



THE FORMWORK

NOE® FixKonus

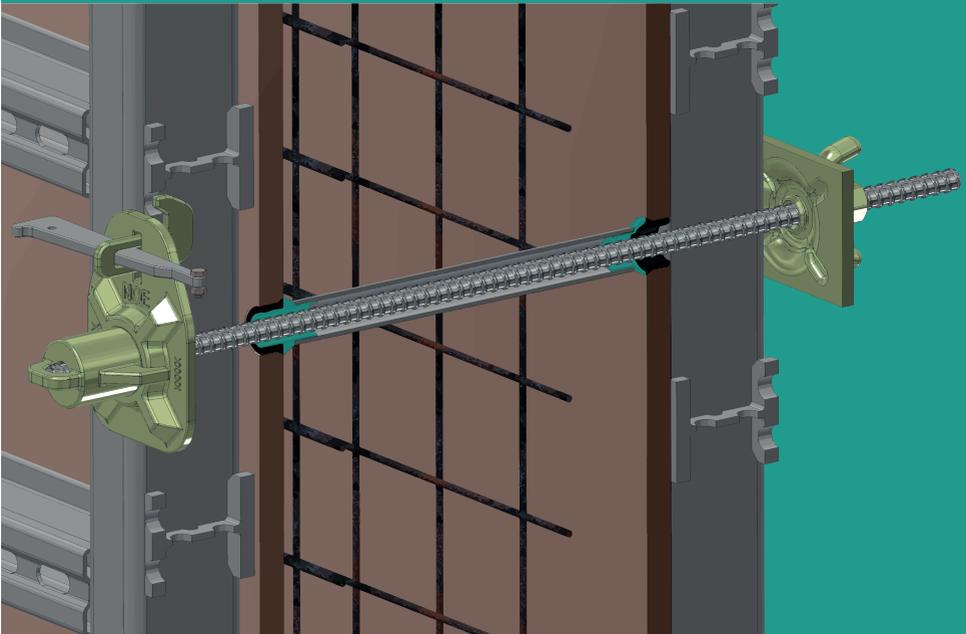
Dated: 10.2019

Operating Instructions

NOEtop EinsA fixed bearing

NOEtop EinsA magnetic bearing

NOEtop EinsA compensation piece



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1 NOE FixKonus

1.1 General description

The NOE FixKonus system consists of a support cone and a centring cone. Between them sits a conventional sleeve.

NOE FixKonus can be used with 1-sided and 2-sided tie systems with a conventional tie rod.

Advantages:

- The sleeve attaches independently to the formwork
- One-sided tie with conventional sleeve and tie rod
- No need for panel refits

Use with 1-sided or conventional tie systems

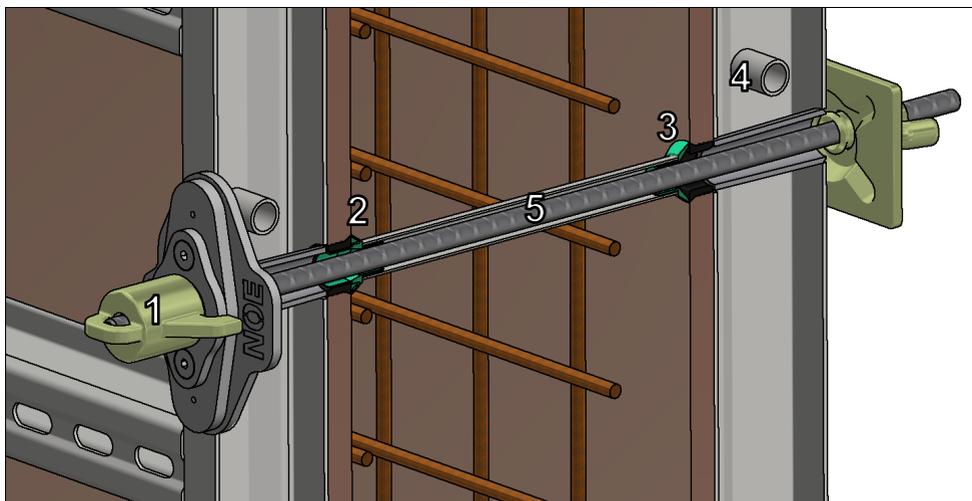


1. First-face formwork with fixed bearing
2. Support cone
3. Centring cone
4. Second-face formwork
5. Conventional tie rod with sleeve

**For fixed bearing
installation
see Section 02**



Use only on large-format panels with integral bracing.



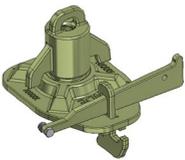
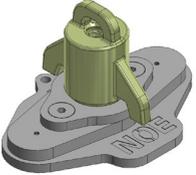
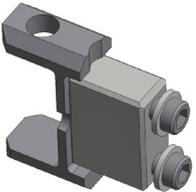
1. First-face formwork with magnetic bearing
2. Support cone
3. Centring cone
4. Second-face formwork
5. Conventional tie rod with sleeve

**For magnetic bearing
installation
see Section 02**



Use at the edge area of the panels.

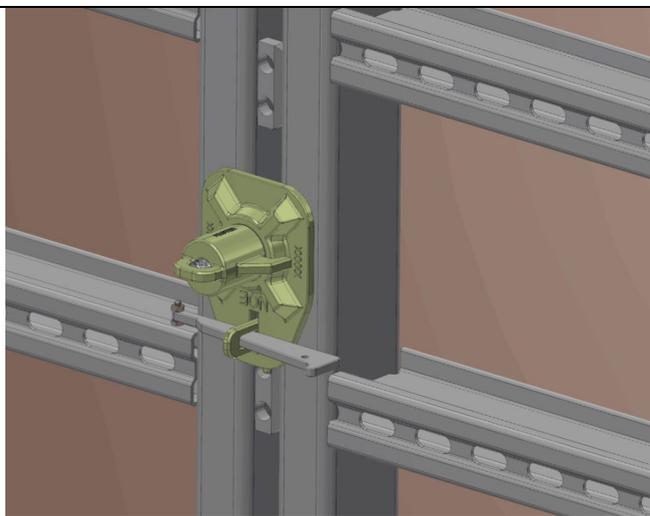
1.2 Individual parts

<p>NOE FixKonus Support cone D22/26 Weight 6.7 g</p>	
<p>NOE FixKonus Centring cone D22 Weight 4.6 g</p>	
<p>NOE FixKonus set, consisting of 250 No. support cones and 250 No. centring cones Part No. 693810</p>	
<p>Swivel plate with wing nut 100x140x8 Part No. 691700 Weight 1.4 kg</p>	
<p>NOEtop EinsA Fixed bearing Part No. 680045 Weight 2.7 kg</p>	
<p>NOEtop EinsA Magnetic bearing Part No. 680060 Weight 2.8 kg</p>	
<p>NOEtop EinsA Compensation piece Part No. 680052 Weight 0.85 kg</p>	

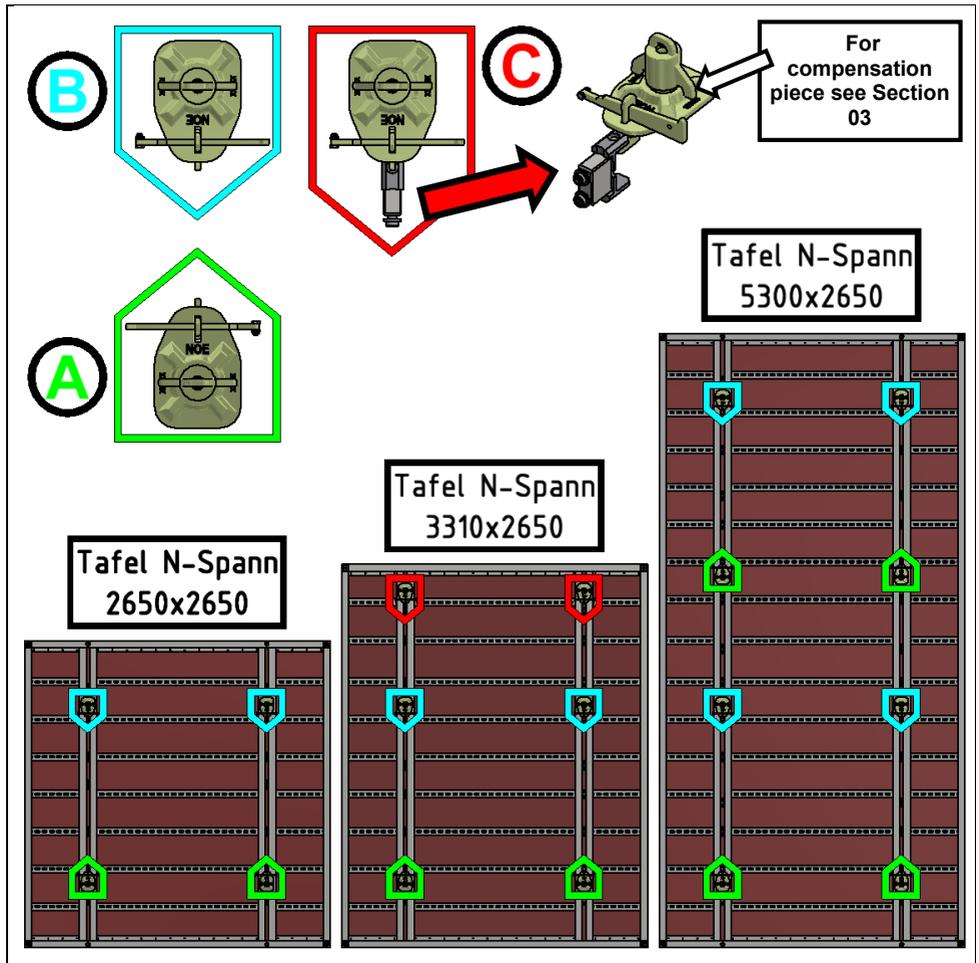
2 Assembly

2.1 *Fixed bearing installation on large-format panels with integral bracing*

Install fixed bearing on first-face formwork

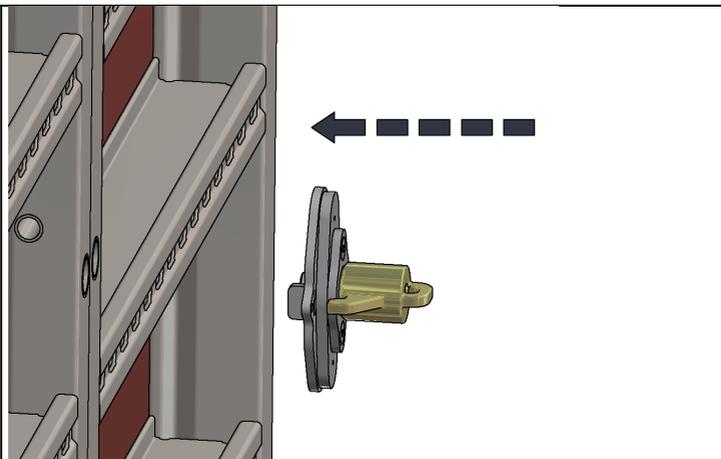


2.2 Position of fixed bearing

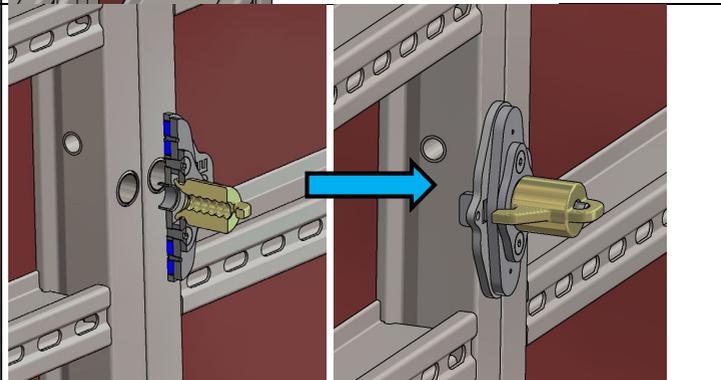


2.3 Magnetic bearing installation on standard panels $b \leq 1325$ mm at the edge profile

Attach NOE EinsA magnetic bearing to the NOEtop first-face formwork.

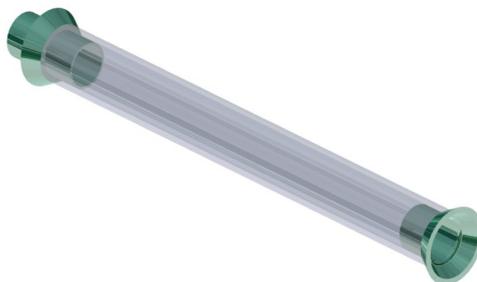


Ensure that the stop on the magnetic bearing is correctly aligned and positioned !

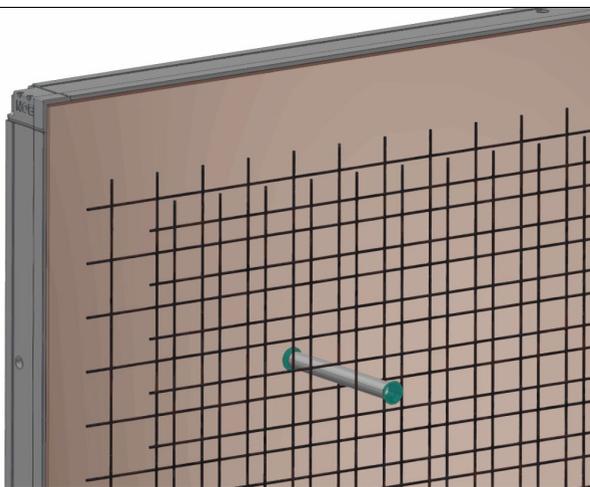


2.4 Installation sequence FixKonus and tie rod

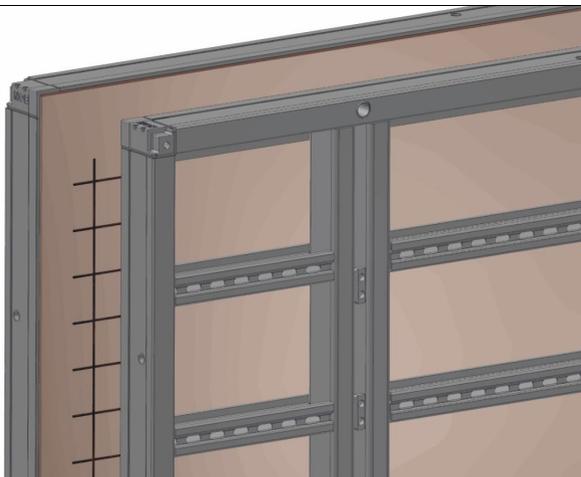
Cut sleeve to length,
push on support cone and
centring cone.



Push sleeve with support cone
onto the tie rod recess tube of
the first-face formwork, before
or after the reinforcement is
fixed.



Erect all the panels.

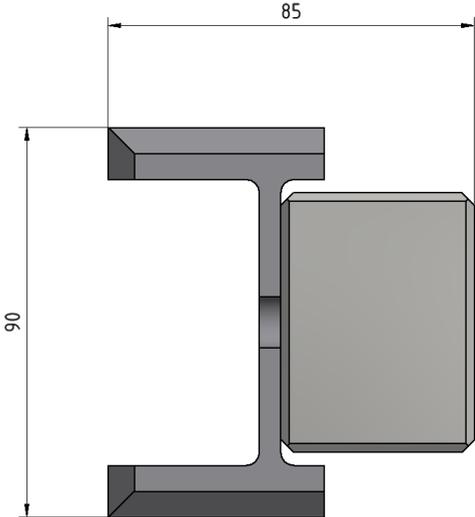
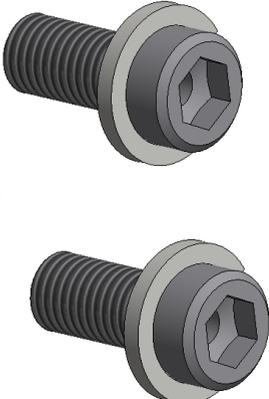


Insert tie rod and install the swivel plate with wing nut.



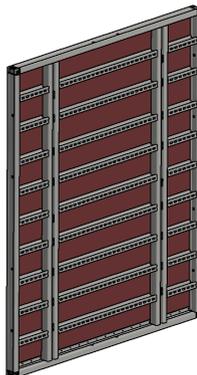
3 Compensation piece

3.1 Technical data:

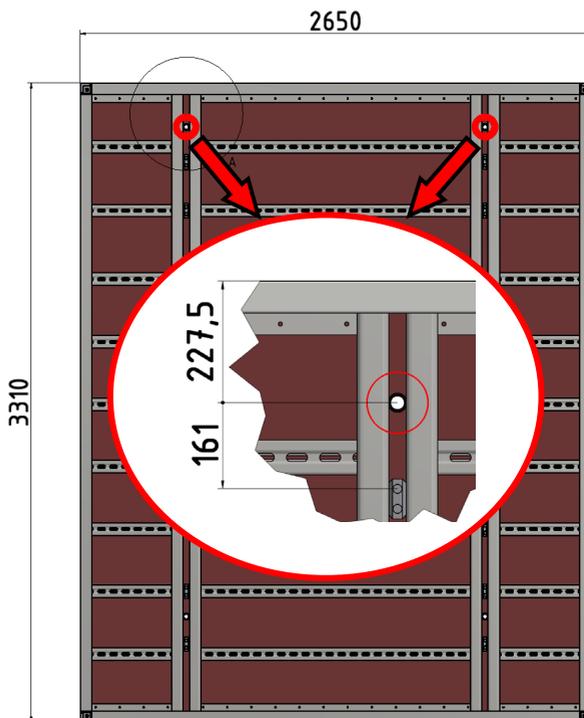
<p>NOEtop EinsA compensation piece</p> <p>Part No. 680052 Self-weight 0.84 kg</p>	 <p>M12x30 8.8 DIN 6912 with spring washer A14 DIN 127</p> 

3.2 Scope of use compensation piece

The NOEtop EinsA compensation piece is used on the NOEtop panel 2650x3310 NSPANN Part No. 168052 and is required to allow the fixed bearing to be correctly attached.



The distance piece is attached only at the 2 top rod positions.



3.3 Installation at integral bracing

NOE recommends the following tools for installation:

①

3/8 ratchet wrench
10 mm square drive

②

Extension
150 mm

③

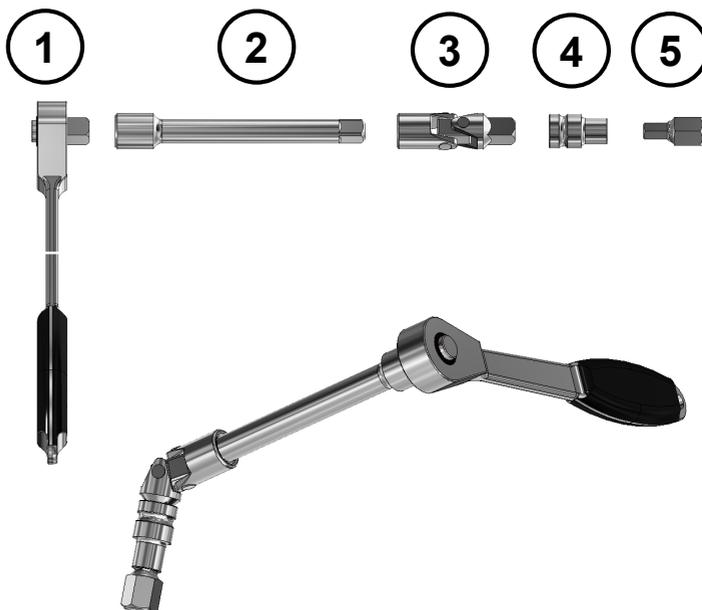
Universal joint
10 mm (3/8) square drive

④

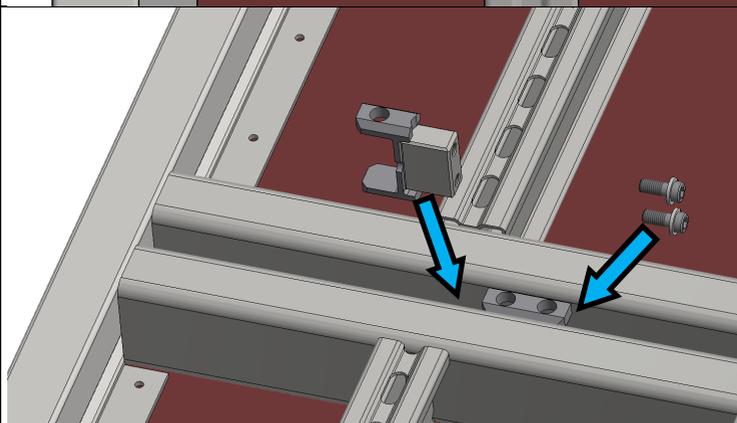
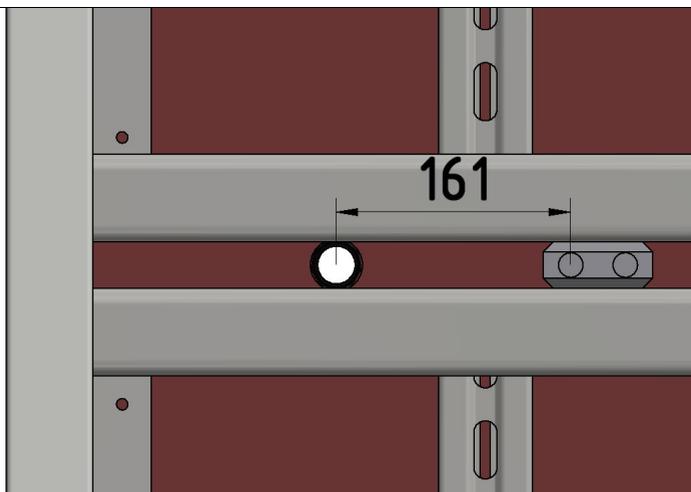
Bit adapter with ball detent 10 mm (3/8) square socket drive, 8 mm (5/16) hex socket drive

⑤

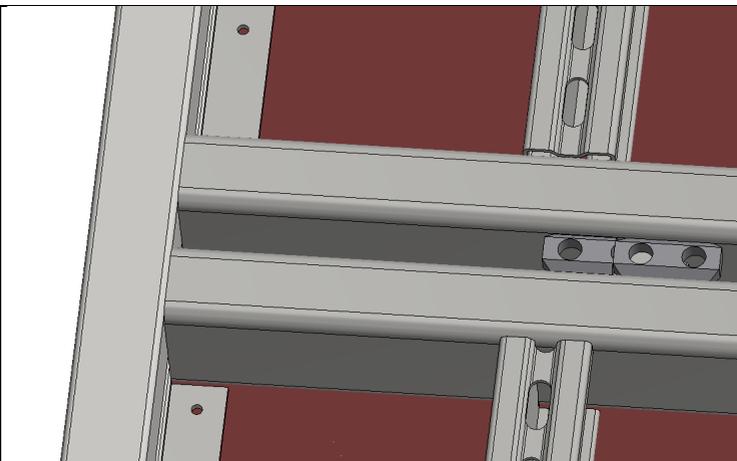
Bit drive 8 mm hex drive, 10 mm hex drive



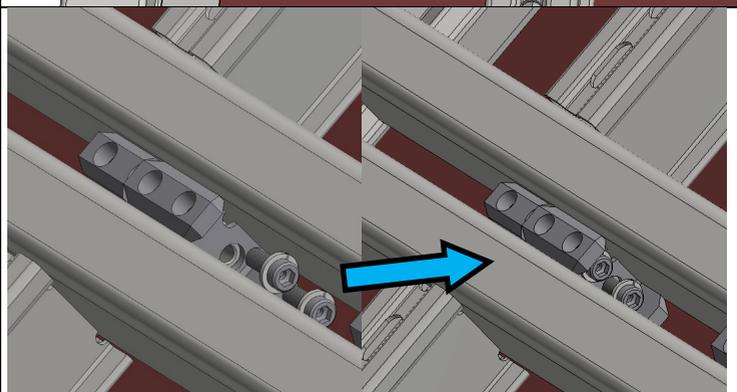
The compensation piece must be installed at the distance shown!



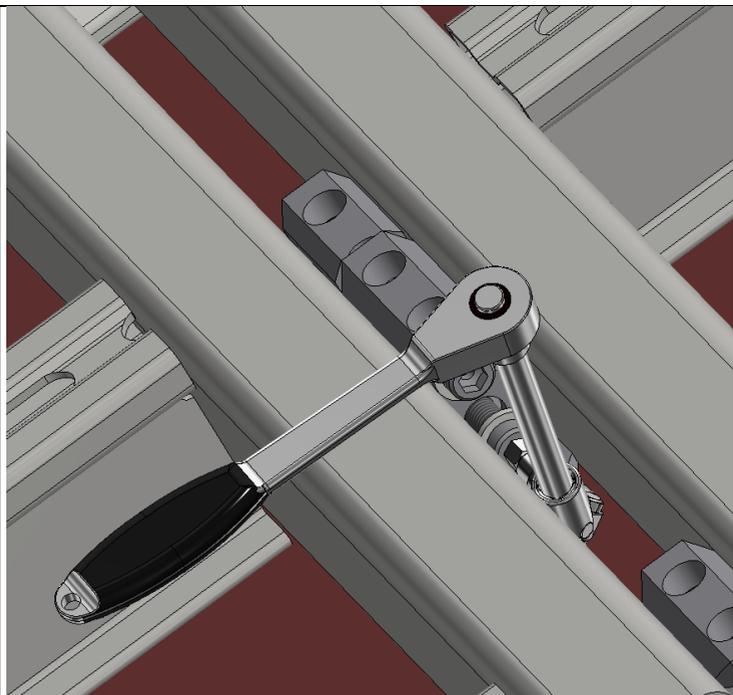
Position the compensation piece as shown!



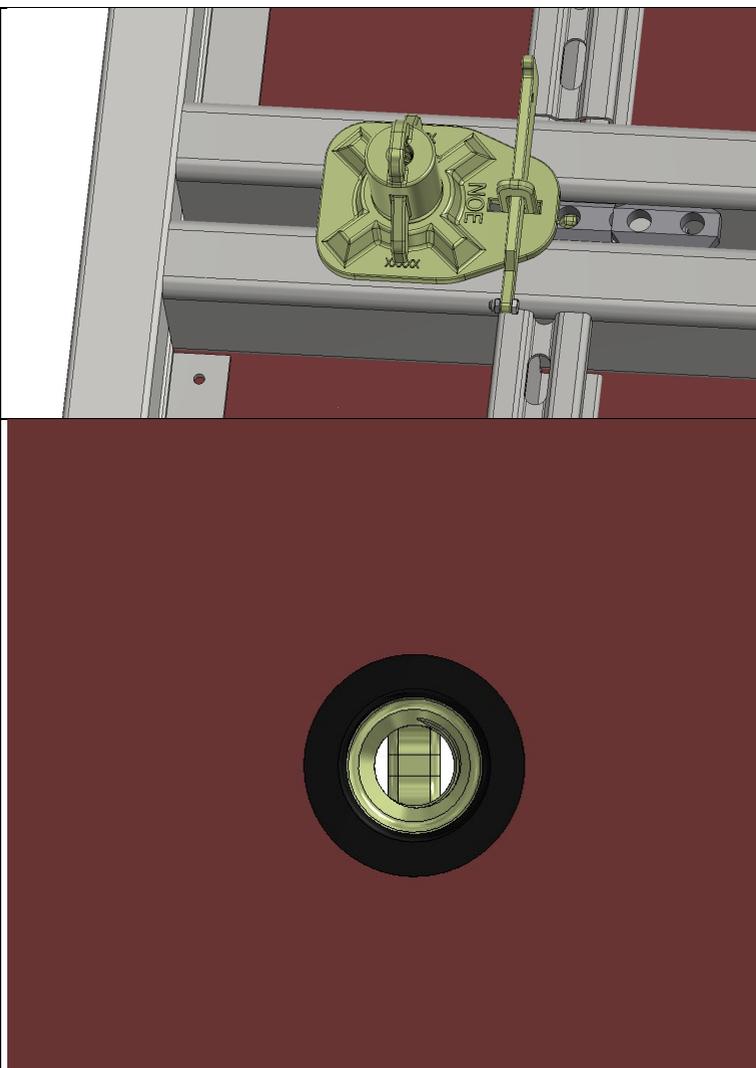
Screw in both M12x30 screws with spring washers one after the other, use approx. 3 turns.



Fully screw in the screws and tighten using the recommended installation tool.

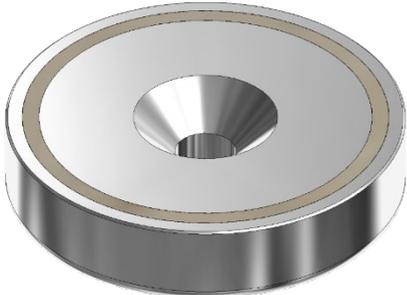
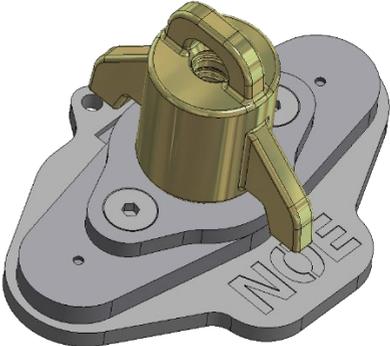


The fixed bearing
can now be
attached.

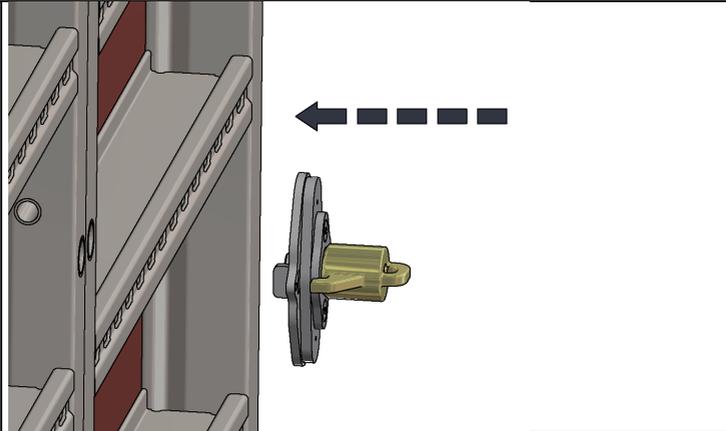
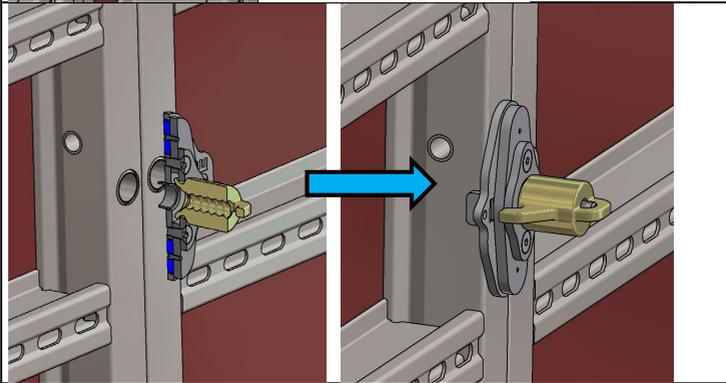
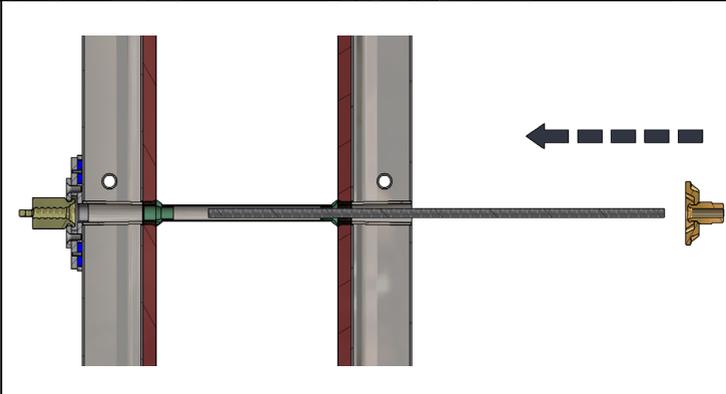


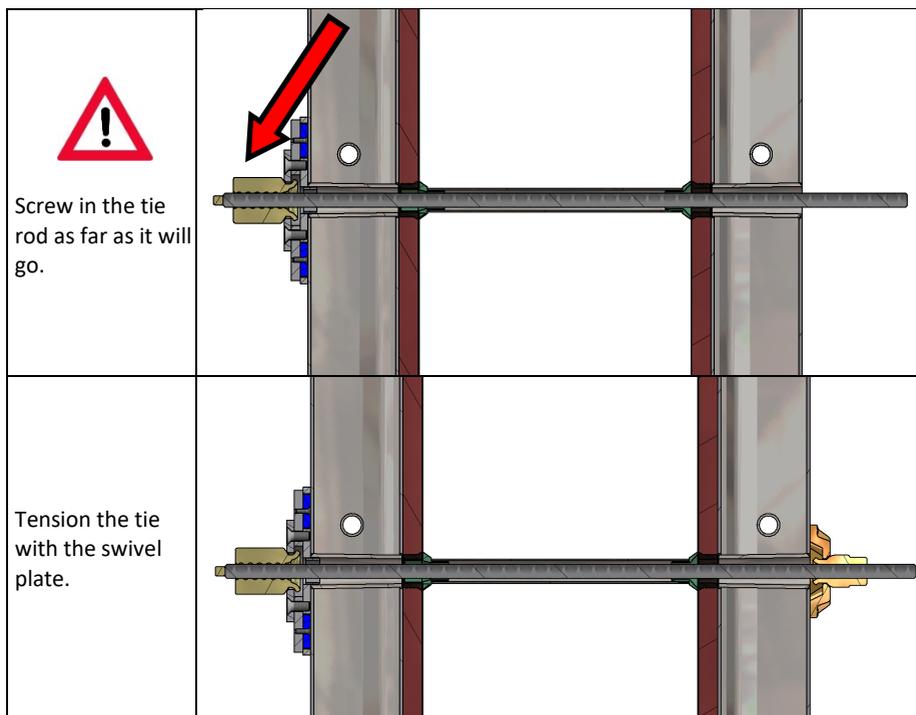
4 Magnetic bearing

4.1 Technical data

	
<ul style="list-style-type: none"> • Designation TB-36x8xD5.5-NI-N35 • 36 mm diameter • 8 mm overall height • Material NdFeB (neodymium-iron-boron alloy) • Magnetisation / Grade N35 • Coating NiCuNi (nickel) • Adhesion force approx. 35 kg • Weight approx. 60 g • Maximum usage temperature 80 °C 	<ul style="list-style-type: none"> • Part No. 680060 • Self-weight 2.8 kg • Dimensions 133x182x119mm

4.2 Magnetic bearing installation

<p>Attach NOE EinsA magnetic bearing to the NOEtop first-face formwork.</p>	
<p> Ensure that the stop on the magnetic bearing is correctly aligned and positioned !</p>	
<p> Insert the tie rod slowly! Do not push it in forcefully, otherwise the magnetic bearing could be pushed off.</p>	



4.3 Standards and regulations

- The magnets do not contain toxic materials in accordance with RoHS Directive 2002/95/EC.
- No requirement to register under the provisions of Regulation (EC) No. 1907/2006 (REACH)
- We would specifically point out that neodymium magnets are not suitable for export to the following countries: USA, Canada, Japan

4.4 Warnings

	<p>Heart pacemakers</p>
	<p>Magnets can affect the functioning of heart pacemakers and implanted defibrillators.</p> <ul style="list-style-type: none"> • Magnets can switch a heart pacemaker into test mode and cause discomfort. • A defibrillator may stop working in some circumstances.
	<p>Metal splinters</p>
	<p>Neodymium magnets are brittle. If two magnets collide, they may splinter. Sharp-edged splinters can be projected metres away and may injure your eyes.</p> <ul style="list-style-type: none"> • Do not allow magnets to collide. • Wear protective glasses when handling larger magnets. • Ensure that anyone in the vicinity is similarly protected or keeps their distance.

4.5 Handling and storage

	<p>Magnetic field</p>
	<p>Magnets create a powerful magnetic field that can act over a long distance. They can damage many items, including televisions and laptops, computer hard drives, credit and debit cards, data carriers, mechanical clocks, hearing aids and loudspeakers.</p>
	<ul style="list-style-type: none"> • Keep devices and objects that could be damaged by strong magnetic fields away from magnets.
	<p>Flammability</p>
	<p>The dust created by machining or drilling neodymium magnets is readily ignitable.</p>
	<p>Avoid machining magnets or use suitable tools and sufficient coolant water.</p>
	<p>Nickel allergy</p>
	<p>The magnets contain nickel.</p> <ul style="list-style-type: none"> • Some people experience an allergic reaction to contact with nickel. • Nickel allergies can develop as a result of lasting contact with objects that contain nickel.
	<ul style="list-style-type: none"> • Avoid lasting skin contact with magnets. • Avoid handling magnets if you already have a nickel allergy.

	<p>Splintering of the coating</p> <p>The neodymium magnets have a thin nickel-copper-nickel coating to protect them from corrosion. This coating can splinter or crack as a result of collisions or high compression forces. This can make the magnets susceptible to oxidation and environmental influences such as moisture.</p> <ul style="list-style-type: none"> • Separate large magnets, especially spherical magnets, from one another with a piece of cardboard. • In general, avoid collisions between magnets and repeated mechanical loads (e.g. blows).
	<p>Temperature resistance</p> <p>Neodymium magnets have a maximum usage temperature of 80 °C. At temperatures above 80 °C, neodymium magnets lose some of their adhesion force.</p> <ul style="list-style-type: none"> • Do not use the magnets in places where they are exposed to significant heat.
	

4.6 Transport

	<p>Airfreight</p> <p>The magnetic fields from improperly packaged magnets can affect aircraft navigation equipment. This could lead to an accident in the worst scenario.</p> <ul style="list-style-type: none"> • Consign magnets by air freight only in packages with adequate magnetic screening.
	<p>By post</p> <p>The magnetic fields from improperly packaged magnets can cause sorting equipment to malfunction and damage sensitive goods in other packages.</p> <ul style="list-style-type: none"> • Use a generously sized package and position the magnets in the middle of the package by suitable use of filling material. • Arrange the magnets in the package so that their magnetic fields neutralise one another. • If necessary, use a steel sheet to screen off the magnetic field. • Stricter rules apply when sending magnets by airfreight: Observe the warnings in the section on “Airfreight”.
	



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