PHILIPPGROUP

PHILIPP WS system



for PHILIPP Wirbelstar / Wirbelstar KH with adapter disc

Application Instruction

Transport and mounting systems for prefabricated building

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■ Technical department	Our staff will be pleased to support your planning phase with suggestions for the installation and use of our transport and mounting systems for precast concrete construction.
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	Customized to your particular needs.
Practical tests on site	
	We ensure that our concepts are tailored precisely to your requirements.
Inspection reports	
	For documentation purposes and your safety.
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■ High safety level when using our	products
_ <u>g</u>	Close cooperation with federal materials testing institutes (MTIs), and official approvals for the use of our products and solutions whenever necessary.
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PHILIPP WS system

The WS system is a well-coordinated combination of the PHILIPP lifting device Wirbelstar or Wirbelstar KH and the corresponding recess formers resp. sealing caps.

Combinations:

⊘ Lifting devices

- ✓ Wirbelstar KH (with adapter disc)

⊘ Recess formers

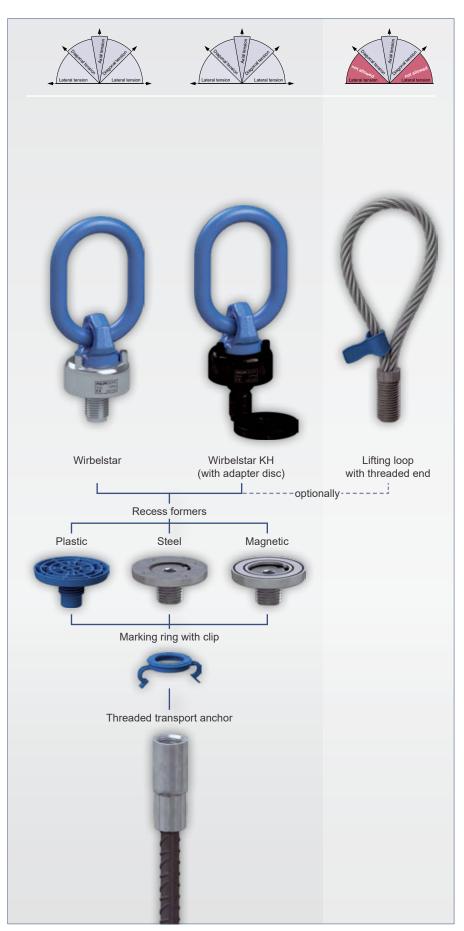
⊘ Sealing cap

Sealing cap WS (stainless steel)

⊘ Transport anchor

 Can be combined with all PHILIPP Threaded transport anchors type RD





Plastic recess former WS

The Plastic recess formers WS are fixed to the formwork by nailing or hot bonding. Now, the Threaded transport anchor can be screwed onto the fixed Recess former WS. 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 recess former WS can be quickly and easily removed e.g. with the PHILIPP tool 67WS (page 6).

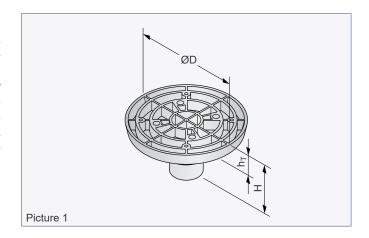
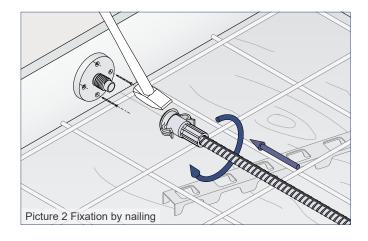
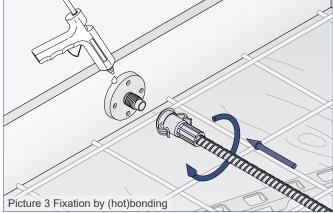


Table 1: Plastic recess former WS								
Refno.	Type	Thread	ØD	Н	h _T			
	RD/M		[mm]	[mm]	[mm]			
72KHN36WS	3 6	M36	105	54	12			
72KHN42WS	42	M42	115	58	15			
72KHN52WS	<u> </u>	M52	136	57	15			

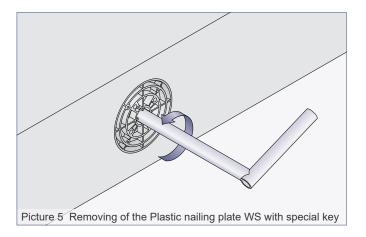


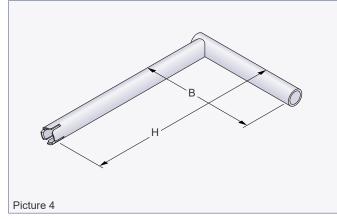


Key for Plastic recess former WS

The tool/key is used for an easy unscrewing of the Plastic recess former WS (72KHN_WS) from the transport anchor set in concrete. Due to its special geometry, the tool/key can be used for all nailing plate sizes (type 36-52) of the WS system.

Table 2: Key for Plastic nailing plate							
Refno. B H							
	[mm]	[mm]					
67WS	130	220					





Steel recess former WS

With Steel recess formers WS 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 WS can be quickly and easily removed with an Allen key (see table 3).

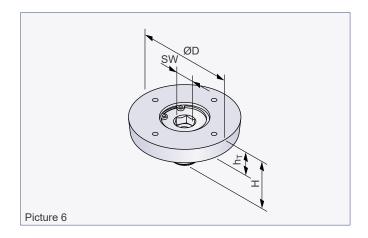
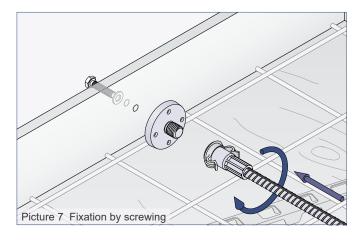
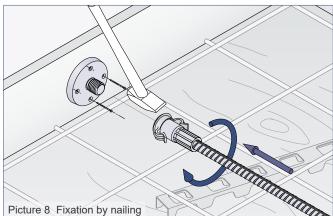


Table 3: Steel recess former WS							
Refno.	Refno. Type Thread		ØD	Н	h _T	SW	
	RD/M		[mm]	[mm]	[mm]	[mm]	
72SAT12K	12	M 12	50.5	23	10	8	
72SAT14K	14	M 14	55.5	25	10	8	
72SAT16K	16	M 16	66.0	27	10	10	
72SAT18K	18	M 18	69.0	29	10	10	
72SAT20K	20	M 20	80.0	31	10	10	
72SAT24K	24	M 24	78.0	35	12	14	
72SAT30K	30	M 30	95.0	43	12	14	
72SAT36K	36	M 36	105.0	48	12	14	
72SAT42K	42	M 42	115.0	59	15	17	
72SAT52K	52	M 52	136.0	69	15	17	
72SAT56K	56	M 56	155.0	76	18	17	
72SAT60K	60	M 60	155.0	78	18	17	





Magnetic recess former WS

The Magnetic recess formers WS 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 demoulding, the Magnetic recess former WS 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.

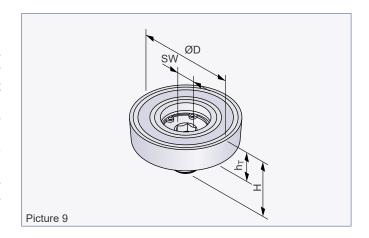
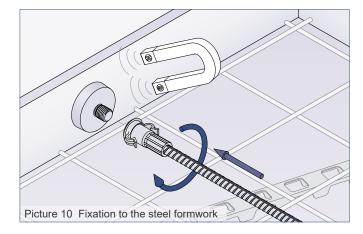


Table 4: Magnetic recess former WS						
Refno.	Refno. Type Thread		ØD	Н	h _T	SW
	RD/M		[mm]	[mm]	[mm]	[mm]
72SATM12K	12	M 12	50.5	23	12	8
72SATM14K	14	M 14	55.5	25	12	8
72SATM16K	16	M 16	66.0	30	15	10
72SATM18K	18	M 18	69.0	32	15	10
72SATM20K	20	M 20	80.0	34	15	10
72SATM24K	24	M 24	78.0	37	15	14
72SATM30K	30	M 30	95.0	45	15	14
72SATM36K	36	M 36	105.0	50	15	14
72SATM42K	42	M 42	115.0	59	15	17
72SATM52K	52	M 52	136.0	69	15	17





Handling!

Improper handling may result in skin bruises and haematomas. Due to the high impact speeds, parts of the magnets can splinter and cause injuries. Magnets don't belong in children's hands. Also swallowing of the magnets may 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).

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 pacemakers, watches, counters, compasses, displays can be influenced or destroyed. Therefore, keep a distance of at least one metre to these objects.

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.

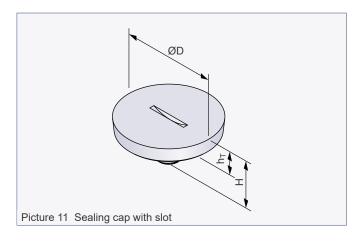
Sealing cap WS

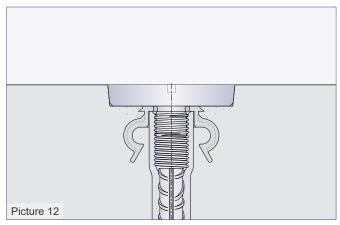
Sealing cap WS (stainless steel)

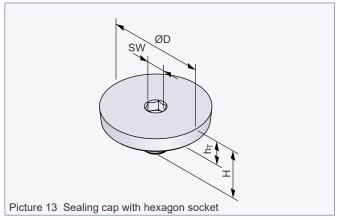
A high-quality and visual attractive solution for closing recesses surface-flush is a Sealing cap WS in stainless steel (picture 12 and 14). This is available with slot or hexagon socket on the visible surface to offer a simple possibility to remove it.



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.







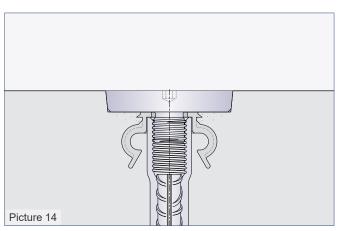


Table 5: Sealing cap WS (stainless steel)								
Ref	Type	Thread	ØD	Н	h _T	SW		
with slot	with hexagon socket	RD/M		[mm]	[mm]	[mm]	[mm]	
72ASSAT12VA-S	72ASSAT12VA-ISK	12	M 12	50.5	22	10	8	
72ASSAT14VA-S	72ASSAT14VA-ISK	14	M 14	55.5	22	10	8	
72ASSAT16VA-S	72ASSAT16VA-ISK	16	M 16	66.0	25	10	10	
72ASSAT18VA-S	72ASSAT18VA-ISK	18	M 18	69.0	27	10	10	
72ASSAT20VA-S	72ASSAT20VA-ISK	20	M 20	80.0	27	10	10	
72ASSAT24VA-S	72ASSAT24VA-ISK	24	M 24	78.0	27	12	14	
72ASSAT30VA-S	72ASSAT30VA-ISK	30	M 30	95.0	30	12	14	
72ASSAT36VA-S	72ASSAT36VA-ISK	36	M 36	105.0	30	12	14	
72ASSAT42VA-S	72ASSAT42VA-ISK	42	M 42	115.0	40	15	17	
72ASSAT52VA-S	72ASSAT52VA-ISK	52	M 52	136.0	40	15	17	

Our customers trust us to deliver. We do everything in our power to reward their faith and we start each day intending to do better than the last. We provide strength and stability in an ever-changing world.

Welcome to the PHILIPP Group



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