”
W Width	8’ 2”
Weight in lbs	11.200

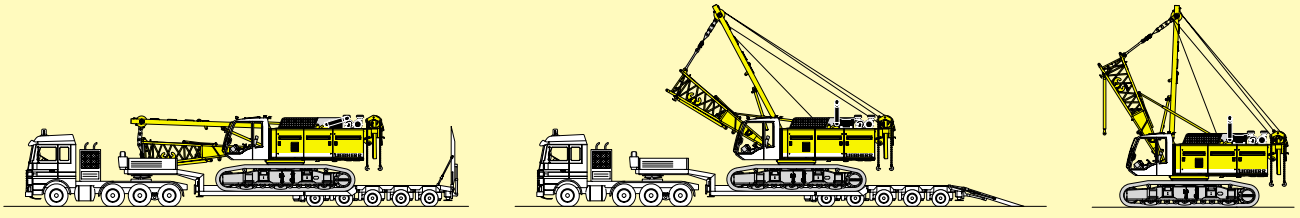
Transport dimensions and weights



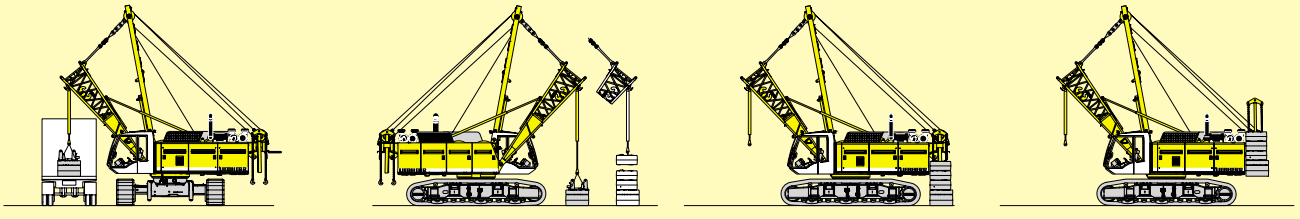
Unloading of basic machine (Optional)



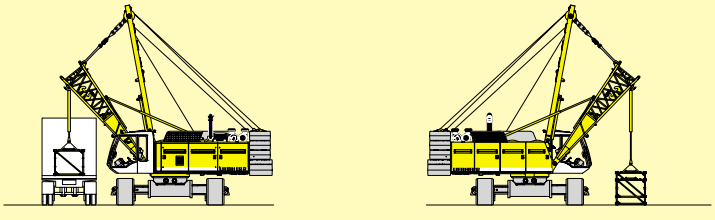
Unloading and assembly of crawlers



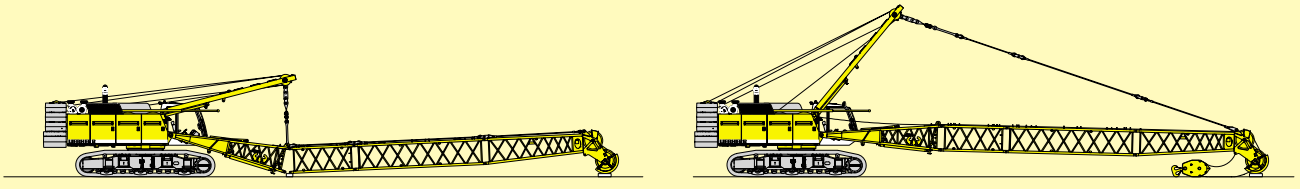
Unloading of basic machine (Standard)



Unloading and assembly of counterweight

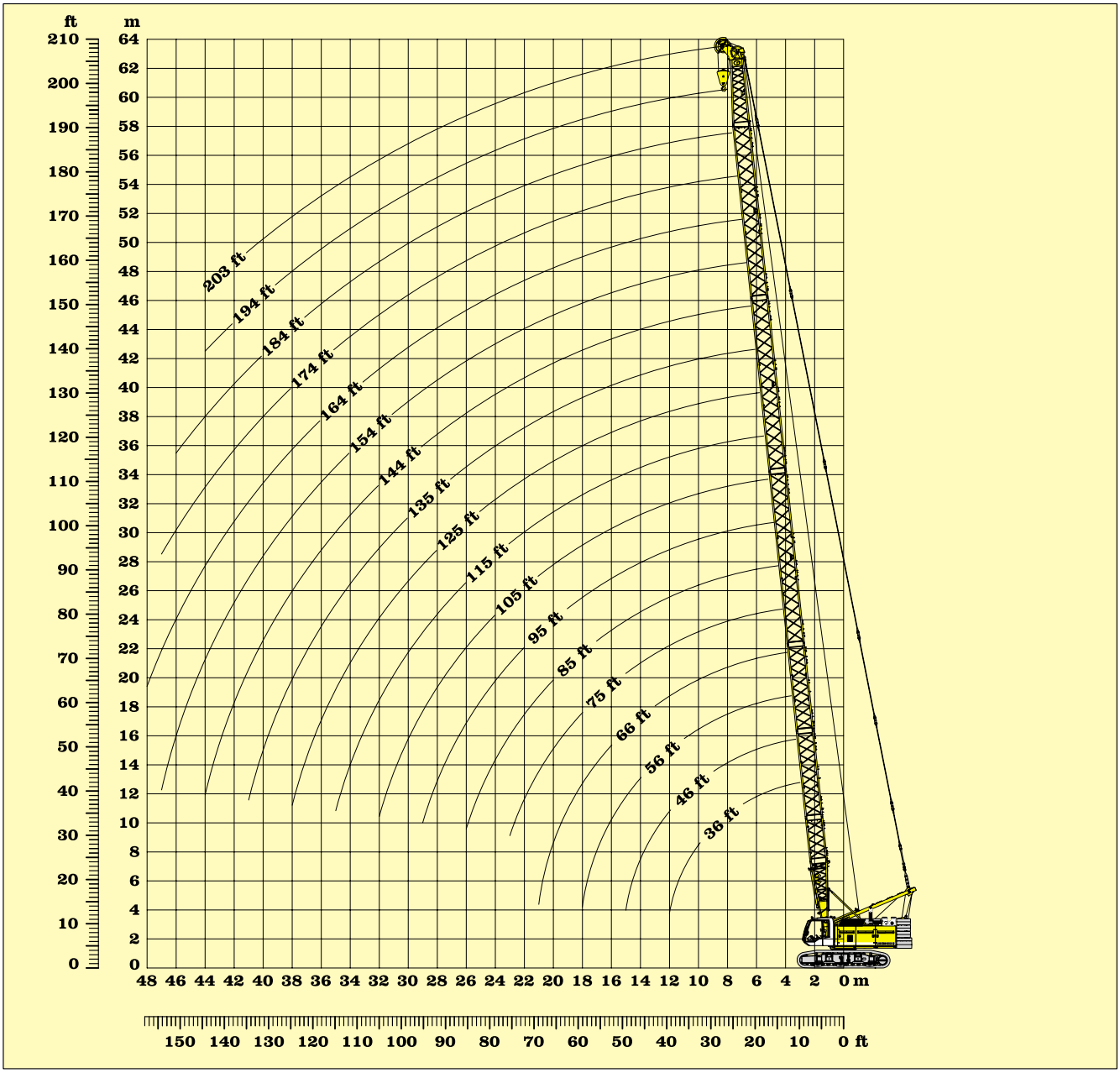


Unloading and assembly of boom



Assembly of boom and reeving of hoist ropes

Self assembly system



Boom configuration

Optimal boom configuration for boom lengths between 36 ft to 226 ft:																					
	Length	Number of boom extensions																			
Boom foot	18 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	**10 ft		1		1		1		1		1		1		1		1		1		1
Boom insert	**20 ft			1	1	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3	3
Boom insert	**40 ft									1	1	1	1	2	2	2	2	3	3	3	3
Boom head	18 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (ft)		36	46	56	66	75	85	95	105	115	125	135	144	154	164	174	184	194	203	213	223

**Actual lengths of boom sections are metric (e.g. 3m, 6m, 12m). The figures shown above are approximate conversions to feet.

Main boom 46 ft to 223 ft
working range 86° – 15°