PHILIPPGROUP

KHN-System for Lifty / Lifty DS / Lifty TEX



Application Instruction

Our products from the division BUILDING SOLUTIONS

SERVICES

- On-site tests -> we ensure that your requirements are properly covered by our planning.
- >> Test reports -> for your safety and documentation.
- Trainings -> the knowledge of your employees from planning and production is enhanced by our experts on site, online or via webinar.
- » Planning support -> latest design software, planning documents, CAD data and much more can be downloaded any time from www.philipp-group.de.

HIGH DEMANDS ON PRODUCT SAFETY AND PRACTICALITY

» Close cooperation with notified bodies and - if necessary approval of our solutions.

TECHNICAL DEPARTMENT

Our expert-team will support you at any time during your planning phase with detailed advice.



CONTENT

THE KHN-SYSTEM	Page	4
RECESS FORMER	Page	5
Plastic recess former KHN	Page	5
Key for Plastic recess former KHN	Page	6
Steel recess former KHN	Page	7
Magnetic recess former KHN	Page	8
SEALING CAPS	Page	9
Sealing cap KHN (plastic)	Page	9
Sealing cap KHN (concrete)	Page	10
Sealing cap KHN (stainless steel with slot)	Page	11
Sealing cap KHN (stainless steel with hexagon socket)	Page	11

THE PHILIPP KHN-SYSTEM

The KHN System is a well-coordinated combination of the PHILIPP lifting device Lifty, Lifty DS or Lifty TEX and the corresponding recess formers resp. sealing caps.

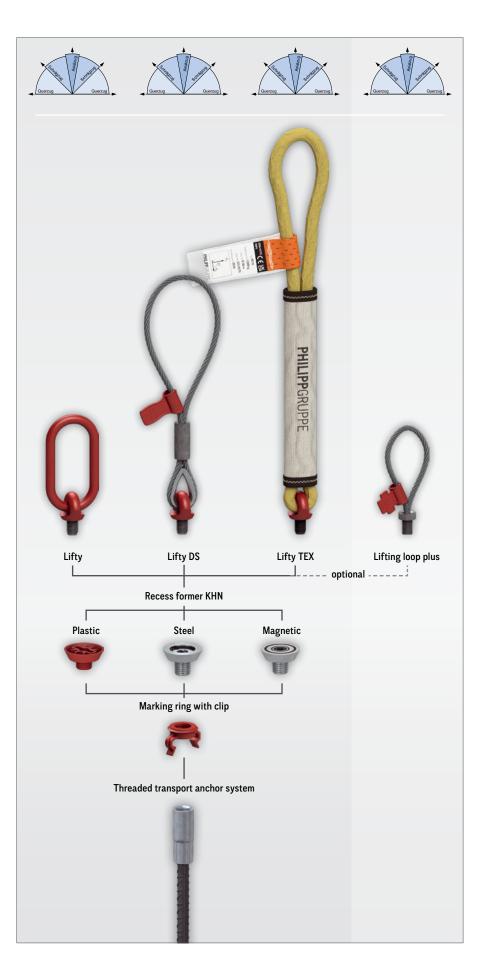
Combinations:

- » Lifting devices
 - Lifty
 - > Lifty DS
 - > Lifty TEX
 - > Lifting loop plus
- » Recess formers KHN
 - > Plastic recess former KHN
 - Steel recess former KHN
 - > Magnetic recess former KHN
- » Sealing caps KHN
 - > Sealing cap KHN (plastic)
 - > Sealing cap KHN (concrete)
 - > Sealing cap KHN (stainless steel)
- >> Transport anchor
 - Can be combined with all PHILIPP Threaded transport anchors type RD



FUTHER INFORMATION

For further information about possible combinations of lifting devices, recess formers and sealing caps please refer to the document https://document.org/readed/transport/anchors/system-combinations.



RECESS FORMER

PLASTIC RECESS FORMER KHN

Firstly, the Plastic nailing plates KHN are fixed to the formwork by nailing or hot bonding. Now the Threaded transport anchor can be screwed onto the fixed recess former. In order to avoid a change of position of the transport anchor during concreting, it may be necessary, depending on the length of the transport anchor, to fix it additionally to the reinforcement of the concrete element. After the demoulding, the Plastic nailing plate can be quickly and easily removed e.g. with the PHILIPP tool 72KHNS (page 6).

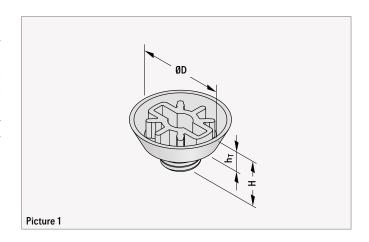
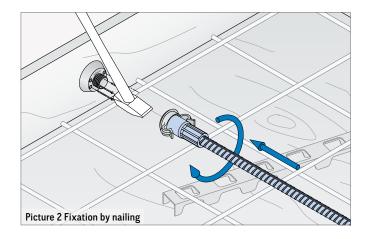
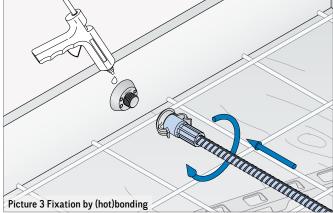


TABLE 1: PLASTIC RECESS FORMER KHN

Ref. no.	Туре	Thread	ØD	Н	h _T
	RD / M		(mm)	(mm)	(mm)
72KHN12	1 2	M12	40	20	10
72KHN16	1 6	M16	40	20	10
72KHN20	20	M20	55	25	10
72KHN24	24	M24	55	25	10
72KHN30	30	M30	70	30	10
72KHN36	3 6	M36	70	30	10
72KHN42	42	M42	96	35	12
72KHN52	- 52	M52	96	35	12





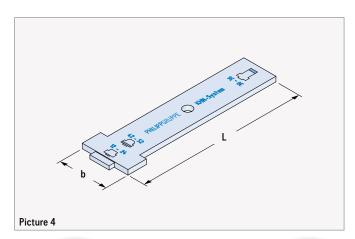
RECESS FORMER

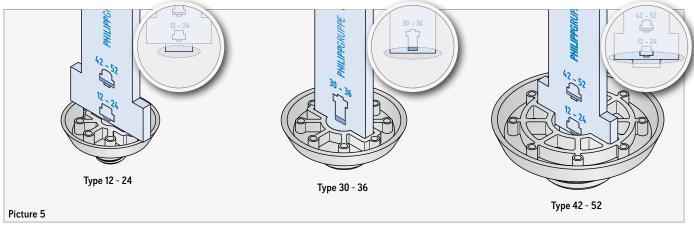
KEY FOR PLASTIC RECESS FORMER KHN

The tool/key is used for an easy unscrewing of the Plastic nailing plate (72KHN_) from the transport anchor set in concrete. Due to its special geometry, the tool/key can be used for all nailing plate sizes (type 12 - 52) of the KHN system.

TABLE 2: KEY

Ref. no.	Type RD / M	L (mm)	b (mm)
72KHNS	12 - 52	200	57





RECESS FORMER

STEEL RECESS FORMER KHN

With Steel recess formers KHN threaded transport anchors can be fixed with screws (with metric thread) or nails to the formwork. Depending on the length of the Threaded transport anchors, it may be necessary to fix the anchor to the reinforcement of the concrete element additionally.

After demoulding, the Steel recess former can be quickly and easily removed with an Allen key (see table 3).

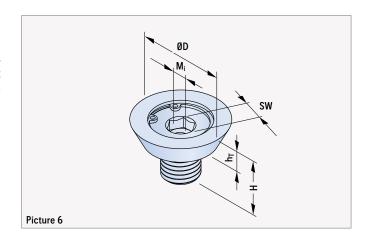
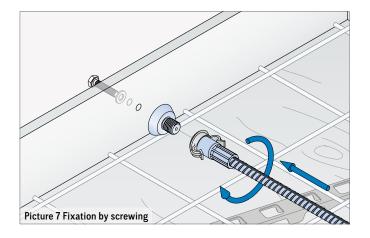
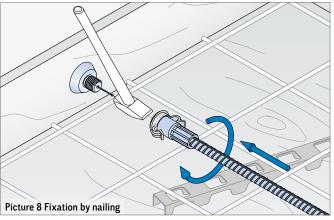


TABLE 3: STEEL RECESS FORMER KHN

Ref. no.	Туре	Thread	ØD	Н	h _T	M _i	SW
	RD / M		(mm)	(mm)	(mm)	(mm)	(mm)
72KHN12STK	12	M 12	40	23	10	M 6	8
72KHN16STK	16	M 16	40	27	10	M 8	10
72KHN20STK	20	M 20	55	31	10	M 8	10
72KHN24STK	24	M 24	55	35	10	M 10	14
72KHN30STK	30	M 30	70	43	10	M 10	14
72KHN36STK	36	M 36	70	48	10	M 10	14
72KHN42STK	42	M 42	96	59	12	M 16	17
72KHN52STK	52	M 52	96	69	12	M 16	17





RECESS FORMER

MAGNETIC RECESS FORMER KHN

The Magnetic recess formers KHN are fixed to the steel formwork with a screwed-on transport anchor. Here, a correction of the position on the formwork is possible at any time. In order to avoid a change of position of the transport anchor during concreting, it may be necessary, depending on the length of the transport anchor, to fix it additionally to the reinforcement of the concrete element.

After the demoulding, the Magnetic recess former can be quickly and easily removed with an Allen key (see table 4). In order to achieve the optimum adhesive force of the Magnetic recess former the adhesive surface of the recess former and the steel formwork shall be cleaned after use.

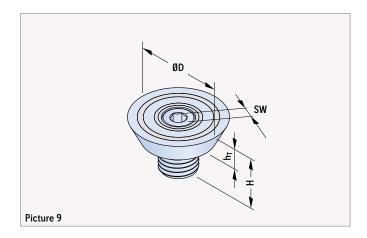


TABLE 4: MAGNETIC RECESS FORMER KHN

Ref. no.	Туре	Thread	ØD	Н	h _T	Adhesion	SW
	RD / M		(mm)	(mm)	(mm)	(kg)	(mm)
72MAXKHN12	12	M 12	40	25	10	60	6
72MAXKHN16	16	M 16	40	25	10	60	6
72MAXKHN20	20	M 20	55	30	10	100	8
72MAXKHN24	24	M 24	55	30	10	100	8
72MAXKHN30	30	M 30	70	30	10	180	8
72MAXKHN36	36	M 36	70	30	10	180	8
72MAXKHN42	42	M 42	96	35	12	180	8
72MAXKHN52	52	M 52	96	35	12	180	8



FURTHER INFORMATION

HANDLING!

Improper handling may result in skin bruises and haematomas. Due to the high impact speeds, parts of the magnet can splinter and cause injuries. Magnets do not belong in children's hands. Also swallowing of the magnets can cause serious medical problems. Persons with pacemakers are advised to keep a certain safety distance to strong magnets. Also direct contact with magnetic materials can lead to allergic reactions (e.g. against ceramic and metallic materials as well as zinc, nickel or plastics).

TEMPERATURE!

Please note that the magnets have a maximum operating temperature of 80 °C. At temperatures above 80 °C, they may permanently lose some of their adhesive force.

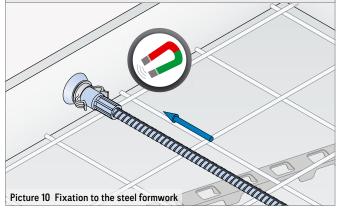
EFFECT!

Please note that magnetic fields can delete data media such as hard disks, cards with magnetic stripes etc. Electronic and mechanic components such as pacemaker, watches, counters, compasses, displays can be influenced or destroyed. Therefore, keep a distance of at least one metre to these objects.



NOTE ON CONCRETING

If concrete is poured over the magnetically fixed transport anchor, the magnetic recess former on the formwork may be displaced. To avoid this, the area of the anchor must be skipped during concreting



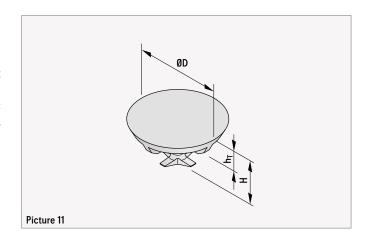
Responsibility!

The Magnets are coated to protect them. This coat can be removed during normal use. Splintering of the coating is possible when magnets collide. But this does not affect the performance of the magnets and is no reason for complaint. Mechanical influences such as welding or grinding must be avoided in all cases.

SEALING CAPS

SEALING CAP KHN (PLASTIC)

The Sealing cap KHN (plastic) covers the complete range of thread sizes from 12 to 52 (table 5) with only four types. As the Plastic sealing cap is only pressed into the Threaded transport anchor, it has no disturbing recesses on the visible surface for screwing in and out (slot, hexagon socket). Hence, the Sealing cap in plastic offers an visual attractive solution to close recesses surface-flush.



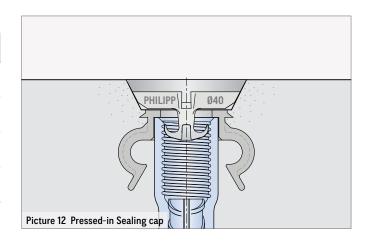


NOTE!

Sealing caps are used exclusively as visual attractive closing of the recesses. In order to avoid damage to the concrete element (e. g. spalling due to frost), the user shall ensure that the Sealing caps are protected against moisture penetration.

TABLE 5: SEALING CAP KHN (PLASTIC)

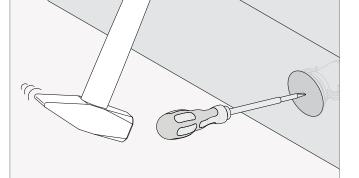
Ref. no.	Type RD / M	ØD (mm)	H (mm)	h _T (mm)
72ASKHN040	12	40	20	10
	16			
72ASKHN055	20	55	28	10
7ZASKI INUSS	24	33	20	10
72ASKHN070	30	70	40	10
12A3KHNU1U	36	70	40	10
72ASKHN096	42	96	60	12
	52	90	00	ıζ



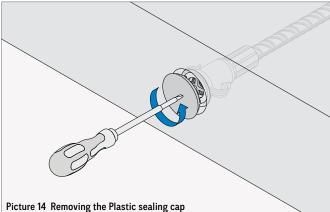
REMOVING THE PLASTIC SEALING CAP

Picture 13 Removing the Plastic sealing cap

In order to remove the Plastic sealing cap, punch a big screwdriver centrally into it.



Danach kann der Abdeckstopfen einfach herausgedreht werden.



SEALING CAPS

SEALING CAP KHN (CONCRETE)

The KHN concrete cover plug is a visually sophisticated and high-quality solution for sealing the recesses. The cover plug completely seals the entire recess.



NOTE!

Sealing caps are used exclusively as visual attractive closing of the recesses. In order to avoid damage to the concrete element (e.g. spalling due to frost), the user shall ensure that the Sealing caps are protected against moisture penetration.

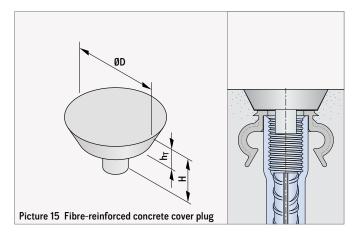


TABLE 6: SEALING CAP KHN (CONCRETE)

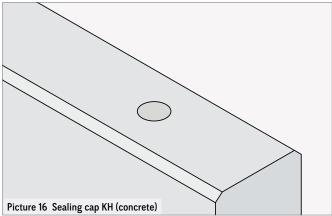
Ref. no.	Туре	ØD	h _T	Н
	RD / M	(mm)	(mm)	(mm)
72ASKHN040FB	12 - 16	40	10	15
72ASKHN055FB	20 - 24	55	10	22
72ASKHN070FB	30 - 36	70	10	22
72ASKHN096FB	42 - 52	96	12	30

Other colours are available on request.



COLOUR VARIATION

This product may vary in colour (within the delivery and to the finished part).

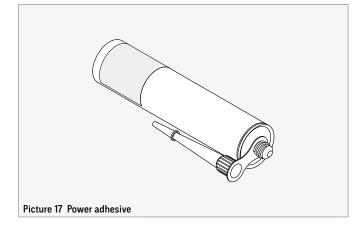


POWER ADHESIVE

The power adhesive is used to glue in the concrete cover plug KHN. Complete bonding of the cover plugs significantly reduces the risk of damage caused by frost, for example.

TABLE 7: POWER ADHESIVE

Ref. no.	Colour	Content
		(ml)
72FB-KRAFTKLEBER	grey	310





PRODUCT TIP!

As direct force on the concrete cover plugs (e.g. in stairs) can lead to damage, we recommend using stainless steel cover plugs for installation! (see page 11)

SEALING CAPS

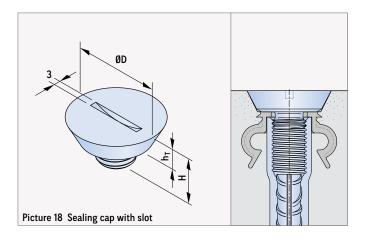
SEALING CAP KHN (STAINLESS STEEL)

Der Edelstahl-Abdeckstopfen KHN ist eine optisch anspruchsvolle und hochwertige Lösung zum Verschließen der Aussparungen. Dieser ist mit Schlitz oder Innensechskant in der im Einbauzustand sichtbaren Fläche erhältlich. Der Edelstahl-Abdeckstopfen verschließt die gesamte Aussparung vollständig.



NOTE!

Sealing caps are used exclusively as visual attractive closing of the recesses. In order to avoid damage to the concrete element (e.g. spalling due to frost), the user shall ensure that the Sealing caps are protected against moisture penetration.



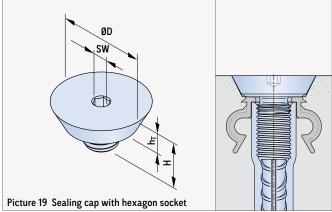
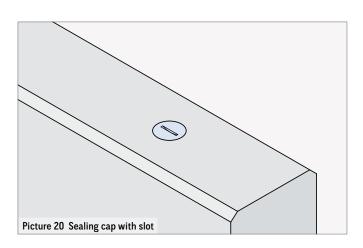
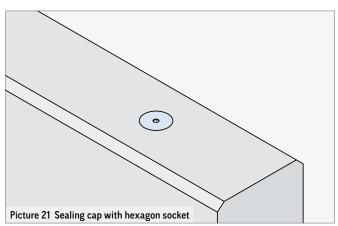


TABLE 8: SEALING CAP KHN (STAINLESS STEEL)

Ref. no.		Туре	Thread	ØD	Н	h _T	SW
with slot	with hexagon socket	RD / M		(mm)	(mm)	(mm)	(mm)
72ASKHN12VA-S	72ASKHN12VA-ISK	12	M 12	40	18	10	6
72ASKHN16VA-S	72ASKHN16VA-ISK	16	M 16	40	18	10	6
72ASKHN20VA-S	72ASKHN20VA-ISK	20	M 20	55	22	10	6
72ASKHN24VA-S	72ASKHN24VA-ISK	24	M 24	55	22	10	6
72ASKHN30VA-S	72ASKHN30VA-ISK	30	M 30	70	25	10	6
72ASKHN36VA-S	72ASKHN36VA-ISK	36	M 36	70	25	10	6
72ASKHN42VA-S	72ASKHN42VA-ISK	42	M 42	96	30	12	6
72ASKHN52VA-S	72ASKHN52VA-ISK	52	M 52	96	35	12	6







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