BGW – Timber construction

Precast timber anchor system (HFA)

BGW timber transport screw system (KKAH)

BGW

Transportanker | Lifting Anchors

Magnete | Magnets

Schalungssysteme | Formwork Systems

BGW prefabricated timber anchor system (HFA) - Drive-in anchor - Drive-in nut

The manually operated load handling attachment is used to safely and easily lift all types of wooden components.

This is how the system works:

- Pre-drill through the finished part - for ***HFA M12/16mm***, ***HFA M16/19mm***, ***HFA*** M20/24mm
- Insert the anchor into the pilot hole and hammer in the staples with a hammer
- Insert anchor securing screws
- Guide the rope loop through the drilled hole and screw it into the transport anchor until the thread of the rope loop protrudes from the drop-in anchor
- Lift load
- Release anchor

Please note:

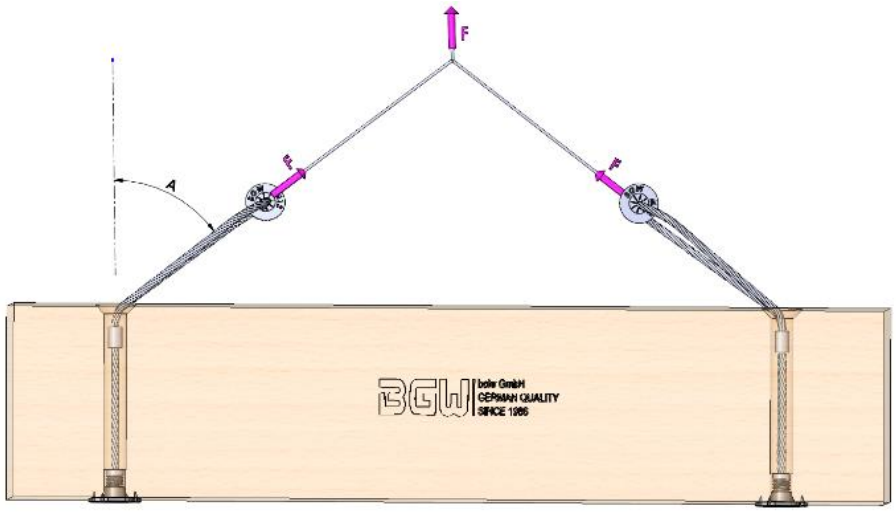
- When attaching to a crane hook, make sure that it cannot damage the wire rope
- After the precast element has been lifted a few centimeters, check (by listening) that the precast element hangs steady while suspended
- Users must be trained before initial commissioning
- Weights of the components to be lifted must be known and authorised
- According to the BGR 106 safety regulations of the trade associations, only matching transport anchors and load handling attachments from the same manufacturer may be used.
- The user is responsible for the safe transmission of forces to the component.

The metallic breaking values of the installed anchor and the load suspension device - three times the nominal load.

If a wire rope has been installed in the load suspension device, as in the rope loop, then this must be able to bear four times the nominal load in the test on the tensile testing machine.
Only the lifting equipment specified in the operating instructions may be used; this must also be observed during testing.
Lifting accessories without visible labelling on the lifting accessory or transport anchors without labelling cannot/may not be used for lifting loads.

Load specification:
Due to its installation specifications, the HFA can only ever be loaded axially.
If the HFA is installed differently, even in a softer material than that shown in the MFPA test certificates, the load-bearing behaviour may change. The metallic average breaking values in the test rig HFA M12/ 50kn, HFA M16/ 80kn, HFA M20/ 83kn.

Tests have shown that the HFA installed and tested in a board made of spruce wood, approx. 25 mm thick, presses approx. 10 mm deep into the soft spruce wood board under a tensile load of approx. 3.3 tonnes, the metal body of the HFA deforms, stretches metallically and breaks.
The HFA prefabricated wood anchor may be used once, multiple use of the HFA is not permitted for safety reasons or for liability reasons.



BGW prefabricated timber anchor (HFA) - Drive-in anchor - Drive-in nut

Test report:
https://www.bgw-bohr.de/pdf/Holzfertigteilanker_Bericht_MFPA_2014-02-10_1.pdf
EC Declaration of Conformity:
https://www.bgw-bohr.de/pdf/2006_CE-Erklaerung_HFA.pdf

The transport anchor traditionally has four cramps all round with which the anchor is attached to the precast element. Two additional holes in the transport anchor can be used for further fastening. The **BGW drop-in anchor** can be installed with the staple to the timber or vice versa. The second variant has the advantage that no pre-drilling is required for the threaded pin.

The user is responsible for the safe transmission of forces to the component.

Item no.	Load level t	Through-knife	Thread	PU Piece	Weight	Price €/piece
55176-000	0,5	60 x 3	M12	1000	0,068	1,14
55176-001	1,2	60 x 3	M16	1000	0,074	1,20
55176-002	2,0	60 x 3	M20	1000	0,072	1,25

BGW rope loop waisted

To make it easier to screw the cable loop through the prefabricated part to the transport anchor, it is combined with a press clamp in the centre. The central compression makes it easier to screw the cable loop into the transport anchor, as it also serves as a guide in the precast element. These cable loops are waisted for recessed installation so that no diagonal tensile loads can act on the threaded part.

Please note:
The thread of the rope loop must always be screwed in up to the end of the thread. Rope loops must be replaced in the event of wire breakage, damage to the thread, crushing, corrosion scars or kinks.
Inspection at least once a year by an expert (UVV VBG 9a § 42).

Item no.	Load level t	Height mm	Thread d x h	PU Piece	Weight	Price €/piece
0651S 455	0,5	455	M12 x 22	50	0,162	11,05
0651S 500	0,5	500	M12 x 22	50	0,164	
0654S	1,2	300	M16 x 27	50	0,217	
0654S 455	1,2	455	M16 x 27	50	0,291	14,30
0654S 500	1,2	500	M16 x 27	50	0,313	16,25
0654S 550	1,2	550	M16 x 27	50	0,250	
0659S 455	2,0	455	M20 x 35	50	0,452	20,15
0659S 500 G60	2,0	500	M20 x 35	50		

Further rope loops under:
BGW rope loops (search via Ctrl + F)

BGW timber transport screw system (KKAH)

The KKAH transport anchor system enables safe and easy lifting of all types of timber components.

Test report:
https://www.bgw-bohr.de/pdf/Holzfertigteilanker_Zugversuche_Transportankersystem_MFPA.pdf

Installation and usage instructions:
https://www.bgw-bohr.de/pdf/Kugelkopfabheber_Verwendungsanleitung.pdf

This is how the KKAH system works:

- Screw in screw without pilot hole
- Engage anchor
- Lift load
- Release anchor

Please note:

- Transport anchor bolt may only be used once
- Read the operating instructions in detail before use
- Users must be trained before initial commissioning
- Weights of the components to be lifted must be known and authorised
- Only the lifting equipment specified in the operating instructions may be used

BGW-KKAH timber transportanchor screw

Item no.	b mm	Length mm	Thread length mm	PU	Price €/piece
55176-100-100	12,0	100	60	50	0,64
55176-100-140		140	80	50	0,75
55176-100-220		220	120	50	1,32
55176-100-300		300	120	50	2,18
55176-100-320		320	120	50	2,27

BGW lifting shackle (KKA lifter)

The manually operated load handling attachment made of quality steel is used to safely and easily lift all types of wooden components.

Art. No.	Load group t	Kg / piece	Price €/piece
1510	1,0 - 1,3	0,70	73,60