

Supplement

DHG-V # 1150 (Grab-System)



Translation of the original

V01_en_06.2016



2 Product description

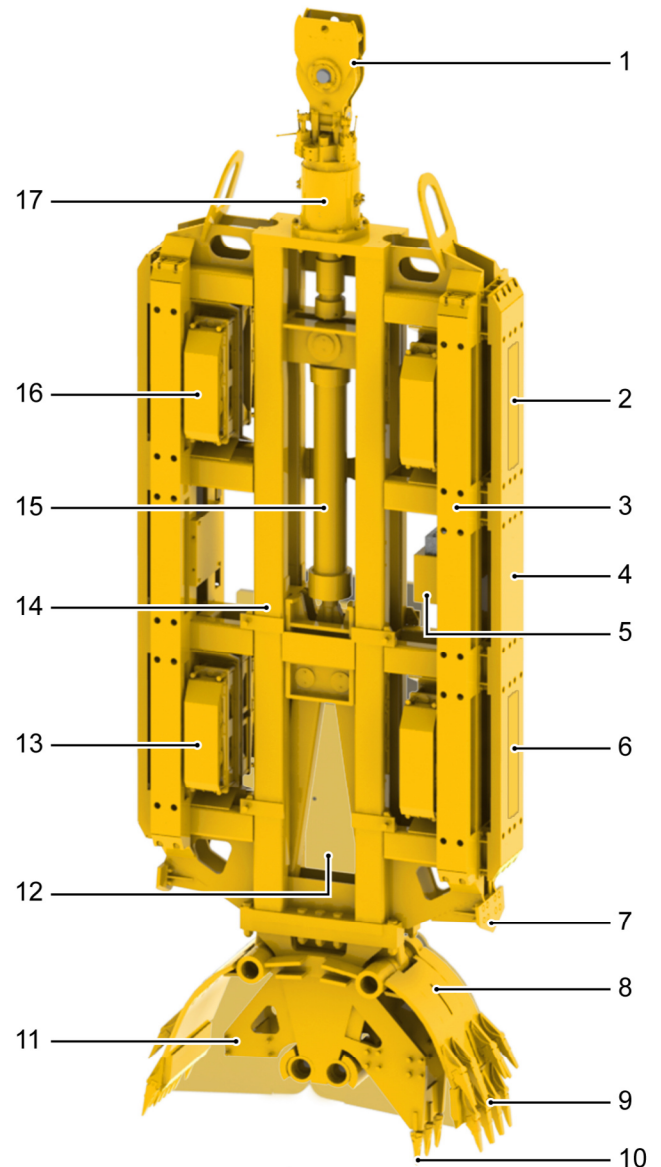


2.3 Equipment overview

2.3.1 Process equipment

Grab with pulley block

- 1 Attachment with pulley block (optional)
- 2 Steering flap, side, top (optional)
- 3 Extensions for base frame, working width (optional)
- 4 Extensions for base frame, working length (optional)
- 5 Inclinator (optional)
- 6 Steering flap, side, bottom (optional)
- 7 Post-cutting plates
- 7 Stop end removing aid (optional)
- 8 Shovel set
- 9 Grab teeth
- 10 Chisel (optional)
- 11 Scraper
- 12 Additional weight (optional)
- 13 Steering flap, bottom (optional)
- 14 Base frame
- 15 Hydraulic cylinder
- 16 Steering flap, top (optional)
- 17 Rotary device (optional)



2 Product description



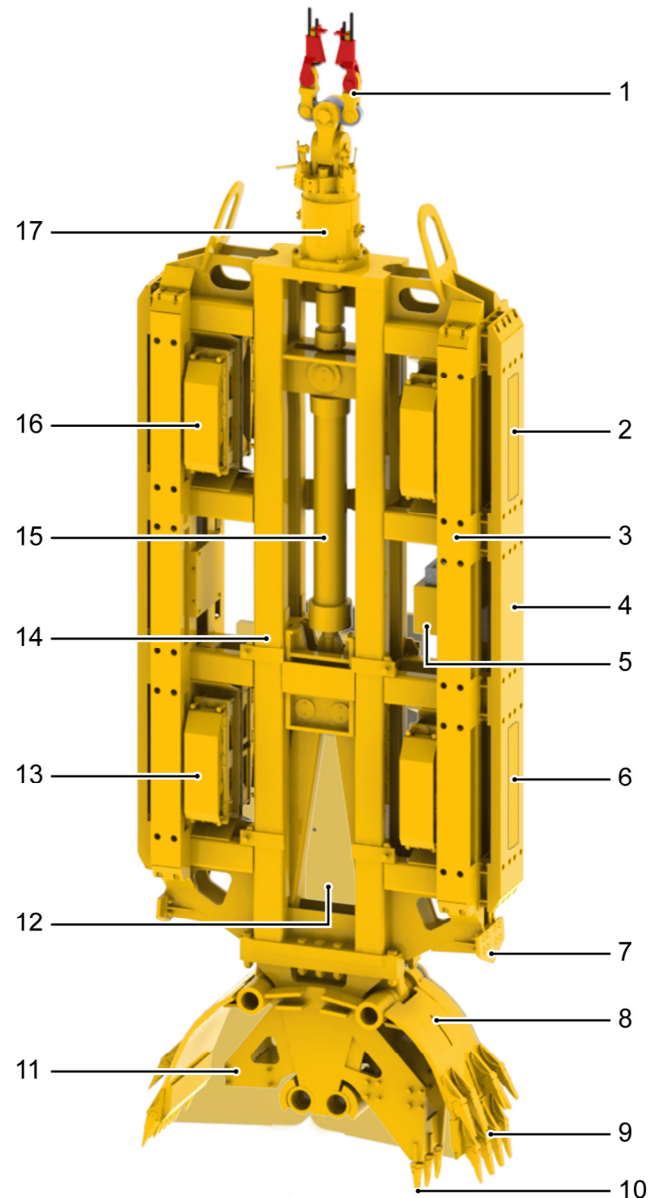
Components	Function
Stop end removing aid (optional)	End stop for insertion of the scaling board in the trench.
Attachment with pulley block (optional)	Connects the grab ropes to the grab.
Scraper	Provide support when emptying the shovel set.
Rotary device (optional)	Enables rotation of the grab.
Grab teeth	Loosen and break up the surface.
Base frame	Used to hold grab components.
Hydraulic cylinder	Transfers the power to the shovel set.
Inclinometer (optional)	Measurement electronics for inclination detection.
Chisel (optional)	Supports loosening of the surface.
Post-cutting plates	Cut the diaphragm wall at the positions not reached by the grab teeth.
Steering flaps (optional)	Guide and control the grab in the trench.
Shovel set	Loosen and break up the surface.
Extensions for base frame, working width (optional)	Guide the grab in the trench and widen the base frame.
Extensions for base frame, working length (optional)	Guide the grab in the trench and widen the base frame.
Additional weights (optional)	Increase the total weight of the grab.

2 Product description



Grab with equalizer

- 1 Attachment with equalizer
- 2 Steering flap, side, top (optional)
- 3 Extensions for base frame, working width (optional)
- 4 Extensions for base frame, working length (optional)
- 5 Inclinometer (optional)
- 6 Steering flap, side, bottom (optional)
- 7 Post-cutting plates
- 7 Stop end removing aid (optional)
- 8 Shovel set
- 9 Grab teeth
- 10 Chisel (optional)
- 11 Scraper
- 12 Additional weight (optional)
- 13 Steering flap, bottom (optional)
- 14 Base frame
- 15 Hydraulic cylinder
- 16 Steering flap, top (optional)
- 17 Rotary device (optional)



2 Product description



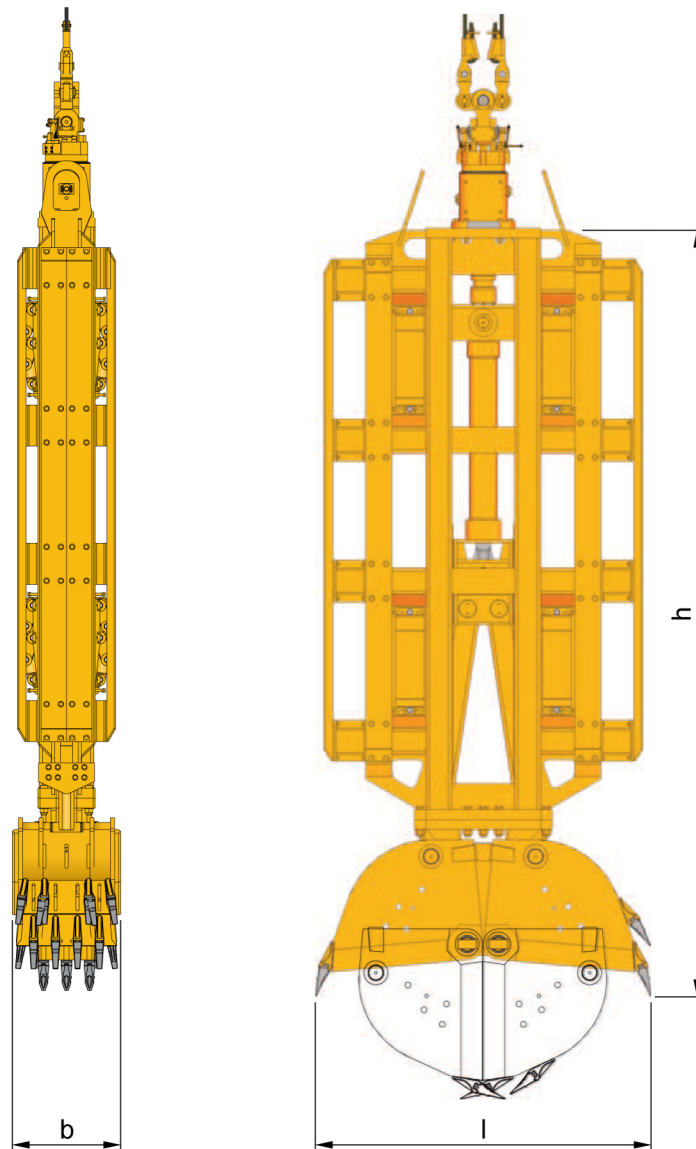
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Extensions for base frame, working length (optional)	Guide the grab in the trench and widen the base frame.
Additional weights (optional)	Increase the total weight of the grab.

2 Product description

2.4 Specifications

2.4.1 Dimensions

Grab with base frame 2400 mm



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- The minimum weight of the grab is derived from the weights of the base body with shovel, the 120 t hydraulic cylinder and the extensions (see table: Dimensions and weights).
- The maximum weight of the grab is derived from the minimum weight of the grab and the selection of additional equipment (see table: Dimensions and weights of additional equipment).

Table: Dimensions and weights:

Grab - base frame 2400 mm			
Working length (l in mm)	Working width (w in mm)	Working height (h in mm)	Min. weight (t)
2400	600	7210	14.6
2400	800	7210	15.5
2400	1000	7210	16.5
2400	1200	7210	17.9
2400	1500	7210	19.1
2800	600	7360	16.6
2800	800	7360	17.5
2800	1000	7360	18.5
2800	1200	7360	19.9
2800	1500	7360	21.0
3200	600	7380	17.3
3200	800	7380	18.3
3200	1000	7380	19.3
3200	1200	7380	20.7
3200	1500	7380	22.0

Table: Dimensions and weights of additional equipment:

Additional equipment	Weight (t)
Steering flaps (1 pair)	0.43
Rotary device	1.4
Attachment with pulley block	0.56
Attachment with equalizer	0.66
Additional weight 1	1
Additional weight 2	3
Additional weight 3	5
120 t hydraulic cylinder	0.87
180 t hydraulic cylinder	1.4

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2.4.2 Equipment specification

Process equipment

Grab	
Designation	DHG/V
Serial number	1150
Working length [mm]	2400 / 2800
Working width [mm]	600
Total weight of grab [t]	15 - 35
Cylinder force [kN]	800 - 1800
Additional weights [t]	1 / 3 / 5
Post-cutting plate (optional)	fixed
Stop end removing aid (optional)	foldable

Shovel cleaning (optional)	
Designation	DHG/V
Chisel with scraper	screwed
Cleaner with scraper	welded

2 Product description



Steering flaps (optional)		
Variant		Code
Grab without steering flaps		-
Grab with 4 steering flaps		
Grab with 6 steering flaps		
Grab with 8 steering flaps		
Grab with 12 steering flaps		



Grab

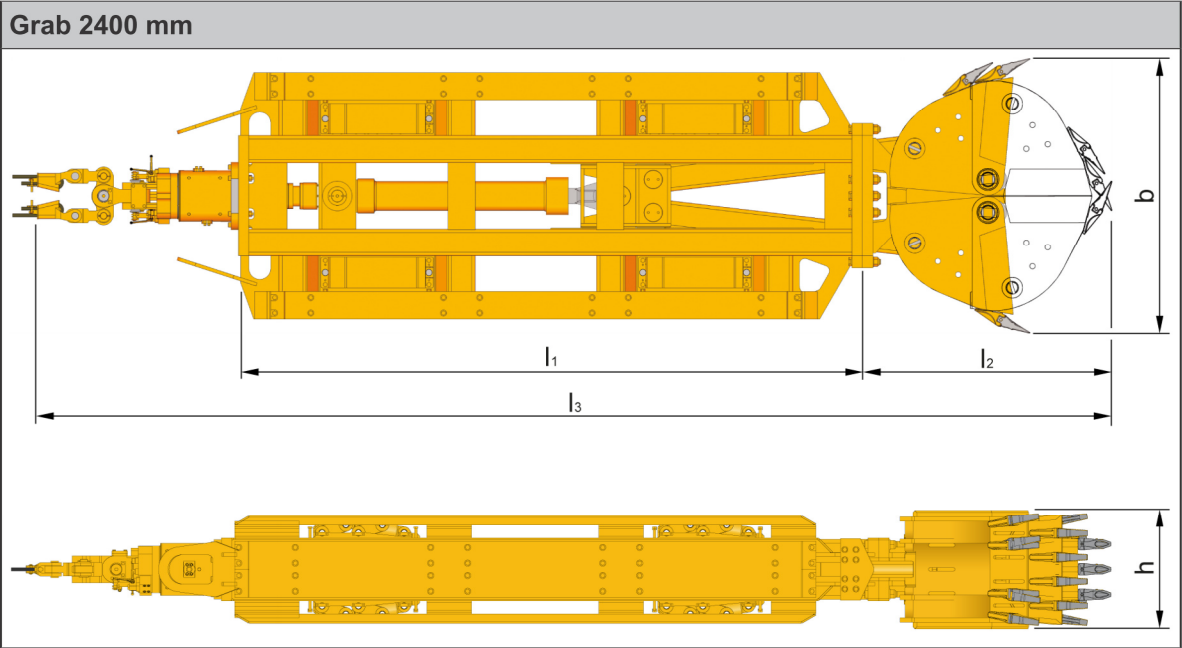


Table: Dimensions and weights

Grab 2400 mm					
b (mm)	h (mm)	l1 (mm)	l2 (mm)	l3 (mm)	Weight
2400	600	4780	2430	9755	16.66
2400	800				17.56
2400	1000				18.56
2400	1200				19.96
2400	1500				21.16
2800	600	5690	2490	9965	18.66
2800	800	5690	2490	10011	19.56
2800	1000	5690	2490	10011	20.56
2800	1200	5690	2490	10011	21.96
2800	1500	5690	2490	10011	23.06
3200	600	5710	2670	12836	19.36
3200	800				20.36
3200	1000				21.36
3200	1200				22.76
3200	1500				24.06

6 Transport

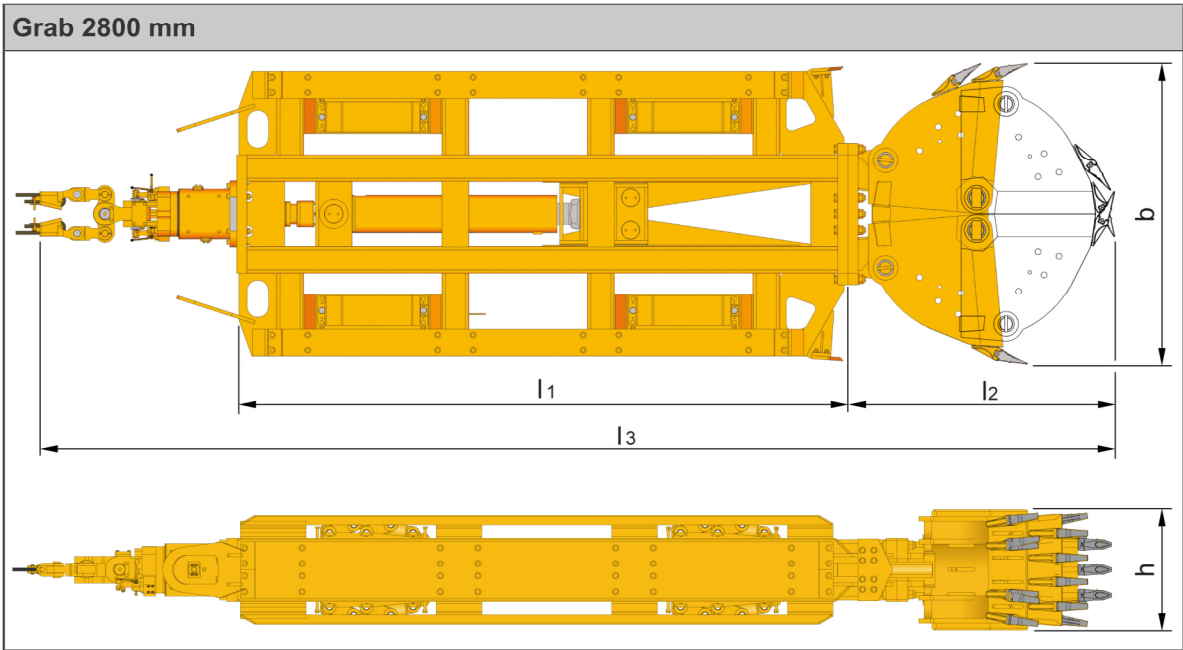


Table: Dimensions and weights

Grab 2800 mm					
b (mm)	h (mm)	l1 (mm)	l2 (mm)	l3 (mm)	Weight
2800	600	5690	2490	9965	17.56
2800	800	5690	2490	10011	18.46
2800	1000	5690	2490	10011	19.46
2800	1200	5690	2490	10011	20.86
2800	1500	5690	2490	10011	22.06
3200	600	5710	2670	12836	19.56
3200	800				20.56
3200	1000				21.56
3200	1200				22.96
3200	1500				24.26

6 Transport

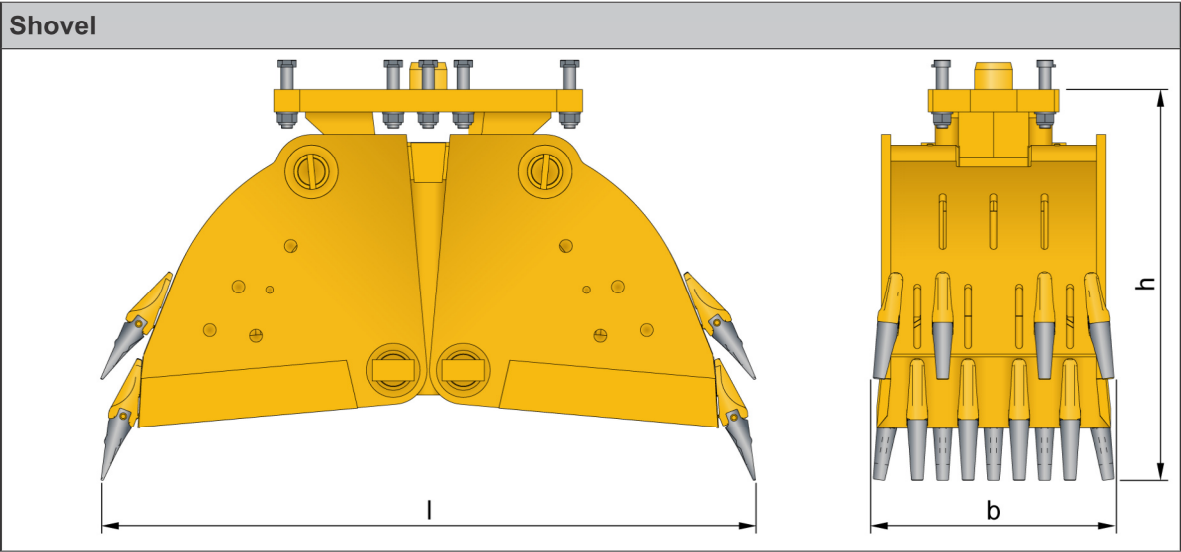
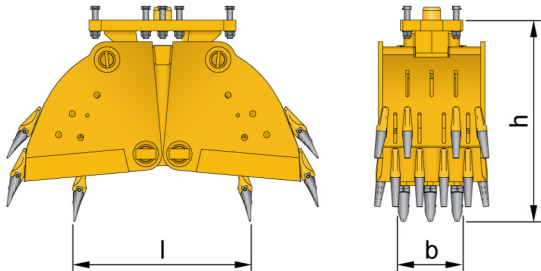


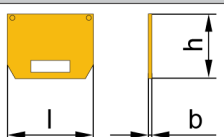
Table: Dimensions and weights

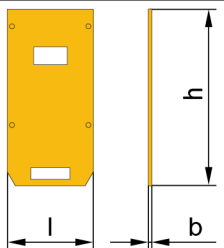
l (mm)	b (mm)	h (mm)	Weight (t)
2400	600		
2400	800		
2400	1000		
2400	1200		
2400	1500		
2800	600	1671	5.0
2800	800	1671	5.0
2800	1000	1671	5.0
2800	1200	1671	5.0
2800	1500		
3200	600		
3200	800		
3200	1000		
3200	1200		
3200	1500		

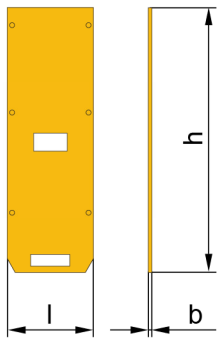
6 Transport



Chisel				
Dimensions [mm]:	Length	(l)	1644	
	Width	(b)	500	
	Height	(h)	1880	
			0.5	
Weight [t]: (total)			1	
Quantity [pcs.]:				

Additional weight 1 t				
Dimensions [mm]:	Length	(l)	1320	
	Width	(b)	60	
	Height	(h)	1000	
			0.5	
Weight [t]:			2	
Quantity [pcs.]:				

Additional weight 3 t				
Dimensions [mm]:	Length	(l)	1320	
	Width	(b)	60	
	Height	(h)	2745	
			1.5	
Weight [t]:			2	
Quantity [pcs.]:				

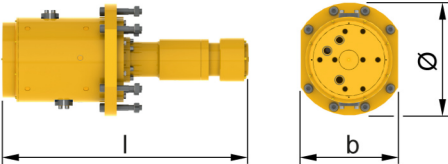
Additional weight 5 t				
Dimensions [mm]:	Length	(l)	1320	
	Width	(b)	60	
	Height	(h)		
			2.5	
Weight [t]:			2	
Quantity [pcs.]:				

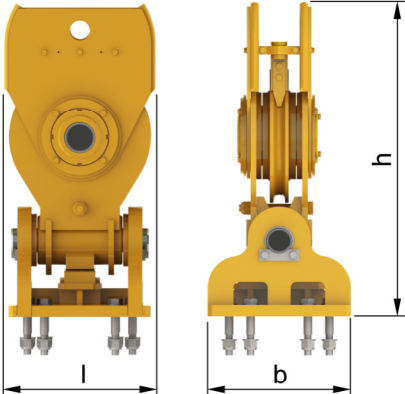
6 Transport



Steering flaps			
Dimensions [mm]:	Length	(l)	1025
	Width	(b)	280
	Height	(h)	232
Weight [t]:		0.22	
Quantity [pcs.]:		1	

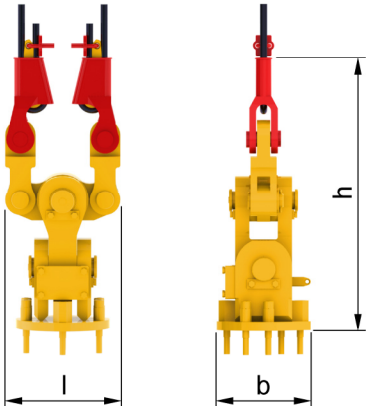
The image shows two views of a yellow steering flap. The top view is a side profile showing the flap's height (h) and its internal structure with three rollers. The bottom view is a top-down perspective showing the length (l) and width (b) of the flap. The flap is yellow with grey rollers and mounting hardware.

Rotary device				
Dimensions [mm]:	Diameter	(ø)	610	
	Width	(b)	530	
	Length	(l)	1332	
Weight [t]:			1.4	
<i>with transport frame</i>				
Quantity [pcs.]:			1	

Pulley block				
Dimensions [mm]:	Length	(l)	566	
	Width	(b)	441	
	Height	(h)	1220	
Weight [t]:			0.56	
Quantity [pcs.]:			1	

6 Transport



Equalizer with attachment				
Dimensions [mm]:	Length	(l)	620	
	Width	(b)	540	
	Height	(h)	1285	
Weight [t]:			0.66	
Quantity [pcs.]:			1	

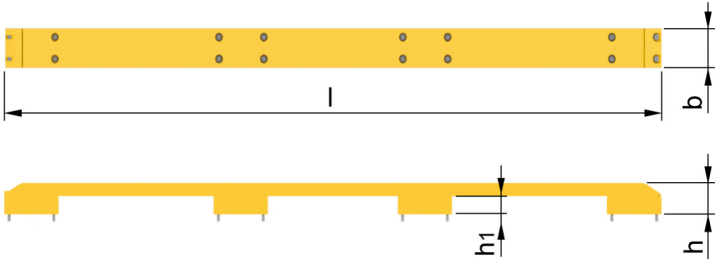
Extension


Table: Dimensions and weights

Extension					
Description	l (mm)	b (mm)	h (mm)	h1 (mm)	Weight (t)
Working width 800 mm	4835	250	100	-	0.275
Working width 1000 mm	4835	250	200	100	0.410
Working width 1000 mm (heavy version)	4835	250	200	100	0.528
Working width 1200 mm	4835	250	300	200	0.469
Working width 1200 mm (heavy version)	4835	250	300	200	0.751

6.3 Loading - lifting

NOTICE Risk of causing damage to the equipment or the components!

Incorrect attachment of the lifting device and lifting gear can result in damage to the equipment and/or components.

- △ Only use suitable lifting gear with adequate load-bearing capacity.
- △ Only attach the lifting device to the lifting points provided for that purpose.

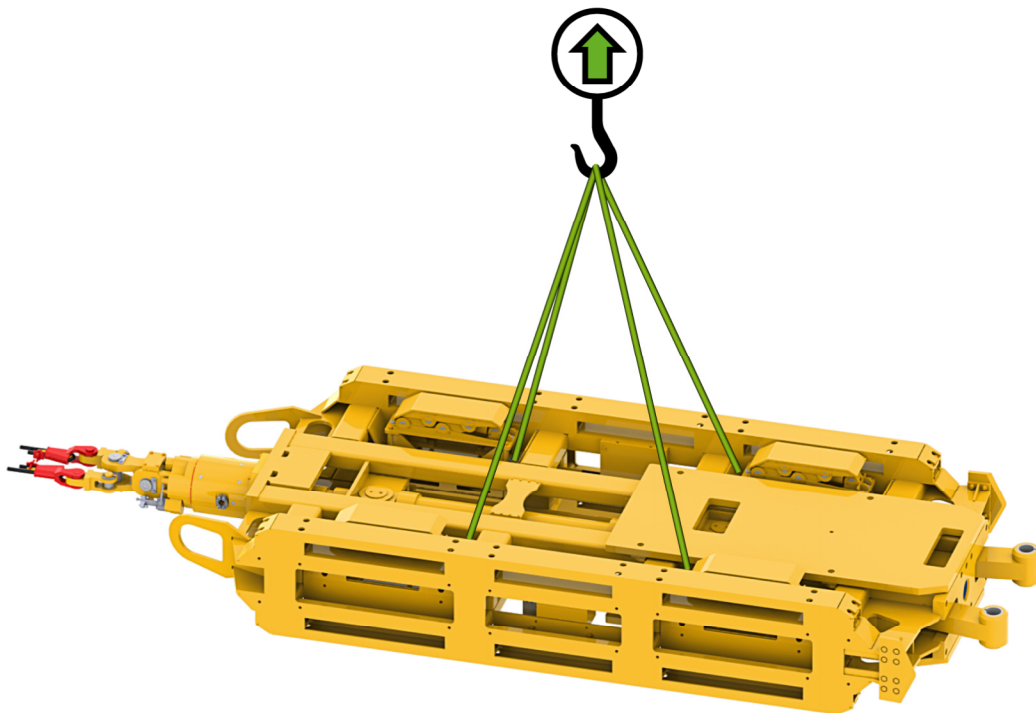


In the case of components without special devices for the lifting points, the individual lifting positions can be derived from the relevant documentation.

6.3.1 Process equipment

Lift grab

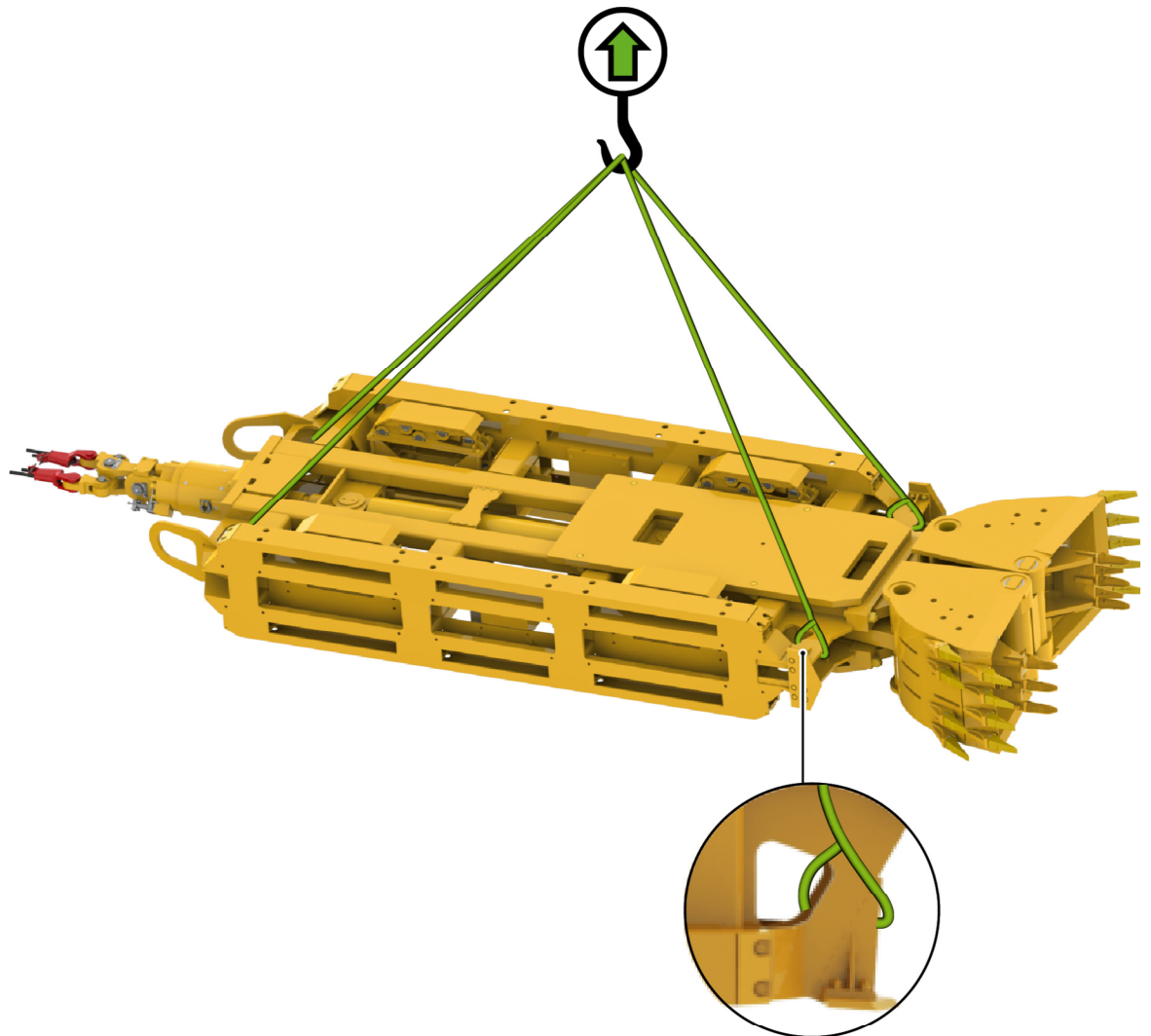
Variant 1



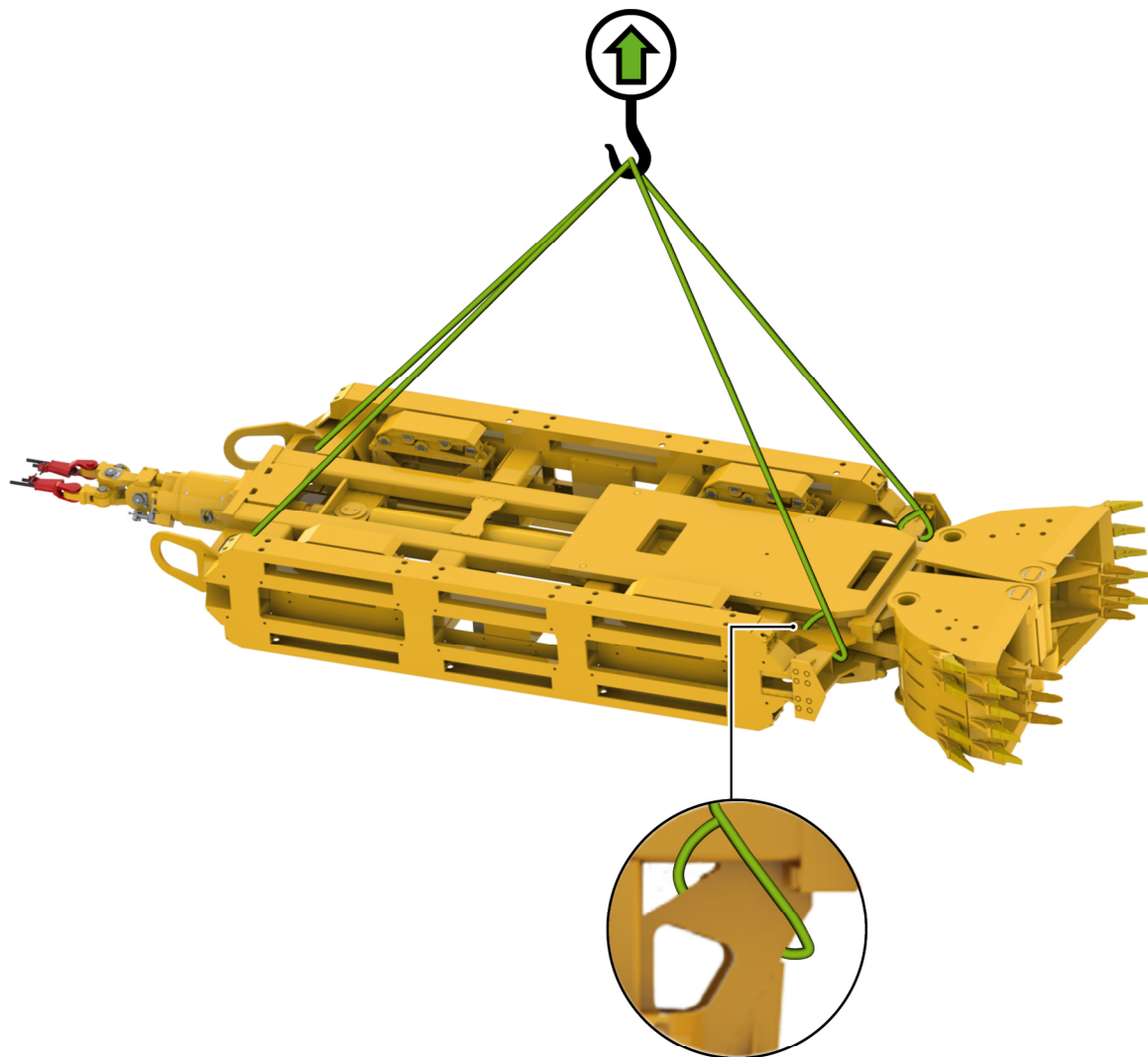
6 Transport



Variant 2



Variant 3



6.4 Loading - Tying down

NOTICE Risk of causing damage to the equipment or the components!

During transport, incorrect tying down can lead to damage of the equipment and/or components.

- △ Cover and secure any sharp edges, points, and cutting edges.
- △ Use a lifting device which is adequately dimensioned.
- △ Only attach the lifting device to the tying points provided for that purpose.

6.4.1 Process equipment

Grab

NOTICE Risk of causing damage to the grab!

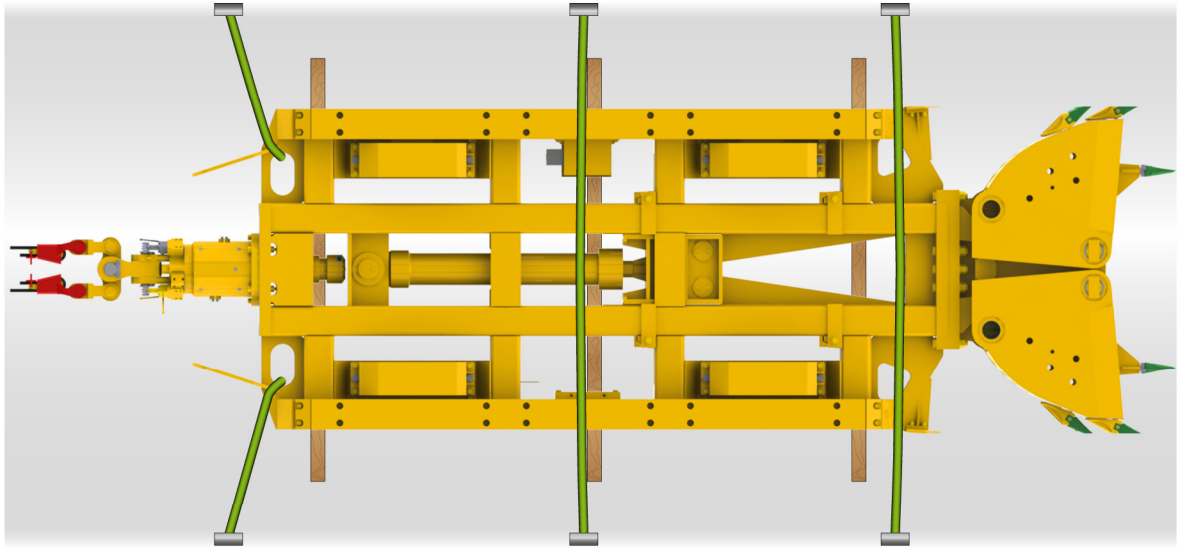
The grab can be damaged if it is not tied down properly.

- △ Only tie the grab down at the support points (wooden supports).



Use an adequate number of suitable wooden supports to secure the grab.

6 Transport



- Place the grab on the depositing surface of the transporting vehicle on a suitable support.
- Attach suitable lifting devices to the grab and tie it down properly.
- ✓ The grab has been properly tied down on the transporting vehicle.