

**22**

BOLTS

siegmund®





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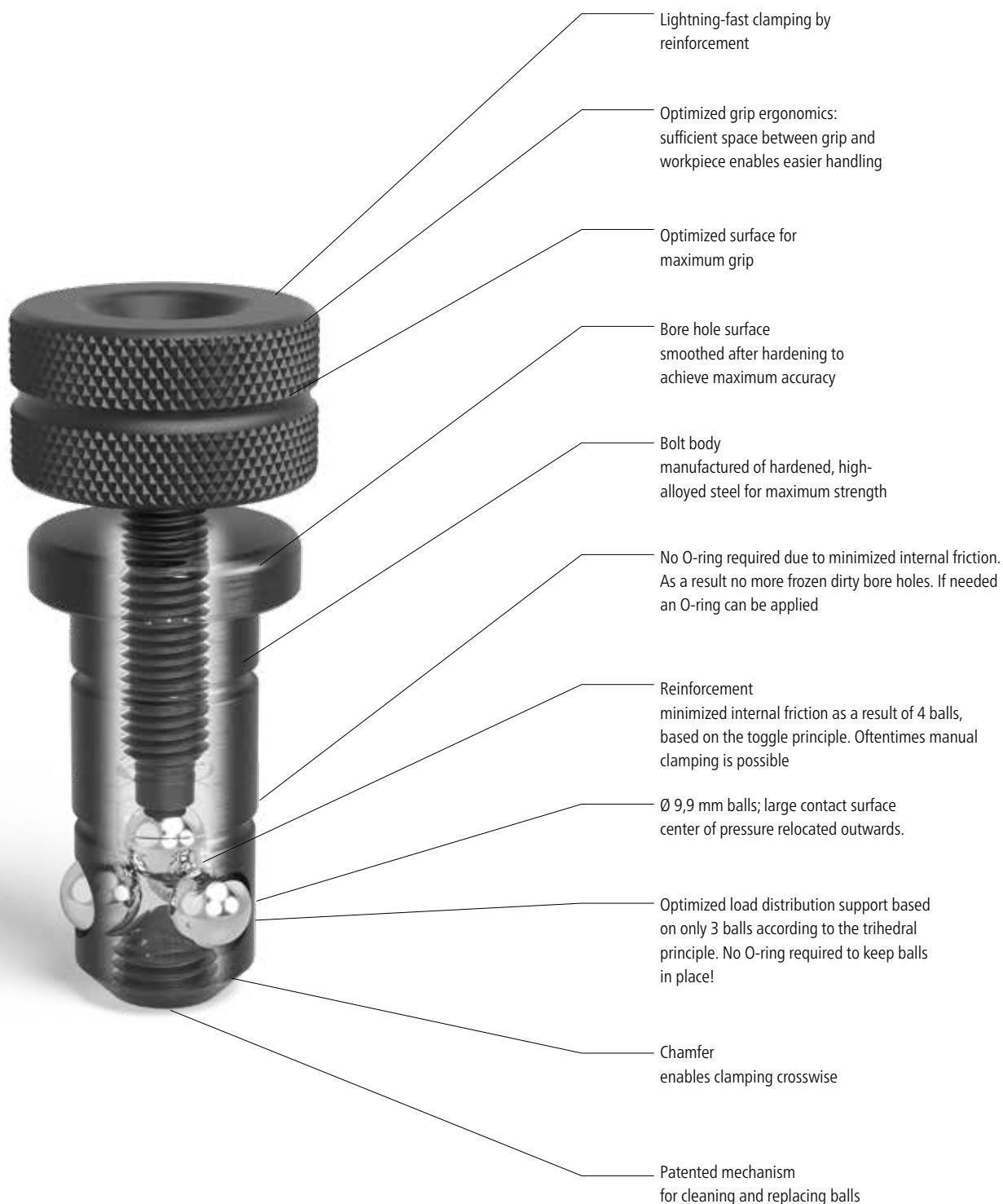
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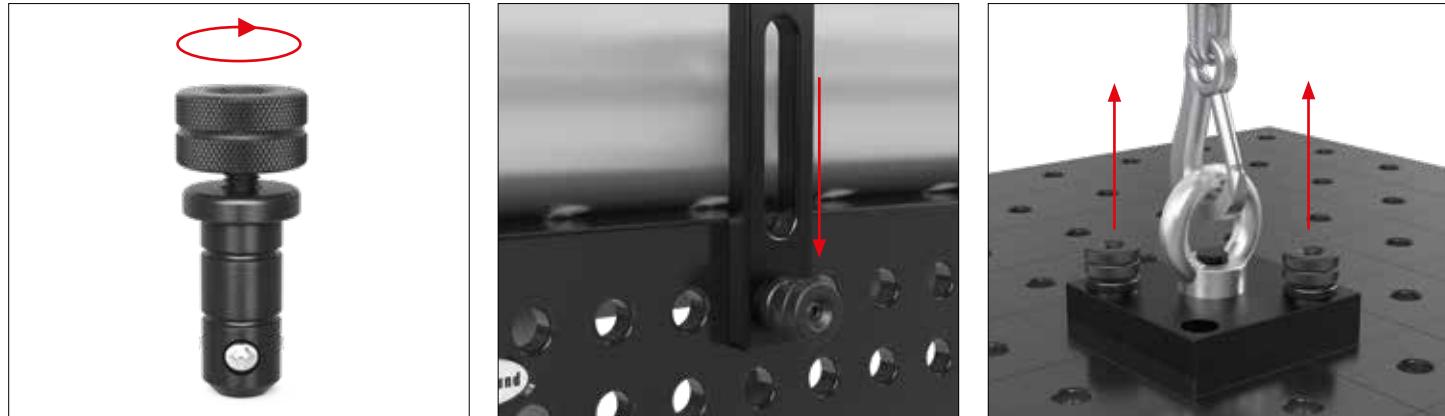


## Bolts

## Lightning-fast and optimized

Due to its well-engineered mechanism it can be fixed and released by hand within seconds.





#### TIGHTENING TORQUE (AM)

The tightening torque is the force required to fasten the bolt using a torque wrench. In order to achieve maximum clamping force, the tightening torque should not exceed the recommended guideline.

The bolt was designed to only require a low torque to reach maximum clamping force, thereby enabling simple manual clamping.

Max. AM of 220510:  $\leq 15 \text{ Nm}$

#### SHEARING FORCE (SK)

The shearing force is the force which reacts laterally to the cross-sectional area of the bolt.

Max. SK of 220510:  $\leq 130 \text{ kN}$

#### TENSILE FORCE (ZK)

The tensile force is the force created when pulling on fixed bolts.

Max. ZK of 220510:  $\leq 15 \text{ kN}$



## Fast Clamping Bolt



220510

220512



	Length: (a)	Ø: (o)	Weight:	SK:	AM:	ZK:	Item No.
<b>Fast Clamping Bolt short</b> - for clamping 2 components - burnished - with screw top	83 mm	22 mm	0,27 kg	130,00 kN	15,00 Nm	15,00 kN	2-220510 <b>36,00 £</b> •
<b>Fast Clamping Bolt long</b> - for clamping 3 components - burnished - with screw top	101 mm	22 mm	0,32 kg	130,00 kN	15,00 Nm	15,00 kN	2-220512 <b>45,00 £</b> •

SK=Shearing Force; AM=Tightening Torque; ZK=Tensile Force; • = Item produced for stock; ○ = Item produced on order; Explanations see page 84

## Universal Bolt



220532

220533

**Description:**

Burnished Universal Bolt (locking bolt), perfect connection element for Siegmund elements. It is used when elements of different material thickness are being interconnected. The clamping range of the short Universal Bolt is 33 to 39 mm. The long Universal Bolt has a clamping range of 51 to 57 mm. The large balls shift the center of pressure towards the outside, and prevent a displacement of the material due to low surface pressure, when there are high clamping forces in the direction of the bore hole.

The Universal Bolt is clamped with the integrated handwheel or with a Allen Key 14 (Item No. 280854).

This Bolt is NOT approved for combining tables and U-shaped squares!



	Length: (a)	$\varnothing$ : (o)	Weight:	SK:	AM:	ZK:	Item No.
<b>Universal Bolt, Comfort short</b> - for clamping 2 components - burnished	93 mm	22 mm	0,35 kg	150,00 kN	15,00 Nm	15,00 kN	2-220532 <b>39,00 €</b> •
<b>Universal Bolt, Comfort long</b> - for clamping 3 components - burnished	111 mm	22 mm	0,41 kg	130,00 kN	15,00 Nm	15,00 kN	2-220533 <b>47,00 €</b> •

SK=Shearing Force; AM=Tightening Torque; ZK=Tensile Force; • = Item produced for stock; O = Item produced on order; Explanations see page 84

## Fast Clamping Bolt, flat

### Description:

Flat Burnished Clamping Bolt, mainly used for clamping of oblong holes. Like the countersunk bolt, it reduces protrusion.

Ideal for cordless screwdriver with up to 25 Nm turning moment.

This Bolt is NOT approved for combining tables and U-shaped squares!



220522

220523



	Length: (a)	$\varnothing$ : (o)	Weight:	SK:	AM:	ZK:	Item No.
<b>Fast Clamping Bolt, flat short</b> - for clamping 2 components - burnished	57 mm	22 mm	0,15 kg	130,00 kN	15,00 Nm	15,00 kN	2-220522 <b>33,00 £</b> •
<b>Fast Clamping Bolt, flat long</b> - for clamping 3 components - burnished	75 mm	22 mm	0,20 kg	130,00 kN	15,00 Nm	15,00 kN	2-220523 <b>39,00 £</b> •

SK=Shearing Force; AM=Tightening Torque; ZK=Tensile Force; • = Item produced for stock; ○ = Item produced on order; Explanations see page 84

## Flush Mount Bolt

**Description:**

Flush Mount Bolt, used as a hidden connection between Siegmund elements. Its design corresponds with other connecting bolts with four balls. Its head disappears into the bore hole, to make it flush with the clamped component. The Flush Mount Bolt is not suitable for use in oblong slots.

This Bolt is NOT approved for combining tables and U-shaped squares!



220528

220529



	Length: (a)	$\varnothing$ : (o)	Weight:	SK:	AM:	ZK:	Item No.
<b>Flush Mount Bolt short</b> - for clamping 2 components - burnished	49 mm	22 mm	0,12 kg	130,00 kN	15,00 Nm	6,00 kN	2-220528 <b>33,00 €</b> •
<b>Flush Mount Bolt long</b> - for clamping 3 components - burnished	67 mm	22 mm	0,16 kg	130,00 kN	15,00 Nm	6,00 kN	2-220529 <b>41,00 €</b> •

SK=Shearing Force; AM=Tightening Torque; ZK=Tensile Force; • = Item produced for stock; O = Item produced on order; Explanations see page 84

## Positioning Bolt

### Description:

Positioning Bolt, serves as an adjustment tool for squares that only require a clamping bolt for fastening, in order to cost-effectively substitute for a second clamping bolt. In addition, various squares can be formed by spading, e.g. 90° or 45°.

This Bolt is NOT approved for combining tables and U-shaped squares!



220540



**Positioning Bolt**  
- burnished

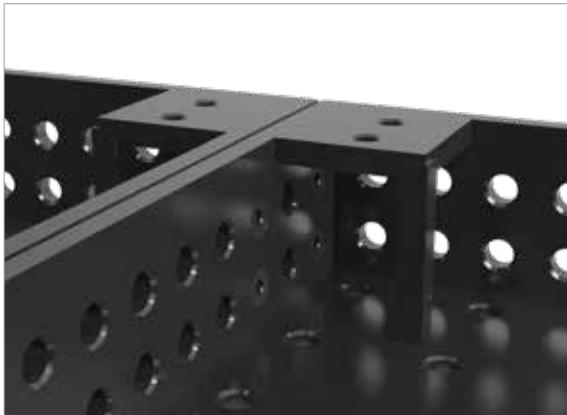
	Length: (a)	Ø: (o)	Weight:	Item No.
	56 mm	22 mm	0,21 kg	2-220540 <b>11,00 €</b> •

● = Item produced for stock; ○ = Item produced on order; Explanations see page 84

## Connecting Bolt



220560.N      220561



		Length: (a)	Ø: (o)	Weight:	SK:	AM:	ZK:	Item No.
<b>Connecting Bolt</b> - for connecting 2 components - nitrided - with Allen key	◆ N BAR	36 mm	22 mm	0,06 kg	120,00 kN	15,00 Nm	6,00 kN	2-220560.N <b>15,00 £</b> •
<b>Connecting Bolt long</b> - for connecting 3 components - burnished - with Allen key		54 mm	22 mm	0,12 kg	120,00 kN	15,00 Nm	6,00 kN	2-220561 <b>21,00 £</b> •

SK=Shearing Force; AM=Tightening Torque; ZK=Tensile Force; • = Item produced for stock; ○ = Item produced on order; Explanations see page 84

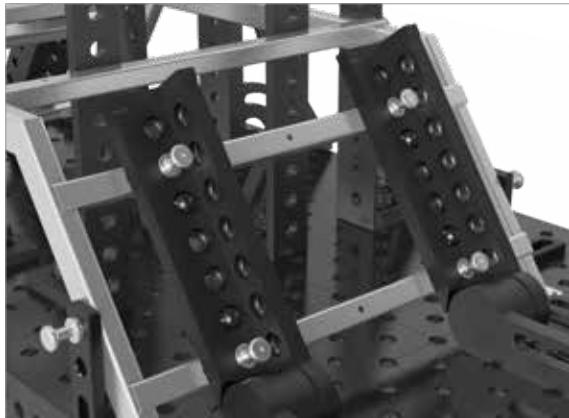
## Magnetic Clamping Bolt

### Description:

Magnetical Clamping Bolt, enables fast clamping without bolting or the use of tools. It is preferable for pressure-sensitive parts like thin sheet metal, as well as elements that cannot be resisted, e.g. enclosed sheet metal housing.



220740



### Magnetic Clamping Bolt 60

- Length of Shaft 25 mm
- Aluminum

● = Item produced for stock; ○ = Item produced on order; Explanations see page 84

	Length: (a)	Ø: (o)	Weight:	Item No.
<b>ALU</b>	60 mm	22 mm	0,06 kg	2-220740 <b>18,00 £</b> •

**ALU**

60 mm

Ø: (o)

22 mm

Weight:

0,06 kg

2-220740  
**18,00 £** •

