

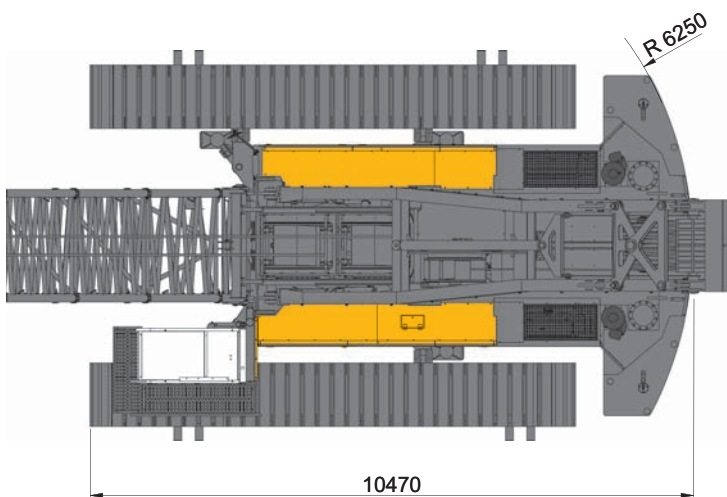
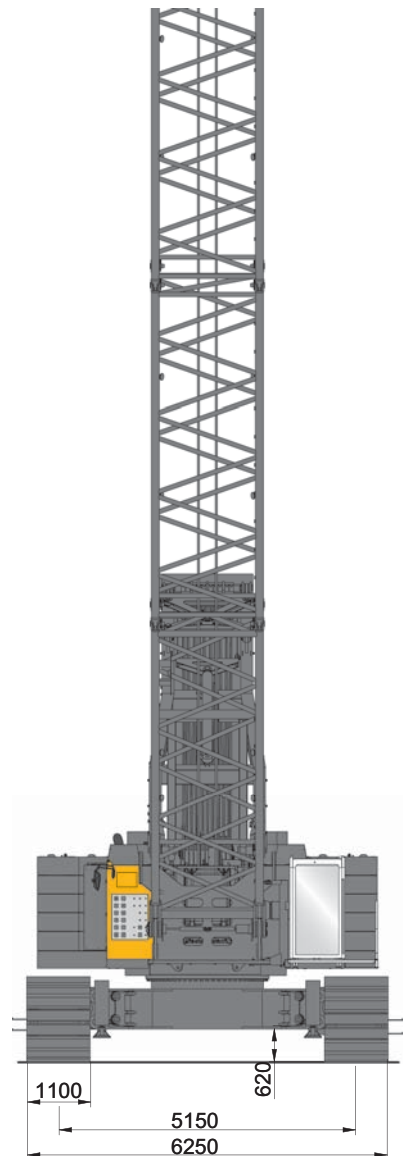
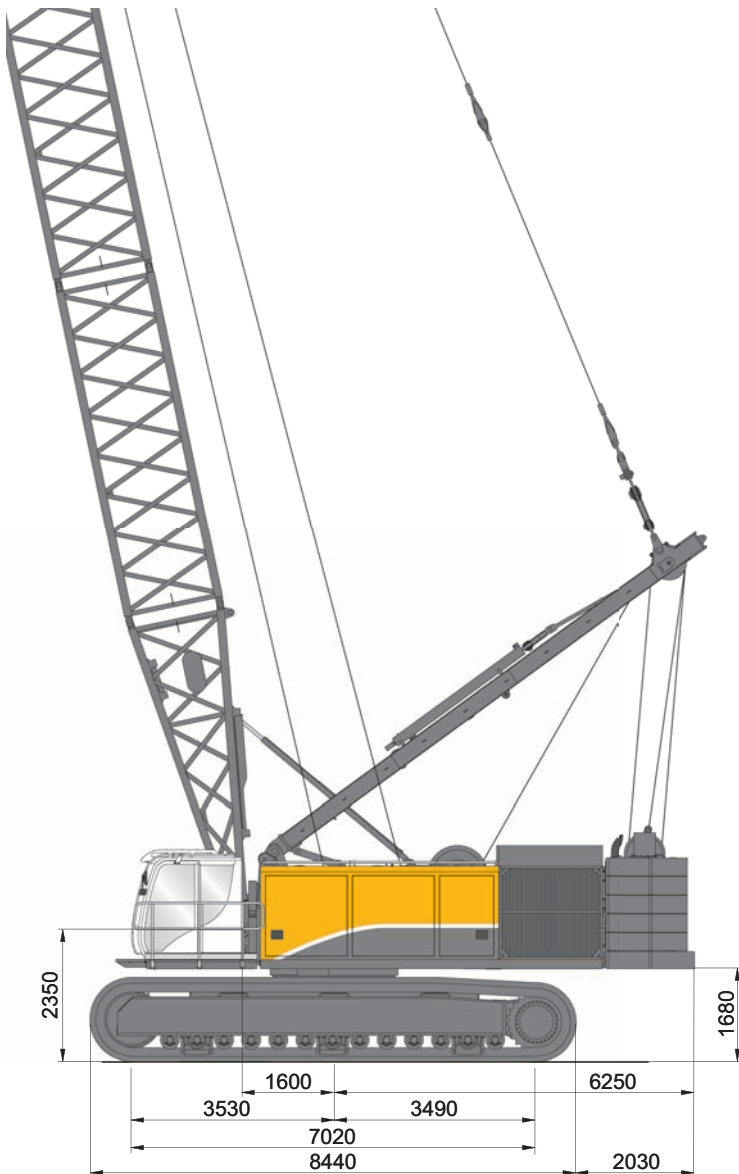
MC 128

Duty-cycle crane

MC Line



Dimensions basic machine



Operating weight

with HD-undercarriage,
1,100-mm triple-grouser track shoes,
uppercarriage with 2 winches and wire ropes,
counterweight 47.9 t,
18.4 m basic boom including A-frame, boom
hoist, roller block, hoist rope, boom foot,
boom section 6 m, boom head, pendants and
roller head, 200 t hook block

Total weight

approx. 172 t

Technical specifications

Engine

Caterpillar diesel engine	C 27
Output	709 kW
Engine RPM	1,800 rpm
Total volume two fuel tanks system	1,650 l
Exhaust Emission Standard:	EPA/CARB TIER 2

Optional:

CAT Dieselmotor	C 32
Output	839 kW
Engine RPM	1,800 rpm
Total volume two fuel tanks system	1,650 l
Exhaust Emission Standard:	EPA/CARB TIER 2

Hydraulic system

Modern, high-performance hydraulic system with energy-saving flow control on demand in multiple-circuit technology

Flow rates

Main pumps	3 x 436 l/min
Main pumps (optional)	2 x 565 l/min
Auxiliary pump	1 x 328 l/min
Swing pump (closed circuit)	1 x 407 l/min
Mooring pumps	2 x 127 l/min
Fan drive	2 x 101 l/min

Hydraulic working pressure	320 bar
Hydraulic tank capacity	1,000 l

- 3-hydraulic circuit system for foundation works
- Open hydraulic circuits for the winches (optional: closed circuit)
- Additional open hydraulic circuits for additional consumption
- Closed circuit for swing gear
- Additional gear pumps for cooler and controlling systems
- Electro-hydraulic load sensing control
- Load sensing control for additional functions
- Hydraulic oil cleaning by pressure and return pipe filter, leak oil filter, and press filter in pre control system
- Cooling system with high power reserve for working under permanent load even in difficult climate conditions

Swing gear

Slew ring driven by axial piston motor and planetary gear

- 2 swing gears
- Slewing and dynamic braking in closed circuit for a sensitive control
- Rotation speed is pre-adjustable in steps up to 3 rpm
- Hydraulically activated multiple disk hold brake
- Super size slewing roller-pin, teethed outside
- Low-maintenance slew gear

Load hoist assemblies

Hoisting winches, powered by controlled hydraulic adjustable motors via integrated planetary gears

Main winch 1	350 kN
Hauptwinde 2	350 kN
Rope capacity (3 layers, total)	144.2 m
Rope diameter	36 mm
Winch drum diameter	836 mm
Line speed	up to 65 m/min

- Depth control via incremental indicator/absolute sensor
- Load measurement and slack-rope protection
- Winding-up device for both winches

Boom hoist assembly

Adjustments via boom hoist winch

Line pull of boom hoist winch	approx. 170 kN
Rope diameter	24 mm

Uppercarriage

Modular, torsion-proof, precision welding construction, dimensioned for high permanent load, pre-equipped for additional applications

- Variable counterweight conception, easy mounting system for facile transportation
- Spot lights (4 No.) on superstructure
- Walkways in front and on side of the cab
- Counterweight lift cylinder can be used as support cylinder (patented)
- Excellent access for service works to all main components

Counterweight bearing plate	1 x 16.7 t
Add-on counterweight	2 x 2.6 t
Additional counterweight (optional)	2 x 7.7 t
Counterweight extendable	max. 63.5 t

Undercarriage

Rigid crawler undercarriage with wide car body and hydraulic lockable crawler assemblies

Type	UW 250 AC
Travel speed	approx. 1.0 km/h
Crawler type	B 9 HD
Track shoe width	1,100 mm
Track width	5,150 mm
Crawler width	6,250 mm
Crawler length	8,440 mm
Access ladder at the crawler	4 pcs.

Technical specifications

Lattice boom

High quality lattice boom made of thick walled boom tubes, designed for long-term dynamic loading in special foundation

- Basic boom is consisting of A-frame, hoist winches, hoist rope, boom foot
- Boom extensions and boom head
- Boom mounting/dismounting via winch operated A-frame
- Boom is designed for Bauer hose drum system

Control

- PLC control with electric-proportional pre-control for high adaptable operation
- Clearly arranged control board for operation functions at the right hand side
- B-TRONIC electronic monitoring-, control- and visualization system
 - Big sized, highly luminous and non-glare LCD color display screen
 - Clearly arranged screen display of the relevant machine and applications' parameters
 - Optimal positioning of the screen by individual adjustment system
- 2 joysticks at the operator seat for all functions or double-T stick for rope grab operation
- Two foot pedals for control of undercarriage

Operator's cab

- Comfort operator cab, FOPS certified
- Resiliently mounted, with exceptional sound suppression
- Excellent all-round visibility
- All weather design with safety glass
- Front windscreen with ventilation position stows under the roof
- Large-size skylight window (Bullet-proof glass)
- Wiper/washer system for front windscreen and skylight,
- Sun-blind
- Ergonomically designed comfortable seat
 - Weight and height adjustable
 - Inclination adjustable
 - Horizontal slidable
 - Headrest and adjustable armrests
- Infinitely variable cab heating system
- Air conditioning system
- First aid kit at operator's seat
- Radio with CD-player in operator's cabin
- Hydraulic tilttable the cabine to work effortlessly under large boom lengths
- The cabine can be retracted to fit in the transport dimensions

Optional equipment

- Free fall winches with oil cooled multi disc brake and clutch
- Foot pedals for control of freefall brake, pre-selectable secured or unsecured mode
- Rope pressure rollers for main winches
- Winch synchronization for main winches
- Electronic load moment limiter for liftcrane operation, user interface integrated in B-Tronic
- Different catheads for various applications
- Set of ropes for different applications
- Hydraulic and electronic equipment kits for various applications such as cutter system, two rope grabs and deep vibrators
- Quick connection system for the crawlers with hydraulic quick couplings, assembling tool and lifting gear
- Winch drum Nr 3, as auxiliary winch
- Automatic climate control
- Cab heater with timer
- Tempered safety glass panels in the front windscreen of operator's cab
- Electric fuel pump for diesel tank
- Helicopter warning light
- Bauer GCS (universal measurements with data recording for grabs)
- Central lubrication system
- Additional counterweight (2 x 7.7 t)
- Additional rotary drive for working with heavy loads
- Rear-view camera or winch control camera
- Access ladder to superstructure
- Walkways at undercarriage
- Stone guard cabin protection
- Special color on customer request
- Sunroof system for various types of applications
- Working at height system for boom walkway (patent pending)
- Hydraulic counterweight-safety device
- On top safety rails – uppercarriage
- Working at height package with rails
- Swing angle indicator
- Rope-fix point with overload protection

Various multi-purpose applications

Grab unit for 2-rope grab operation with mechanical grabs with pounder weights for dynamic compaction in automatic mode (BDC)

Lifting crane

Base carrier for hydraulic diaphragm wall grab, together with hydraulic hose handling system and grab turning device

for cased bored piles in combination with a grab and a casing oscillator

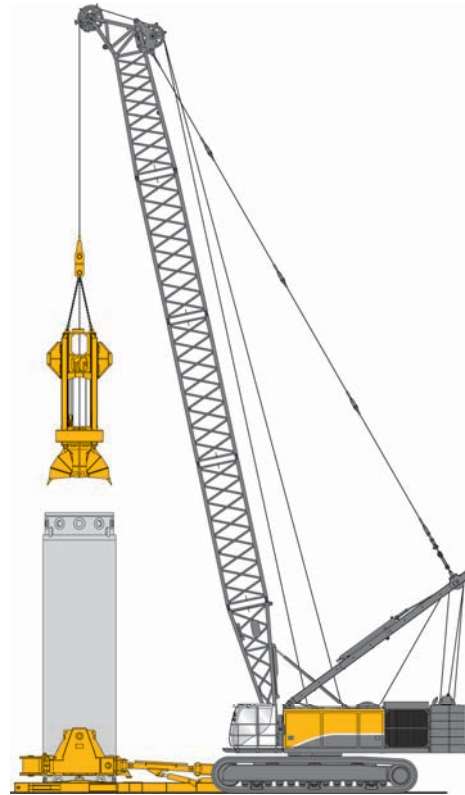
for Bauer deep vibrators TR 75 which are hydraulically supplied by the power station of the crane

for various alternatives of vibratory pile drivers with additional power pack mounted at rear

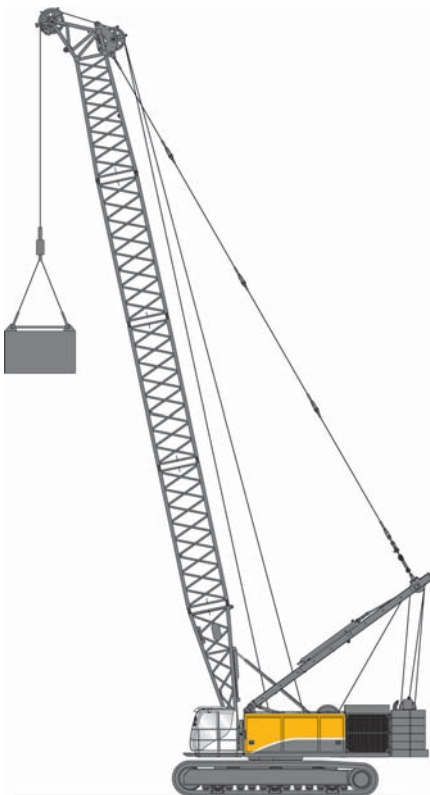
for Bauer cutters with different types of hose handling systems

for Bauer Flydrill with hydraulic on board supply

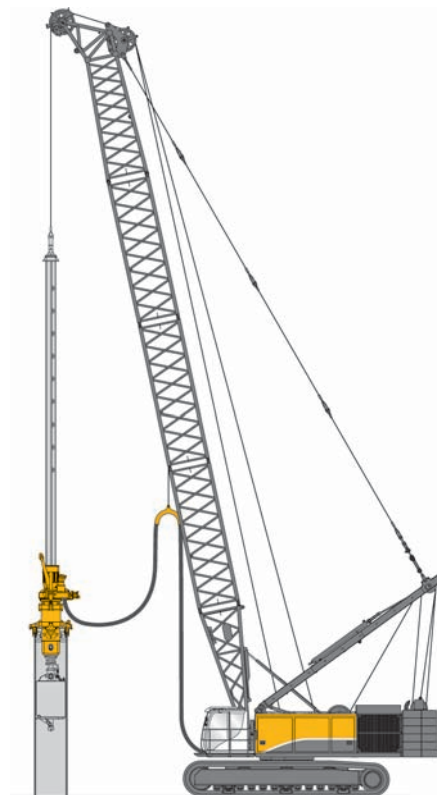
The above processes may require partial retrofit kits as well as additional optional equipment



Bore pile grab with casing oscillator



Bauer Dynamic Compaction (BDC)



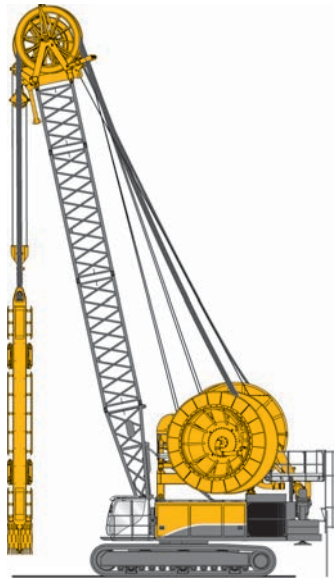
Flydrill

Equipment with Trench cutter BC



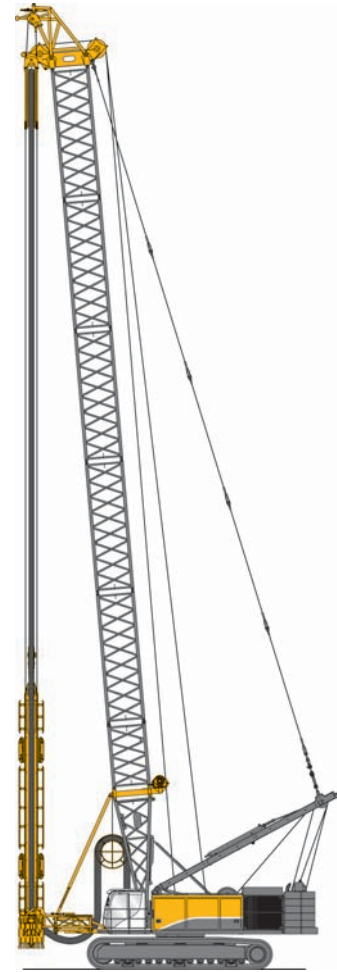
Hose drum system HDS 100

Cutting depth, max. 100 m
Cutter weight 50 t



Hose drum system HDS 150

Cutting depth, max. 150 m
Cutter weight 50 t



Hose tensioning system HTS 70

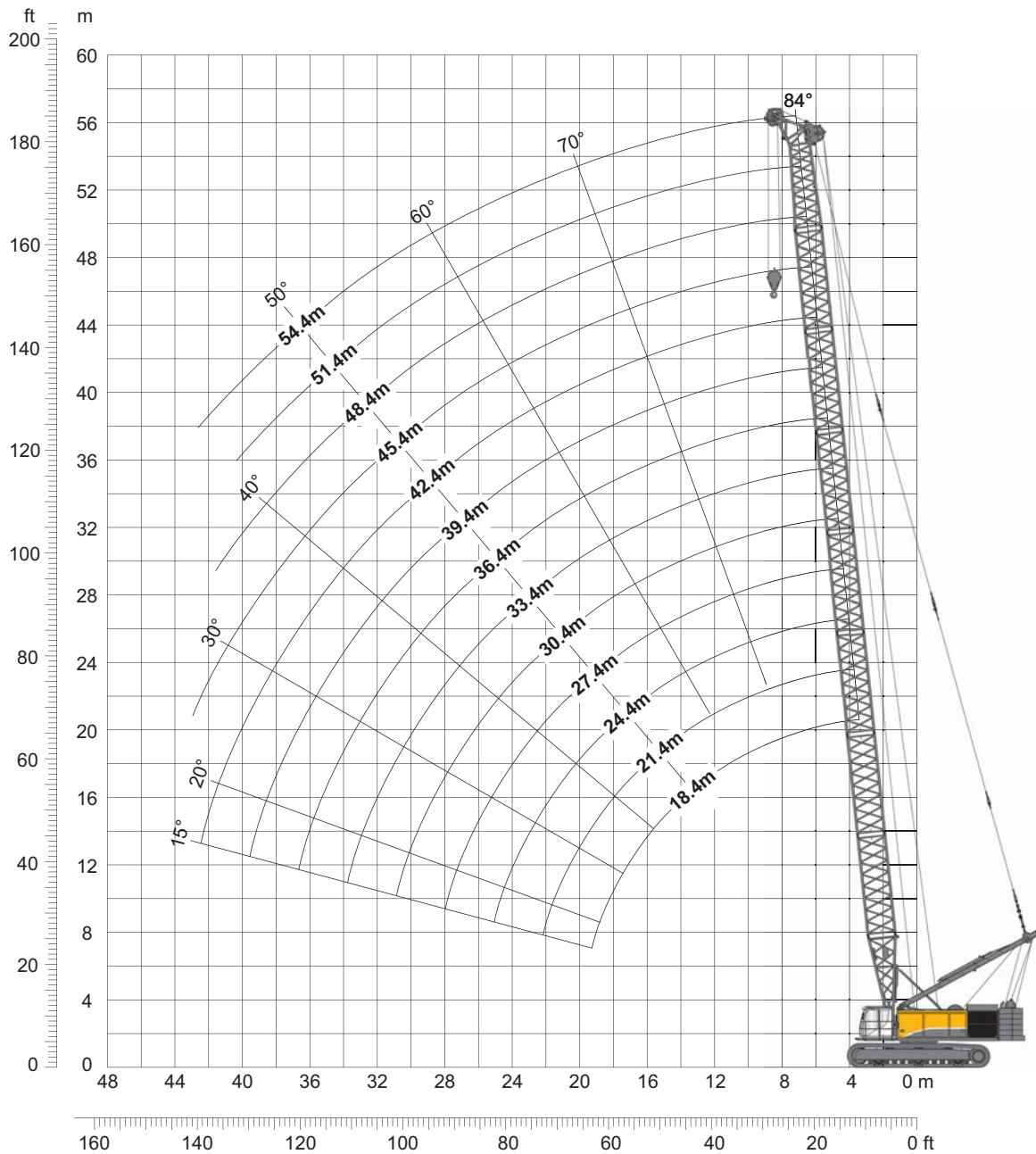
Cutting depth, max. 70 m
Cutter weight 50 t

Counterweight is depending on equipment

Notes:

1. The rated loads are valid for a planar, firm plane.
2. The rated loads are valid for 360°.
3. The rated loads are valid for maximum crawler width.
4. A maximum wind speed of 20 m/s is considered.
5. A rotation momentum for a rotation speed of 1 rpm of the upper carriage is considered.
6. When the machine is not in use it must stand on planar, firm ground and the cutter has to be seated on the ground.
7. Total cutter weight includes weight of cutter, guide frame and hook block.
8. For calculating the stability angle the center of gravity for the cutter is assumed at a max. height of 4.5 m.
9. The values are for information only. For effective values please refer to the instruction manual.

Liftcrane operation



Boom configurations

	Length (m)	Boom total length (m)														
		12.4	15.4	18.4	21.4	24.4	27.4	30.4	33.4	36.4	39.4	42.4	45.4	48.4	51.4	54.4
Boom foot section	5.6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	3.0		1		1		1		1		1		1		1	
Boom section	6.0			1	1	2	2	3	3	4	4	5	5	6	6	7
Upper boom section	6.8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Liftcrane operation – Lift chart (boom range 84° - 15°)

Boom length of 18.4 up to 54.4 m, 350 kN winches, loads in metric tons

Radius (m)	Boom length (m)										
	18.4	21.4	24.4	27.4	30.4	33.4	36.4	39.4	45.4	51.4	54.4
4.1	200.0										
4.3		165.7									
4.6			166.2								
4.8				169.6							
5.0	155.5	155.8	157.2	159.9	159.6						
5.2						146.8					
5.4							134.1				
5.6								115.1			
6.0	139.0		134.4	128.5	130.5	125.1	120.0	111.7	91.9		
6.4										65.8	
6.6											46.5
7.0	113.6	140.6	111.3	107.0	109.3	105.2	101.3	97.6	86.0	62.9	45.4
8.0	95.7	115.8	94.6	91.2	93.6	90.4	87.3	84.3	80.2	58.1	42.5
9.0	81.3	98.0	82.0	79.2	81.6	78.9	76.4	73.9	74.5	53.4	39.6
10.0	69.1	84.7	72.1	69.8	72.0	69.7	67.6	65.4	69	49.0	36.8
11.0	59.8	73.5	63.5	62.1	64.3	62.3	60.4	58.5	61.9	44.9	34.1
12.0	52.5	63.6	55.8	55.5	57.8	56.1	54.4	52.7	55.9	41.4	31.5
13.0	46.6	55.9	49.5	49.2	52.2	50.8	49.4	47.8	50.8	38.4	29.1
14.0	41.7	49.6	44.3	44.0	46.7	46.3	45.0	43.6	46.4	35.8	26.8
15.0	37.6	44.5	40.0	39.6	42.1	41.7	41.2	39.9	42.6	33.7	24.8
16.0	34.1	40.1	36.3	35.9	38.2	37.8	37.4	36.7	39.2	31.8	22.9
17.0	31.0	36.4	33.1	32.7	34.8	34.4	34.0	33.6	36.2	30.0	21.2
18.0	28.3	33.2	30.3	30.0	31.9	31.4	31.1	30.6	33.5	28.5	19.6
19.0	25.9	30.4	27.8	27.5	29.3	28.9	28.5	28.0	31.1	27.0	18.2
20.0		27.9	25.6	25.3	27.0	26.6	26.2	25.7	28.7	25.5	16.9
21.0		25.7	23.7	23.4	24.9	24.5	24.2	23.7	26.4	24.0	15.6
22.0		23.7	21.9	21.6	23.1	22.7	22.3	21.9	24.4	22.5	14.4
23.0		21.9	20.3	20.1	21.4	21.0	20.7	20.2	22.6	21.0	13.2
24.0			18.8	18.6	19.9	19.5	19.2	18.7	20.9	19.8	12.1
25.0			17.4	17.3	18.6	18.1	17.8	17.3	19.4	18.4	11.1
26.0				16.1	17.3	16.9	16.5	16.1	18.0	17.0	10.5
27.0				14.9	16.1	15.7	15.4	14.9	16.7	15.8	10.2
28.0				13.8	15.0	14.6	14.3	13.8	15.5	14.6	10.0
29.0					14.0	13.6	13.3	12.8	14.5	13.5	9.8
30.0					13.0	12.7	12.4	11.9	13.4	12.5	9.6
31.0					12.1	11.8	11.5	11.1	12.5	11.5	9.4
32.0						11.0	10.7	10.3	11.6	10.7	9.2
33.0						10.2	9.9	9.5	10.8	9.8	9.0
34.0						9.4	9.2	8.8	10.0	9.1	8.6
35.0							8.5	8.1	9.3	8.3	7.9
36.0							7.9	7.5	8.6	7.7	7.2
37.0							7.2	6.9	8.0	7.0	6.6
38.0								6.3	7.4	6.4	5.9
39.0								5.7	6.8	5.8	5.4
40.0								5.2	6.2	5.3	4.8
41.0									5.7	4.8	4.3
42.0									5.2	4.3	3.8
43.0									4.7	3.8	3.3
44.0									4.2	3.3	2.8
45.0									3.7	2.9	1.8
46.0										2.5	
47.0										2.1	
48.0										1.7	
49.0										1.3	
	42.7		47.9			53.1				63.5	
	Counter weight (to)										

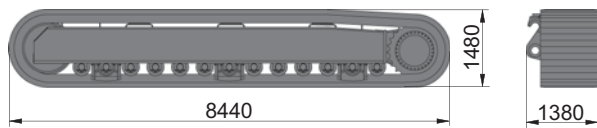
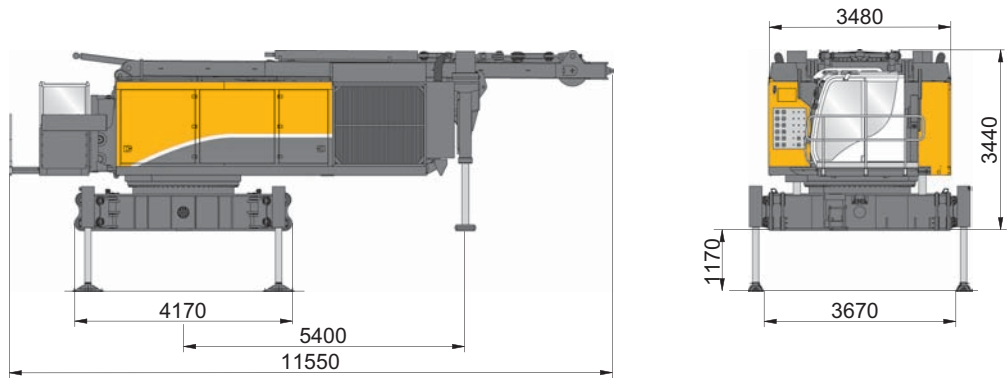
Notes:

- The rated loads are valid for a planar, firm plane.
- The rated loads are determined acc, to EN 13000.
- Weight of lifting accessories (rope, shackles etc,) has to be deducted from the rated load.
- Radius is stated from centre of swing gear.
- Values are valid for 360°.
- Steel structures are designed acc, to EN 13000.
- When travelling with load on uneven, soft or inclined ground, the rated load has to be reduced.
- The values are for information only. For effective values please refer to the instruction manual.

Transport data

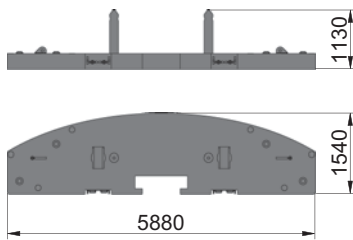
Base machine

Base machine
G = 63.5 t

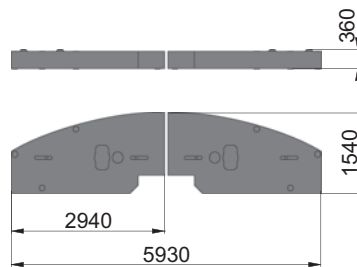


Chain carrier
G = 2 x 23.0 t

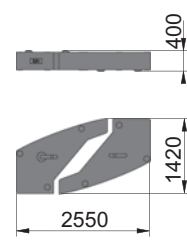
Counterweights



Counterweight bearing plate
G = 16.7 t

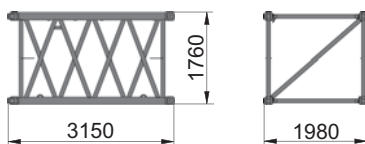


Additional counterweight
G = 2 x 7.7 t

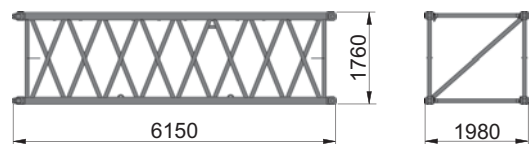


Add-on counterweight
G = 2 x 2.6 t

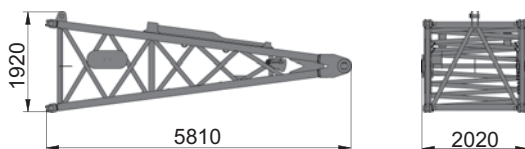
Boom components



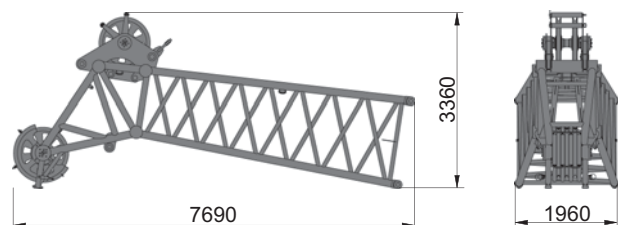
Boom section 3 m
G = 1.55 t



Boom section 6 m
G = 2.5 t



Boom foot section
G = 3.5 t



Upper boom section
G = 5.0 t

Weight data are approximate



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