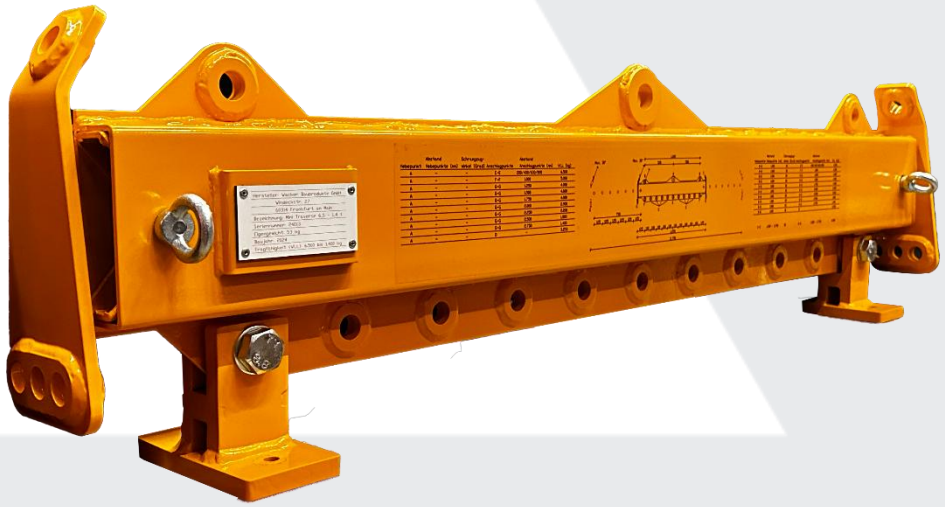
WACKER
Bauprodukte GmbH

Operating instructions

(translation of the DE-original version)

These operating instructions must be read and understood completely before starting work. It must be always available at the place of use.



Content

1. Description of the product

The mini lifting beam 6.5-1.4 t (item no. TR-6.5-1.4 t) from Wacker Bauprodukte is used as a load handling device for attaching loads where the attachment points need to be distributed over a certain length and width.

The spreader beam can be used as a spreader beam or as a spreader. The spreader beam is adjustable in length. Depending on whether it is used as a spreader beam or as a spreader, various lifting eyes are available on the top.

Various lifting eyes are also available on the underside.

Article number	WLL [kg]	Length [mm]	Own weight	Lifting points [-]	Stop points [-]
TR_6,5-1,4t	6,500 – 1,400	1,250 – 2,750 mm	53 kg	1/2	1/2/4

Table 1: Overview

The surface is sandblasted (Sa 2.5) and powder-coated in the colour RAL 1007 (daffodil yellow).

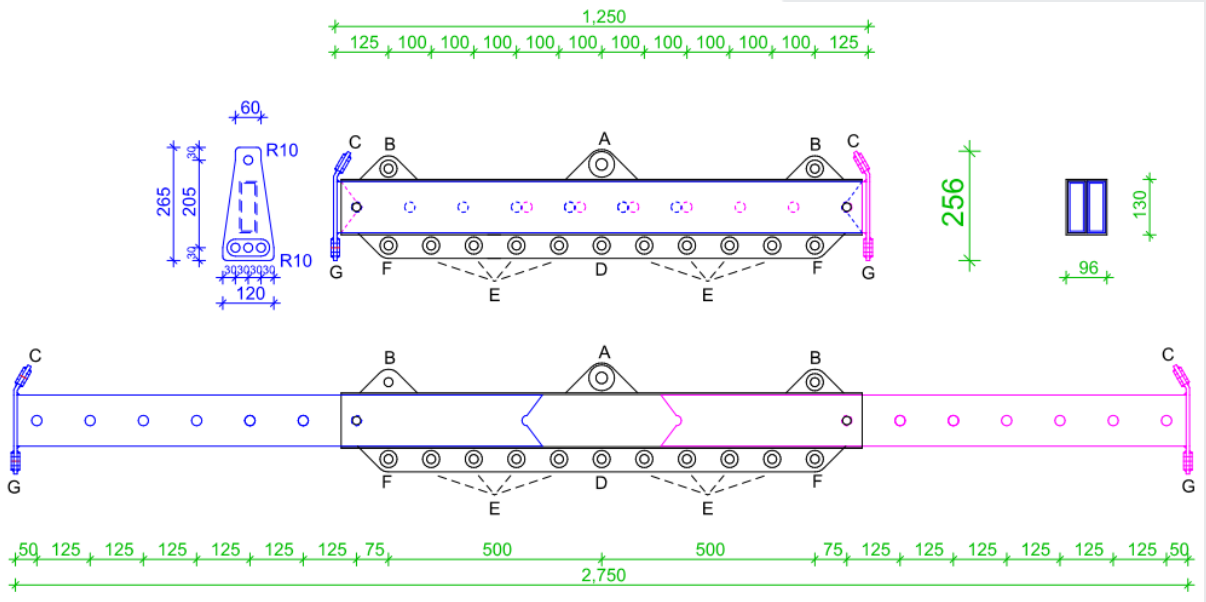
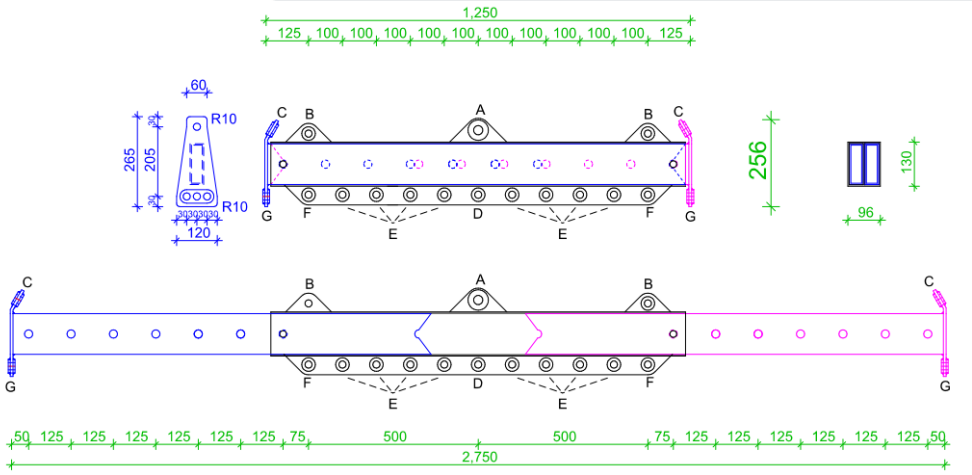


Figure 1: Mini lifting beam, adjustable in length from 1.25 - 2.75 m, various lifting and attachment points

The spreader beam complies with the requirements of Directive 2006/42/EC (Machinery Directive) and EN 13155 and therefore bears the CE mark. The corresponding EC Declaration of Conformity (CE Declaration) is available.

2. Load capacities

Depending on the use of the lifting and lifting eyes and the set length, different permissible load capacities (WLL) result.



Lifting point(s)	Distance lifting points [mm]	Lifting angle [°]	Attachment point(s)	Distance attachment points [mm]	WLL [kg]
A	-	-	E-E	200/400/600/800	6.500
A	-	-	F-F	1.000	5.000
A	-	-	G-G	1.250	4.000
A	-	-	G-G	1.500	4.000
A	-	-	G-G	1.750	4.000
A	-	-	G-G	2.000	2.900
A	-	-	G-G	2.250	2.200
A	-	-	G-G	2.500	1.800
A	-	-	G-G	2.750	1.400
A	-		D	0	3.250
B-B	1.000	30°	D	0	3.250
B-B	1.000	30°	E-E	200/400/600/800	6.500
B-B	1.000	30°	F-F	1.000	6.500
B-B	1.000	30°	G-G	1.250	6.500
B-B	1.000	30°	G-G	1.500	6.500
B-B	1.000	30°	G-G	1.750	4.300
B-B	1.000	30°	G-G	2.000	2.900
B-B	1.000	30°	G-G	2.250	2.200
B-B	1.000	30°	G-G	2.500	1.800
B-B	1.000	30°	G-G	2.750	1.400
C-C	1.250	30°	G-G	1.250	6.500
C-C	1.500	30°	G-G	1.500	6.500
C-C	1.750	30°	G-G	1.750	6.500
C-C	2.000	30°	G-G	2.000	6.500
C-C	2.250	30°	G-G	2.250	6.500
C-C	2.500	30°	G-G	2.500	6.500
C-C	2.750	30°	G-G	2.750	6.500

Figure 2: Load capacities depending on the lifting and attachment points used and length

3. Area of application / intended use

The lifting beam is designed for horizontal use and may have a maximum angle of 6° to the horizontal after the load has been lifted. If the angle is greater after the load has been lifted, the configuration must be changed.

Do not use the lifting beam to tilt, turn or rotate loads.

There must be no persons in the danger zone of the suspended load!

The spreader beam is designed for 16,000 load cycles.

The spreader beam may be used in temperatures ranging from -20°C to 80°C.

4. Properties of the load

Check the load to be lifted for cracks and damage. A cracked or damaged load must not be lifted or transported. There is a risk of falling!

5. Handling

Never place limbs under or between the load and the slinging and lifting gear!

Do not allow the lifting beam to hang unnecessarily at height!

Lifting and transporting persons or loose individual parts is prohibited!

Only place the load and lifting gear on a stable and level surface, otherwise there is a risk of falling, tipping or slipping! Store the lifting beam in a dry place!

6. Mode of operation

To lift the lifting beam at lifting point A, connect a standardised shackle with a load capacity of 6.5 t to the corresponding lifting eye.

To lift the spreader beam at lifting points B-B or C-C, connect a standardised shackle with a load capacity of 3.25 t to the corresponding lifting eyes.

Adjust the length of the spreader beam to the length of the load to be lifted. To do this, attach the support feet supplied at points E-E or F-F so that the head plates of the extendable tubes do not rest on the floor. Pull the locking pin out of the main beam and slide the inner tubes into the desired position. Make sure that the tubes are not completely pulled out of the centre support.

Replace the locking pin. Ensure that no limbs are trapped between the main beam and the inner tube! The extendable tubes may only be arranged symmetrically to the lifting eye A.

For use as a spreader beam, attach a suitable hook to the shackle of the centre lifting eye A or attach a suitable 2-leg chain to the shackles of lifting eyes B-B. A graduated load capacity applies here depending on the distance between the lifting points.

To use as a spreader, attach a suitable 2-strand chain to the shackles of lifting eyes C-C and attach the load to points G-G. Observe the maximum permissible diagonal pull angle β = 30° and select chains of sufficient length. When used as a spreader, the full load capacity of 6.5 t applies to all lengths from 1.25 to 2.75 m.

The lifting gear (e.g. crane hooks, shackles, etc.) must be able to move freely in the lifting eyes. Before lifting the load, check that all slings and lifting gear are correctly attached and secured.

Position the centre of the lifting beam above the load's centre of gravity. The load can now be lifted.

After lifting the load, the spreader beam must hang horizontally. If the inclination of the spreader beam exceeds an angle of 6° to the horizontal, lower the load again immediately and reposition the attachment points or check the length of the extendable tubes. If the spreader beam is horizontal after the load has been lifted, it can now be lifted safely to its destination.

Lower the load to its destination and release the slings. Lift the spreader beam together with the lifting gear sufficiently high to prevent injury to persons and damage to objects.

Lift at a low lifting speed without backward shaking or jolting movements. Swaying movements lead to loss of control and must be avoided! Only attach the lifting gear to the points provided for this purpose!

7. Obligations of the operator

For the obligations of the operator when operating load handling attachments in hoisting operations, which also includes the spreader described here, reference is made to national guidelines (e.g. for Germany the DGUV guideline 109-017)). The following is an excerpt of some of the obligations:

7.1 Testing before commissioning

Before using the load handling attachment for the first time, check that it meets the order requirements, that the EC Declaration of Conformity is available and that all labelling is present and undamaged. Also check the functionality.

Before each use, check the lifting beam in particular for the following discard criteria:

Mini-Traverse TR_6,5-1,4 t	OK	Not OK
Main and secondary beams are parallel, no deformations or cracks visible		
Lifting and lifting eyes show no wear, are not deformed and are free of cracks		
Safety bolts for length adjustment are not deformed and free of cracks		
Slings show no wear, are not deformed and are free of cracks		
Weld seams intact, crack-free		
No visible corrosion		
Markings according to chapter 8 are present and undamaged		
No changes to the product (external welds) present		

Tabel 2: Test criteria

If one of the above criteria is answered with 'Not OK', use of the traverse is no longer permitted! Please get in touch with us. A corresponding test report in accordance with BetrSichV and DGUV regulation 109-017 is supplied. All tests can be documented there.

7.2 Regular audits

Lifting accessories such as lifting beams must be inspected by a competent person at intervals of no more than one year. Depending on the operating conditions, inspections may be required at shorter intervals.

7.3 Extraordinary audit

After cases of damage or special incidents that could impair the load-bearing capacity, the lifting beam must be subjected to an extraordinary inspection by an expert.

8. Markings

The following markings are attached to the spreader and must be permanently visible. If markings are removed or damaged, please contact us.

Quantity	Type	Content	Illustration
1	Sticker	Warning notices: - Read the operating instructions - Do not stand under suspended loads	

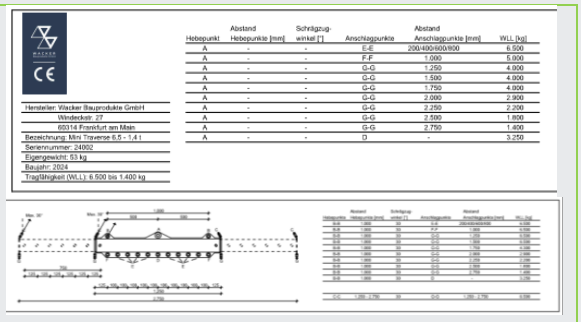
1	Sticker	- CE mark - Supplier address - Type designation - Serial number - Year of manufacture - Tare weight - Load capacity (WLL) as a function of the attachment points and length	
1	Sticker	- CE mark - Do not move under suspended loads	
1	Sticker	Logo Wacker Bauprodukte GmbH	

Figure 3: Labelling

The following information can be seen on the rating plate:

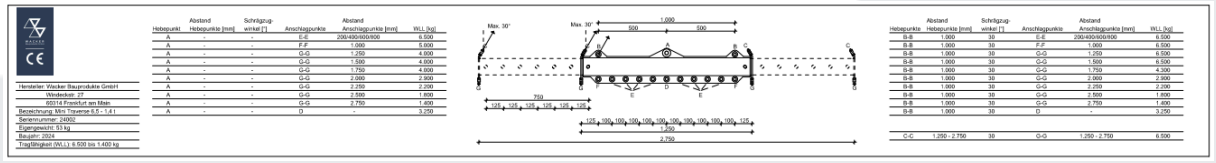


Figure 4: Type plate

9. Address of the manufacturer

Manufacturer
Wacker Bauprodukte GmbH
Windeckstr. 27
60314 Frankfurt am Main
Germany

Tabel 3: address of the manufacturer