

# SENEBOGEN®



84 t



470 kW



46,7 m



**6130**  
**HMC**

*Port Crane*

**Specifications****D-Serie**

<b>Diesel engine</b>		<b>Cooling system</b>
Model	<b>Caterpillar C15 Tier III</b>	Large sized cooling system for the engine and hydraulics. Very energy efficient and noise emission reduced through thermically controlled drives
Output optional:	<b>354 kW/481 HP bei 1800 min<sup>-1</sup> oder Caterpillar C18 Tier III</b>	
Output	<b>470 kW/639 HP bei 1800 min<sup>-1</sup> oder</b>	
Direct injection, turbo charged, intercooler, reduced emission		
Cooling	Water cooled	
Air filter	Dry air filter with precleaner, automatic dust discharge, main and safety element, pollution indicator	
Fuel tank	<b>850 l</b>	
Electric system	24 V	
Electric installation	simple and very clear design	
Batteries	2 x 150 Ah, main switch	
<b>Hydraulic system</b>		<b>Working equipment</b>
<b>4 circuit hydraulic system</b> for best funktion and performance for the duty cycle crawler crane, all functions can be driven simultaneously. The hydraulic pumps are variable displacement piston pumps with individual regulation for each pump. The pumps are equipped with an energy-saving flow-on-demand control and pressure cut-off for high-efficiency and reduced loss of energy.		
Oil flow max.	<b>2 x 420 l/min 2 x 200 l/min</b>	
Pressure max.	<b>340 bar</b>	
Filtration	High-efficiency filtration with long-time change interval, pollution indicator SENNEBogen HydroClean micro filtration with water separation, optional	
Hydraulic tank	<b>1000 l / 800 l</b>	
Steering	Proportional, servo electrics, precise control of the working functions, 2 servo joysticks for operating movements, additional functions through switches and foot pedals - in a clear and ergonomical layout	
High efficiency through well sized hydraulic valves and lines		
Central test ports for hydraulic circuits		
Safety valves for all hydraulic circuits		
<b>Swing drive</b>		<b>Undercarriage</b>
2 Compact planetary reduction gears with hydraulic piston motor,		
Parking brake	Multi-disc brake, spring-loaded	
Swing bearing	Strong rollerbearing, sealed	
Swing speed	0-4,0 rpm, stepless	
<b>Upper carriage</b>		<b>SENNEBogen PORTCAB</b>
Design	Torsion resistant box type design, precision machined, brass bushes for the boom pivot Clear, very servicefriendly design longitudinal installation of the engine	Four-axle wheeled undercarriage in heavy duty welded design with integrated outriggers, cylinders with safty check valves and individually controlled.
		Two-axle drive through variable displacement axial piston motors with automatic brake valves.
		Service brake applied to all 8 wheels, separate safety parking brake, spring-loaded
		All wheel drive
		0-6 km/h
		16x 14.00R24 pneumatic tires optional: 16x 14.00-24 solid-rubber tires
<b>SENNEBogen maXcab</b>		<b>SENNEBogen maXcab</b>
		SENNEBogen PORTCAB – spacious cabin resiliently mounted, with excellent all-round view, large floor window pane, air-sprung comfort seat, control instruments based on latest ergonomic standards, powerful heating and temperature-adjustable air conditioning, sun protection, ventilation via flipper and sliding windows, filter for external and circulating air ventilation, deposit options, excellent room feeling
		SENNEBogen maXcab resiliently mounted with sliding door, excellent ergonomics, airconditioning and heating with temperature setting, fresh air / circulating air filter, air suspended comfort seat, excellent 360° visibility, SENNEBOGEN diagnostic system
<b>Subject to technical modification!</b>		

D-Serie

**SENNEBOGEN Harbour Cranes -  
the cost efficient and future  
orientated investment**

**Heavy-duty version with strong double winch,  
very strong performance without over-engineering for:**

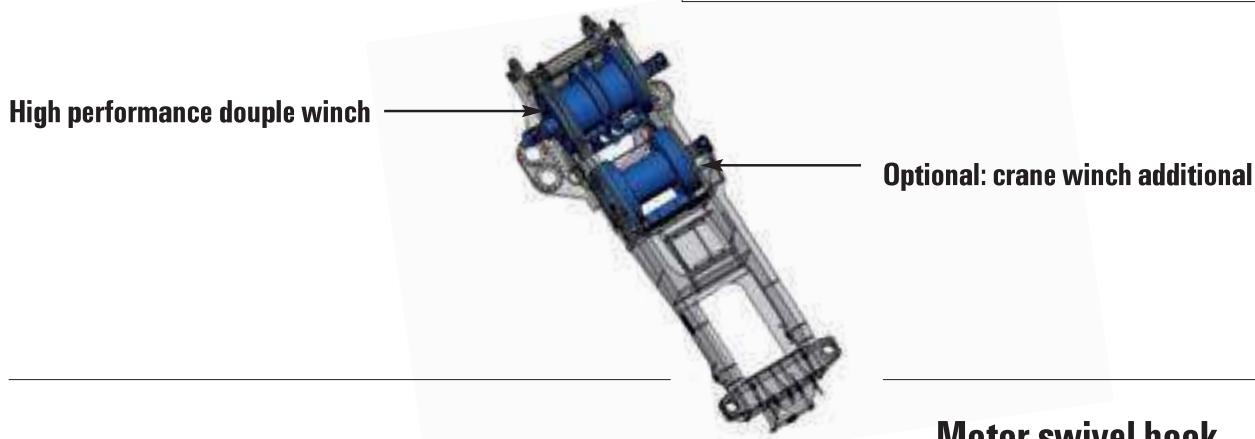
- general cargo
- heavy loads
- bulk material



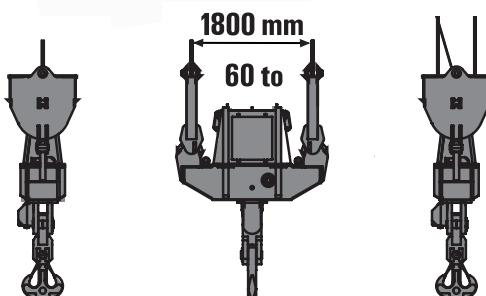
**The powerful double winch guarantees best performance and easy operation****Double winch**

The double winch is driven by 2 pressure regulated variable displacement piston motors, this ensures at any time the best regulation of line speed and line pull, 2 top class performance oil bath planetary gears, low maintenance. Hydraulic brake valves for wear resistant braking of loads. The brake function is effected by spring loaded multiple disc brakes, maintenance free.

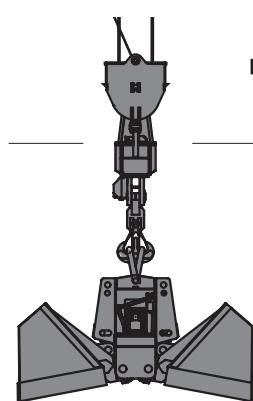
Double winch	2 x 20 t
Single line pull (max.) 1.Layer	2 x 200kN
Rope dia. mm	28
Line speed m/min	0-103
Line pull effectiv at the 28 mm rope with safety factor	2 x 15t

**Motor swivel hook**

Wide upper boom  
Cable reel at the upper boom  
Electric generator



max. 60 to



**Electro hydraulic grab**  
for different bulk materials

**D-Serie**

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orientated investment**

**Heavy Duty Design for:**

- general cargo
- heavy loads
- bulk material

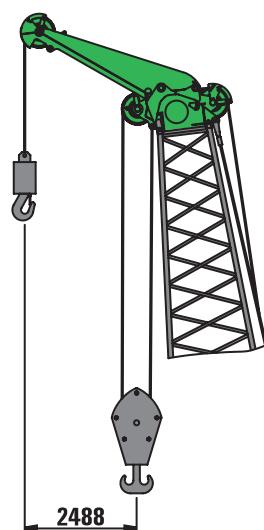
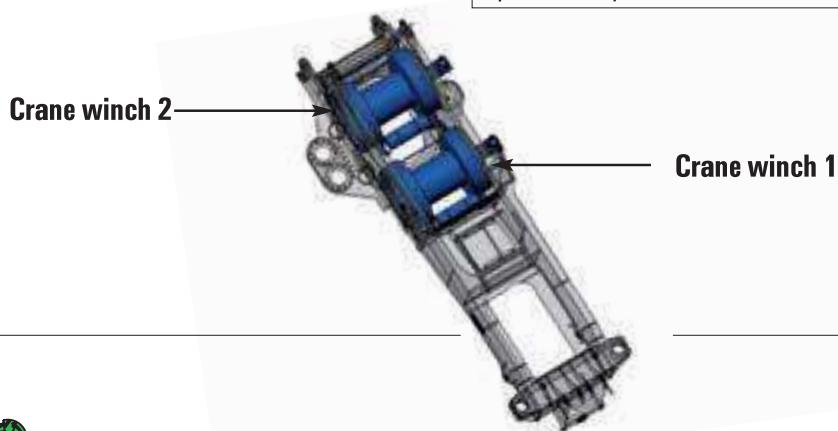


**The classical 2 winch version**

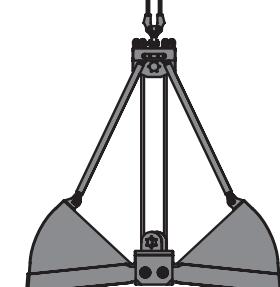
**Winch 1 + Winch 2**

Each winch is driven independently by a directly flanged pressure regulated variable displacement hydraulic piston motor, this ensures at any time the best regulation of line speed and line pull. Hydraulic brake valves for wear resistant braking of loads. Strong low-maintenance oil bath planetary gears. The brake function is effected by a spring loaded multiple disk brake.

Winches	20 t
Single line pull (max.) 1.Layer	200kN
Rope dia. mm	28
Line speed m/min	0-103
Line pull effectiv at the 28 mm rope with safety factor	15t



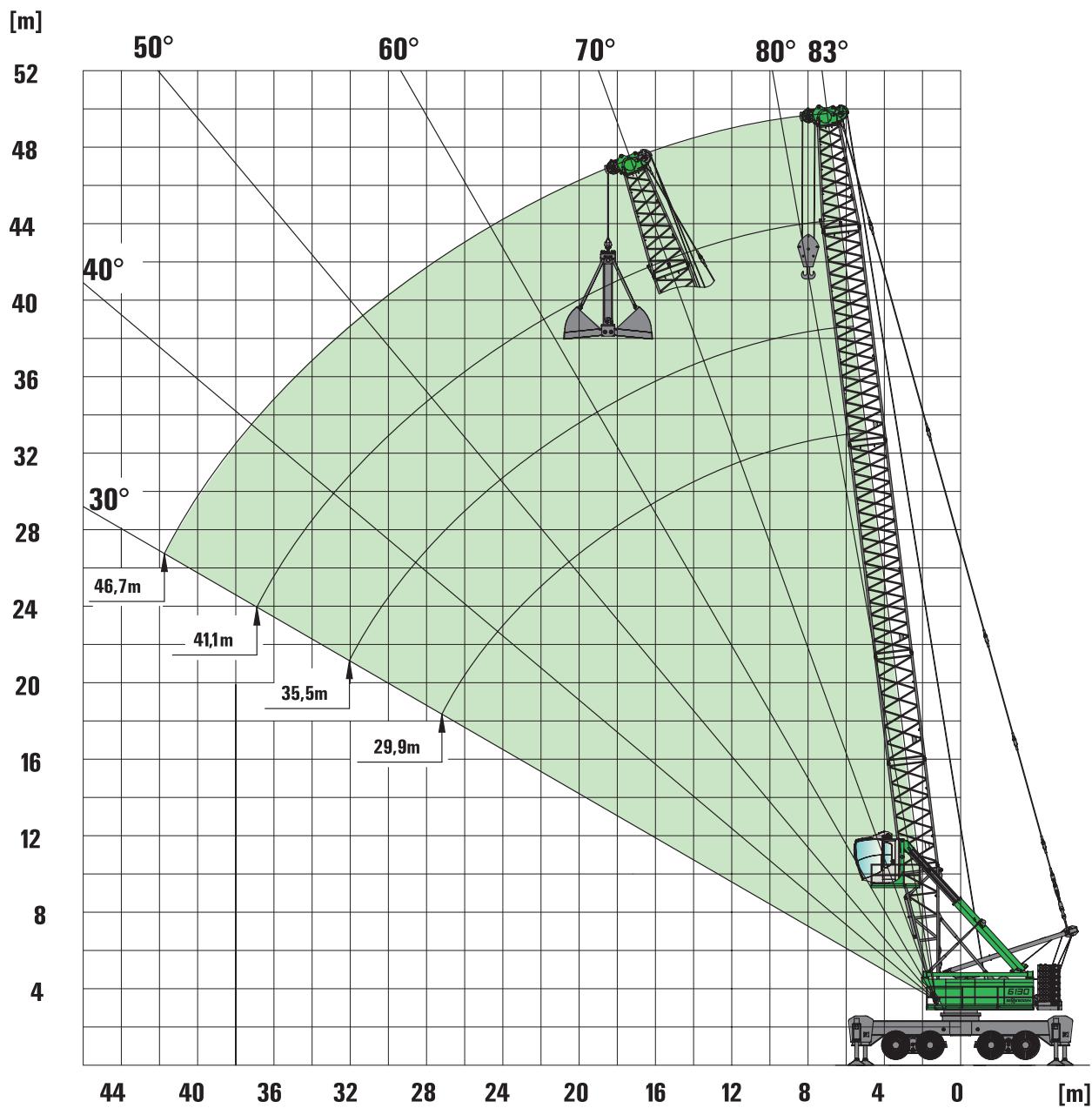
**Haken / hooks**



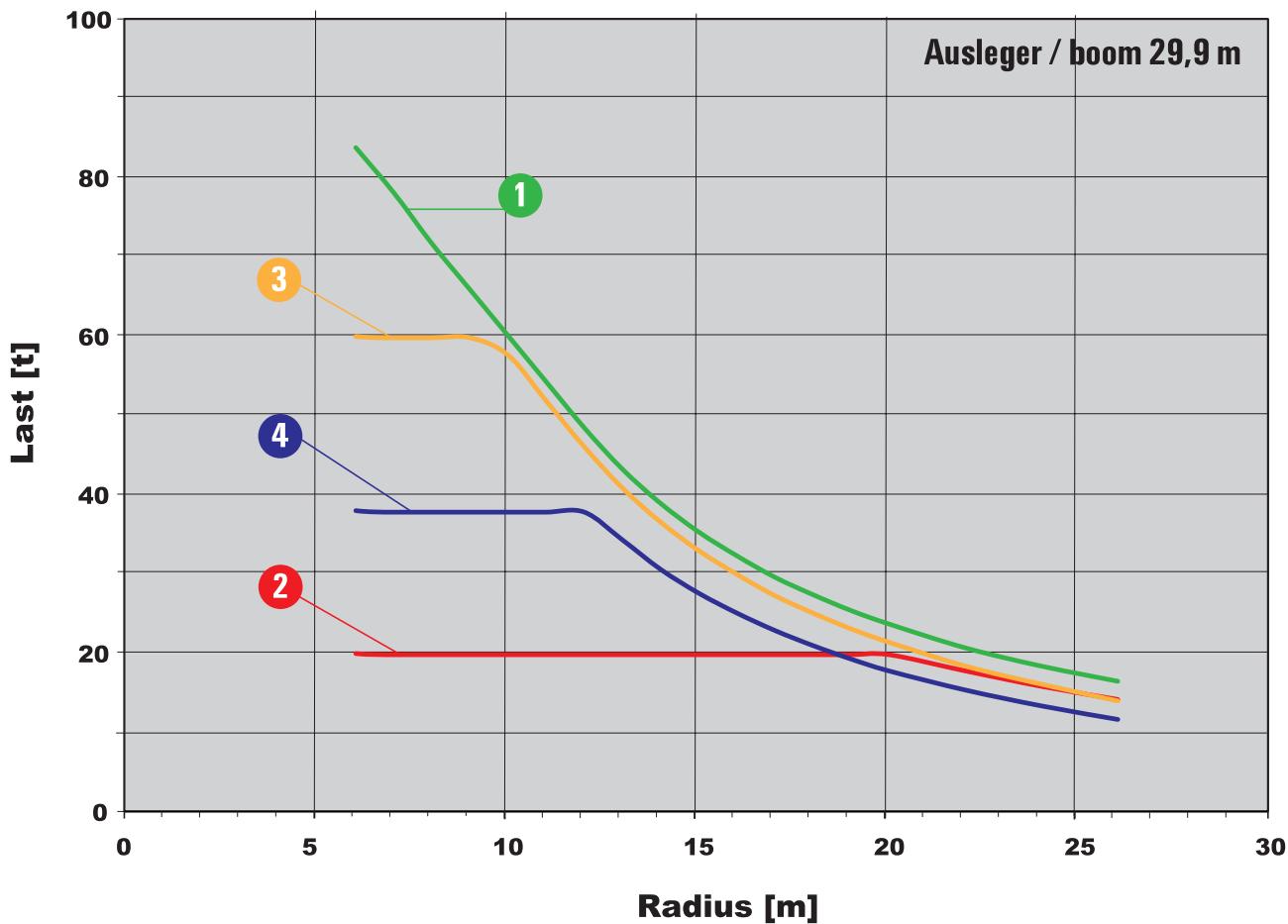
**2 robe grab for different bulk materials  
trapeze line winch**

Für 200 kN Winde mit 28 mm Seildurchmesser - for 200 kN winch with 28 mm rope diameter

Kapazität capacity	Gewicht weight	Seilstränge und max. Traglast - Nr. of ropes and max. rated load													
		14	13	12	11	10	9	8	7	6	5	4	3	2	1
15 t	350 kg														14.000
40 t - 1 Rolle	800 kg												40.000	28.000	14.000
80 t - 3 Rollen	900 kg									80.000	70.000	56.000	42.000	28.000	14.000
100 t - 3 Rollen	950 kg							98.000	84.000	70.000	56.000	42.000	28.000	14.000	



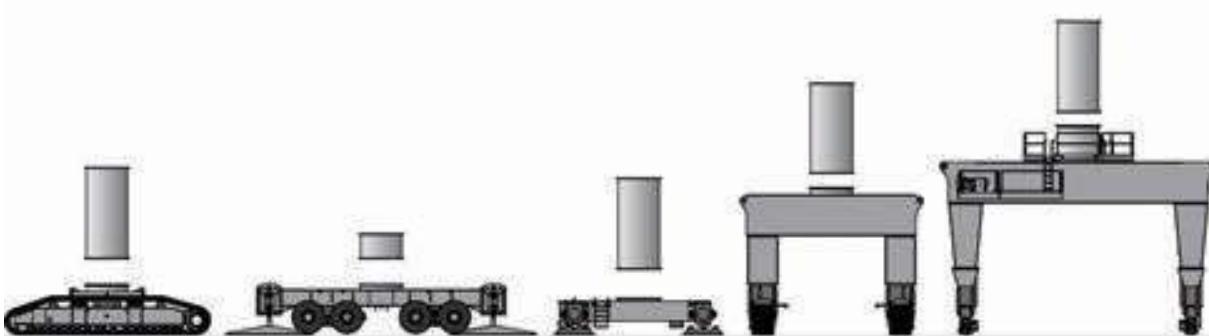
High and radius are shown in [m] meters.

**Lastkurve / Load diagramm****D-Serie****2-Winden Version / 2-winches version**

- 1** hook operation does not exceed 80 % of tipping load
- 2** grab operation does not exceed 67 % of tipping load

**Doppelwinde mit / Double winch**

- 3** Hook operation does not exceed 80 % of tipping load
- 4** grab operation does not exceed 67 % of tipping load

**Best flexibility for optimized benefit**

**Kran-Traglasten / crane load chart**
**D-Serie**

boom length [m]	crane operation standard main boom				two rope clamshell operation standard main boom				swivel hook operation special boom for double winch				swivel hook-clamshell operation special boom for double winch				
	29,9	35,5	41,1	46,7	29,9	35,5	41,1	46,7	29,9	35,5	41,1	46,7	29,9	35,5	41,1	46,7	
	Radius[m]																
5,0																	
6,0	84,0				20,0				60,0				38,0				
7,0	78,3	68,0			20,0	20,0			60,0	60,0			38,0	38,0			
8,0	69,9	64,1	55,0	47,5	20,0	20,0	20,0	20,0	60,0	60,0	52,5	45,0	38,0	38,0	38,0	34,0	
9,0	62,0	59,9	52,0	45,3	20,0	20,0	20,0	20,0	60,0	57,4	49,5	42,8	38,0	38,0	38,0	34,0	
10,0	55,7	55,2	49,1	43,3	20,0	20,0	20,0	20,0	57,8	53,2	46,6	40,8	38,0	38,0	38,0	34,0	
11,0	50,4	49,9	46,2	41,2	20,0	20,0	20,0	20,0	52,0	49,0	43,7	38,7	38,0	38,0	38,0	34,0	
12,0	45,9	45,4	43,4	39,1	20,0	20,0	20,0	20,0	46,2	44,8	40,9	36,6	38,0	38,0	38,0	34,0	
13,0	41,6	41,5	40,5	37,0	20,0	20,0	20,0	20,0	41,0	40,6	38,0	34,5	34,5	34,2	33,9	33,5	
14,0	38,5	38,2	37,6	35,0	20,0	20,0	20,0	20,0	36,7	36,4	35,1	32,5	30,8	30,5	30,2	29,9	
15,0	35,6	35,3	34,7	32,9	20,0	20,0	20,0	20,0	33,1	32,8	32,2	30,4	27,8	27,5	27,2	26,9	
16,0	32,0	32,2	31,8	30,8	20,0	20,0	20,0	20,0	30,1	29,7	29,3	28,3	25,3	24,9	24,6	24,3	
17,0	29,9	29,6	29,2	28,7	20,0	20,0	20,0	20,0	27,4	27,1	26,7	26,2	23,1	22,7	22,4	22,1	
18,0	27,7	27,3	26,9	26,7	20,0	20,0	20,0	20,0	25,2	24,8	24,4	24,1	21,2	20,8	20,5	20,2	
19,0	25,7	25,4	24,9	24,7	20,0	20,0	20,0	20,0	23,2	22,9	22,4	22,1	19,5	19,2	18,8	18,5	
20,0	24,0	23,6	23,2	22,9	20,0	20,0	19,7	19,4	21,5	21,1	20,7	20,3	18,0	17,7	17,4	17,0	
22,0	21,0	20,7	20,2	19,9	17,9	17,5	17,2	16,9	18,5	18,2	17,7	17,3	15,6	15,2	14,9	14,5	
24,0	18,7	18,3	17,8	17,5	15,9	15,5	15,2	14,9	16,2	15,7	15,3	14,9	13,6	13,2	12,9	12,5	
26,0	16,8	16,3	15,9	15,5	14,2	13,9	13,5	13,2	14,1	13,8	13,4	12,9	11,9	11,5	11,2	10,8	
28,0	14,7	14,2	13,9			12,5	12,1	11,8		12,1	11,7	11,2		10,1	9,8	9,4	
30,0		13,3	12,8	12,5		11,3	10,9	10,6		10,7	10,3	9,8		9,0	8,6	8,2	
32,0			12,1	11,6	11,2		10,3	9,9	9,6		9,5	9,1	8,6		8,0	7,6	7,2
34,0				10,6	10,2			9,0	8,7			8,0	7,5		6,7	6,3	
36,0				9,7	9,3			8,2	7,9			7,1	6,6				
38,0						8,5			7,2				5,8				
40,0							7,8			6,6			5,1				
42,0							7,1			6,1			4,4				
44,0																	
46,0																	
48,0																	
50,0																	
parts reeving	6	5	4	4	2	2	2	2	4	4	4	4	4	4	4	4	

**Load diagramm**
**1**
**2**
**3**
**4**
**Notes:**

- The rated loads shown are based on the machine on firm level ground and without travelling.
- The rated loads shown are in metric tons valid for 360 degrees swing.
- The rated loads shown must be decreased by the weight of all lifting attachments, such as hook an bucket.
- In operation crawler must be extended at maximum width (7,0m).
- The users must derate or limit the lifted loads to allow for adverse conditions such as soft or uneven ground, out of level conditions, wind side loads, pendulum action, jerking or sudden stopping of loads inexperience of personnel.
- Loads are valid for the standard SH-boom (hook operation, two rope clamshell operation) or the special SH boom (swivel hook operation with boom head for double winch)
- The lifting capacities above are for reference only. For actual lifting capacities please refer to load chart in operator's manual

**Hook operation / swivel hook operation**

- Liftcrane capacities are calculated to comply with DIN 15019/2 and ISO 4305 (tipping angle 4 deg.)
- Max. single line pull for rope diameter 28mm in crane operation 14.000 kg / swivel hook operation 15.000 kg

**Clamshell operation / swivel hook-clamshell operation**

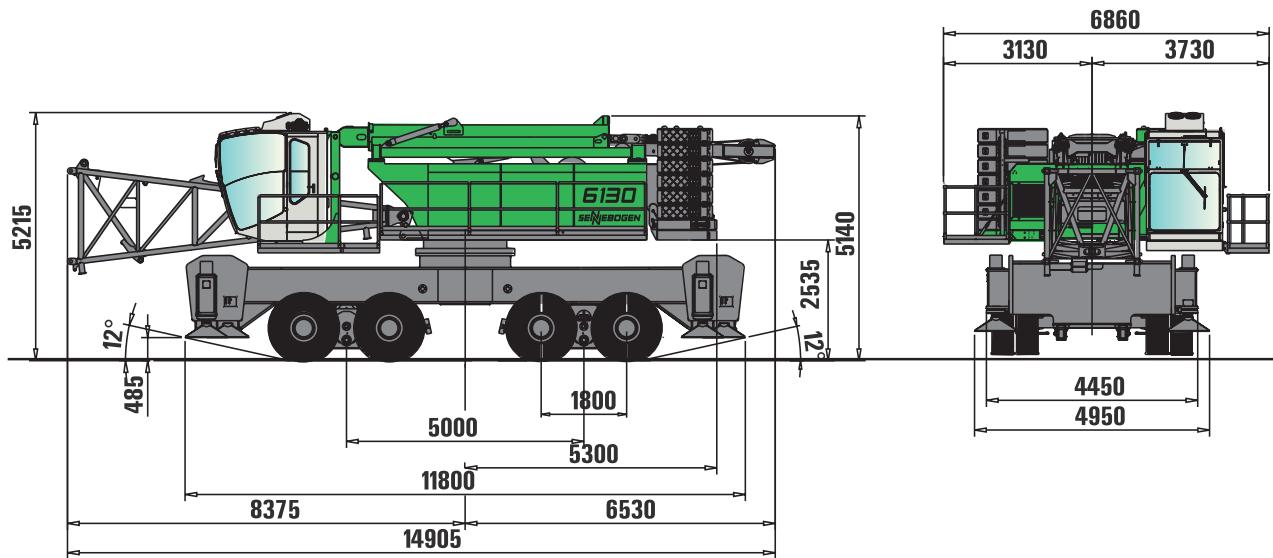
- Capacities do not exceed 66,7% of tipping load, bucket weight and weight of swivel hook has to be deducted from the rated loads

weight of 60t swivel hook: 3,0t

All informations are subject to be changed without prior notice.

**Dimensions**

**D-Serie**

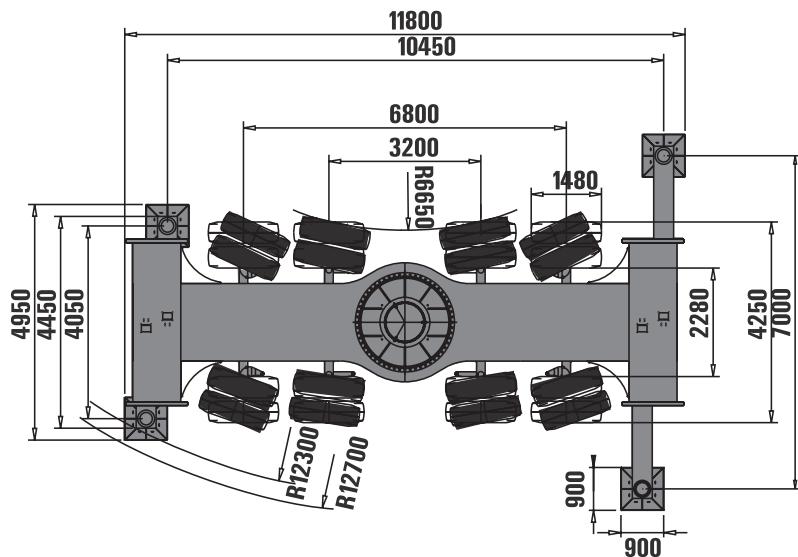


**Operating weight 6130 HMC**

with counterweight **49t**

Fixed elevated and forward positioned port cab, cat walks, and starways, boom 52,3m, hoist rope and hook

**162t - 171t**



# **SENEBOGEN**® **6130 HMC**



**SENEBOGEN**®  
**PACE**  
**CRANES //**

\*Pace Cranes supplies quality equipment combined with professional service and personal attention\*

Technical specifications are subject to change without notice and without incurring responsibility for machines previously sold! The shown machines may have special equipment! Errors and misprints reserved.

**Leading through Innovation**

**5-7 Lorraine Street,  
Peakhurst, NSW, 2210, AUS  
Tel: +61 2 9533 5411  
Fax: +61 2 9533 5585**

**[www.pacecranes.com.au](http://www.pacecranes.com.au)**

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