





RUNDÖSEN - verzinkt - DIN 7332

ROUND EYELETS - zinc plated

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height |
|---------------------|------------|--------------------------|---------------------------|---------------------|
| 111001 | 1.000 | 10,0 | 20,0 | 6,5 |
| 111002 | 1.000 | 12,0 | 24,0 | 7,8 |
| 111052 | 1.000 | 14,0 | 26,0 | 8,0 |
| 111003 | 1.000 | 16,0 | 30,0 | 8,4 |
| 111051 | 1.000 | 18,0 | 31,0 | 9,0 |
| 111004 | 1.000 | 20,0 | 36,0 | 9,0 |
| 111005 | 1.000 | 25,0 | 44,0 | 9,7 |
| 111069 | 1.000 | 36,0 | 58,0 | 13,0 |
| 111006 | 1.000 | 40,0 | 62,0 | 12,5 |



RUNDÖSEN - Messing - DIN 7332

ROUND EYELETS - brass

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height |
|---------------------|------------|--------------------------|---------------------------|---------------------|
| 111035 | 1.000 | 8,0 | 15,0 | 8,0 |
| 111007 | 1.000 | 10,0 | 20,0 | 6,5 |
| 111008 | 1.000 | 12,0 | 24,0 | 7,8 |
| 111042 | 1.000 | 14,0 | 26,0 | 8,0 |
| 111009 | 1.000 | 16,0 | 30,0 | 8,4 |
| 111044 | 1.000 | 18,0 | 31,0 | 9,0 |
| 111010 | 1.000 | 20,0 | 36,0 | 9,0 |
| 111011 | 1.000 | 25,0 | 44,0 | 9,7 |
| 111080 | 1.000 | 36,0 | 57,0 | 13,0 |
| 111012 | 1.000 | 40,0 | 62,0 | 12,5 |



RUNDÖSEN - Messing vernickelt - DIN 7332

ROUND EYELETS - brass nickel-plated

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height |
|---------------------|------------|--------------------------|---------------------------|---------------------|
| 111041 | 1.000 | 8,0 | 15,0 | 8,0 |
| 111029 | 1.000 | 10,0 | 20,0 | 6,5 |
| 111030 | 1.000 | 12,0 | 24,0 | 7,8 |
| 111043 | 1.000 | 14,0 | 25,0 | 8,0 |
| 111031 | 1.000 | 16,0 | 30,0 | 8,4 |
| 111050 | 1.000 | 18,0 | 31,0 | 9,0 |
| 111032 | 1.000 | 20,0 | 36,0 | 9,0 |
| 111033 | 1.000 | 25,0 | 44,0 | 9,7 |
| 111081 | 1.000 | 36,0 | 59,0 | 13,0 |
| 111034 | 1.000 | 40,0 | 62,0 | 12,5 |

RUNDÖSEN - NIROSTA - DIN 7332

ROUND EYELETS - inox



| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height |
|---------------------|------------|--------------------------|---------------------------|---------------------|
| 111070 | 1.000 | 8,0 | 15,0 | 6,0 |
| 111013 | 1.000 | 10,0 | 20,0 | 6,0 |
| 111014 | 1.000 | 12,0 | 24,0 | 7,0 |
| 111015 | 1.000 | 16,0 | 30,0 | 8,0 |
| 111053 | 1.000 | 18,0 | 31,0 | 9,0 |
| 111016 | 1.000 | 20,0 | 36,0 | 9,0 |
| 111017 | 1.000 | 25,0 | 44,0 | 9,7 |
| 111082 | 1.000 | 36,0 | 59,0 | 12,0 |
| 111018 | 1.000 | 40,0 | 62,0 | 12,5 |

RUNDÖSEN - Messing schwarz brüniert

ROUND EYELETS - brass black burnished



| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height |
|---------------------|------------|--------------------------|---------------------------|---------------------|
| 111108 | 1.000 | 10,0 | 20,0 | 6,0 |
| 111056 | 1.000 | 12,0 | 23,0 | 8,0 |
| 111046 | 1.000 | 16,0 | 29,0 | 8,0 |
| 111055 | 1.000 | 20,0 | 35,0 | 10,0 |
| 111045 | 1.000 | 25,0 | 43,0 | 10,0 |
| 111060 | 1.000 | 40,0 | 61,0 | 14,0 |

OVALÖSEN - verzinkt

OVAL EYELETS - zinc plated



| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height |
|---------------------|------------|--------------------------------------|---------------------|
| 111057 | 1.000 | 27,0 x 7,0 | 10,0 |
| 111027 | 1.000 | 40,0 x 10,0 | 7,8 |
| 111020 | 1.000 | 42,0 x 22,0 | 11,8 |
| 111071 | 1.000 | 60,0 x 21,0 | 13,0 |

OVALÖSEN - Messing

OVAL EYELETS - brass



| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height |
|---------------------|------------|--------------------------------------|---------------------|
| 111037 | 1.000 | 17,0 x 11,0 | 8,0 |
| 111039 | 1.000 | 22,5 x 13,5 | 8,0 |
| 111023 | 1.000 | 42,0 x 22,0 | 11,8 |



OVALÖSEN - Messing vernickelt

OVAL EYELETS - brass nickel plated

| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height |
|---------------------|------------|--------------------------------------|---------------------|
| 111038 | 1.000 | 17,0 x 11,0 | 8,0 |
| 111040 | 1.000 | 22,5 x 13,5 | 8,0 |
| 111047 | 1.000 | 42,0 x 22,0 | 12,0 |
| 111049 | 1.000 | 50,0 x 15,0 | 10,0 |



OVALÖSEN - NIROSTA

OVAL EYELETS - inox

| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height |
|---------------------|------------|--------------------------------------|---------------------|
| 111072 | 1.000 | 22,5 x 13,5 | 8,0 |
| 111024 | 1.000 | 42,0 x 22,0 | 11,8 |



OVALÖSEN - Messing schwarz brüniert

OVAL EYELETS - brass black burnished

| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height |
|---------------------|------------|--------------------------------------|---------------------|
| 111061 | 1.000 | 22,5 x 13,5 | 8,0 |



RECHTECK-SCHLITZÖSEN

RECTANGULAR EYELETS

| Art.-Nr. art.no. | VE unit | Innenmaße (mm) internal dimension | Höhe (mm) height | Material material |
|---------------------|------------|--------------------------------------|---------------------|-------------------------|
| 111021 | 1.000 | 27,0 x 8,0 | 10,5 | verzinkt zinc plated |
| 111022 | 1.000 | 38,0 x 8,0 | 8,5 | verzinkt zinc plated |
| 111025 | 1.000 | 27,0 x 8,0 | 10,5 | Messing brass |
| 111026 | 1.000 | 38,0 x 8,0 | 8,5 | Messing brass |



ZACKENÖSE einteilig

PRONG EYELET monobloc

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height | Material material |
|---------------------|------------|--------------------------|---------------------------|---------------------|---|
| 111067 | 1.000 | 10,0 | 16,0 | 7,0 | Messing vernickelt brass nickel plated |
| 111066 | 1.000 | 16,0 | 25,0 | 9,0 | Messing vernickelt brass nickel plated |
| 111065 | 1.000 | 16,0 | 25,0 | 9,0 | verzinkt zinc plated |
| 111068 | 1.000 | 40,0 | 56,0 | 14,0 | verzinkt zinc plated |

SELBSTSCHNEIDENDE RUNDÖSEN -

Messing vernickelt für Handhebelpressen

SELF-CUTTING ROUND EYELETS - brass zinc plated for hand-lever presses



| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height | Beschreibung discription |
|---------------------|------------|--------------------------|---------------------------|---------------------|-----------------------------|
| 111063 | 1.000 | 9,0 | 19,0 | 6,0 | für Typ M <i>for type M</i> |
| 111084 | 1.000 | 12,0 | 25,0 | 6,0 | für Typ M <i>for type M</i> |

HANDHEBELPRESSE - TYP M

HAND-LEVER PRESS - Type M

| Art.-Nr. art.no. | VE unit | Einsatz application |
|---------------------|------------|--|
| 171178 | 1 | zum Einsetzen von selbstschneidenden 9 mm und 12,5 mm Ösen in einem Arbeitsgang <i>for insertion of self-cutting 9 mm and 12,5 mm eyelets in one working step</i> |

Bitte wählen Sie ihren passenden Einsatz für die Presse, da die Auslieferung ohne Werkzeug erfolgt!
Please choose the suitable part for the press as we deliver without any tools!

EINSETZWERKZEUG

insertion tool

| | | |
|--------|---|---|
| 171179 | 1 | für 9 mm selbstschneidende Rundösen <i>for 9 mm self-cutting round eyelets</i> |
| 171180 | 1 | für 12,5 mm selbstschneidende Rundösen <i>for 12,5 mm self-cutting round eyelets</i> |





RUNDÖSEN mit Kragenscheibe für vollautomatische Ösenmaschinen

ROUND EYELETS with special washer for fully automated eyelet mashines

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height | Material material | |
|---------------------|------------|--------------------------|---------------------------|---------------------|-----------------------|------------------------|
| 111058 | 1.000 | 12,0 | 24,0 | 8,0 | verzinkt | zinc plated |
| 111062 | 1.000 | 12,0 | 24,0 | 8,0 | Messing vernickelt | brass nickel plated |
| 111059 | 1.000 | 16,0 | 30,0 | 8,0 | verzinkt | zinc plated |
| 111064 | 1.000 | 16,0 | 30,0 | 8,0 | Messing vernickelt | brass nickel plated |

Andere Größen und Materialien auf Anfrage lieferbar.

Other sizes and materials available on request.



VOLLAUTOMATISCHE ÖSENMASCHINE - HT - 10 HYDRAULIK

FULLY AUTOMATED EYELET MASHINE - HT - 10 Hydraulics

| Art.-Nr. art.no. | VE unit | Beschreibung discription |
|---------------------|------------|-----------------------------|
| 171250 | 1 | Ösenmaschine HT-10 |

Ausführliche Informationen finden Sie auf Seite 132.

Further information can be seen on page 132.



ALUSTEGÖSE für Plakate

STIRRUP EYELET for placards

| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Höhe (mm) height | Material material | |
|---------------------|------------|--------------------------|---------------------------|---------------------|----------------------|-----|
| 111036 | 100 | 10,0 | 18,0 | 6,0 | Alu | alu |

GUMMISPANNRING für Alustegöse - UV Beständig

RUBBER TENSIONERS for stirrup eyelet - UV Proof

| Art.-Nr. art.no. | VE unit | Abmessung (mm) dimensions | Farbe color | |
|---------------------|------------|------------------------------|----------------|------------|
| 124013 | 100 | 40,0 x 44,0 x 75,0 | hellgrau | light grey |
| 124026 | 100 | | grau | grey |

Weitere Gummispannringe finden Sie in Kapitel 2 ab Seite 55.

Further tensioners can be found in the chapter 2 from page 55 onwards.

HÜTCHEN FÜR EDSCHAVERDECKE

für 16 - 18 mm Rundösen

HEAD for Edscha canopy tops - 16 - 18 mm round eyelets



| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|------------|----------------------|
| 111097 | 100 | verzinkt |

UNTERLEGSCHLEIBEN aus Kunststoff - transparent

BACK PLATES - transparent plastic



| Art.-Nr. art.no. | VE unit | Ø Innen (mm) Ø inside |
|---------------------|------------|--------------------------|
| 111098 | 1.000 | 8,0 |
| 111099 | 1.000 | 10,0 |
| 111100 | 1.000 | 12,0 |
| 111101 | 1.000 | 14,0 |
| 111102 | 1.000 | 16,0 |
| 111108 | 1000 | 18,0 |
| 111103 | 1.000 | 20,0 |
| 111104 | 1.000 | 25,0 |
| 111105 | 1.000 | 36,0 |
| 111106 | 1.000 | 40,0 |
| 111107 | 1.000 | 42,0 x 22,0 |

EINSCHRAUBÖSE

SCREW-IN EYELET



| Art.Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Ø Außen (mm) Ø outside | Gewinde (mm) Ø thread | Farbe color |
|--------------------|------------|--------------------------|---------------------------|--------------------------|----------------|
| 111079 | 100 | 10,0 | 23,0 | 14,0 | weiß white |



CLIPÖSEN aus Polypropylen

ohne Einschlagwerkzeug einsetzbar, da die Ösen einen Schnappmechanismus besitzen, der Ober- und Unterteil beim Einpressen sicher miteinander verbindet. Sie benötigen nur ein 14 mm Lochisen.

Eigenschaften

- Temperaturbeständig von - 20°C bis + 80°C
- gute Wetterbeständigkeit
- recyclingfähig

Wir empfehlen

- 2 Unterlegscheiben bei einer Materialstärke von 0,1 - 0,3 mm
- 1 Unterlegscheibe bei einer Materialstärke von 0,3 - 0,8 mm
- über 0,8 mm:
keine Unterlegscheibe nötig

CLIP EYELETS

made of polypropylene

Usable without any insertion tools as the eyelets are fitted with a snap-on mechanism which connects the upper and the lower part while pressing. There is only the need for a 14 mm punching tool.

Features

- temperature-resistant -20°C – + 80°C
- good weather resistance
- recyclable

We suggest

- material thickness 0,1 - 0,3 mm:
two back plates
- material thickness 0,3 - 0,8 mm:
one back plate
- material thickness over 0,8 mm:
no back plate necessary



| Art.Nr. art.no. | VE unit | Ø Innen (mm) Ø inside | Farbe color | |
|--------------------|------------|--------------------------|----------------|-------------|
| 111048 | 100 | 12,0 | weiß | white |
| 111073 | 100 | 12,0 | schwarz | black |
| 111074 | 100 | 12,0 | transparent | transparent |
| 111075 | 100 | 12,0 | rot | red |
| 111076 | 100 | 12,0 | blau | blue |
| 111077 | 100 | 12,0 | gelb | yellow |
| 111078 | 100 | 12,0 | grün | green |

TECOFIX KLEMMHALTERUNG

aus glasfaserverstärktem Nylon.

Schnelle Montage - wiederverwendbar

Die Tecofix Klemmhalterungen aus Kunststoff kommen überall zum Einsatz, wo schnelle und flexibel montierbare Abspannvorrichtungen benötigt werden. Die Keilverriegelung bietet höchste Sicherheit und die einfache Montage ohne Werkzeug größte Flexibilität. Zusätzlich funktionieren sie nach dem Prinzip: "Je größer der Zug, desto stärker der Griff".

TECOFIX CLAMP

made of glassfibre-reinforced nylon.

easy installation - reusable

Tecofix clip-on eyelets and tarp clips are used for every situation where there is a need for flexible and instant securing of textiles. The wedge-lock based fixing enables a maximum of reliability and the easy installation without any tools the most flexibility. Additionally the tecofix clamp works conforming to the unbeatable 'wedge' principle: "the heavier the load, the tighter the grip."

TECOFIX MINI



Der Tecofix Mini besteht im Gegensatz zum Tecofix Midi aus 3 Teilen. Das zusätzliche dünne Plättchen dient dazu auch dünne bzw. feine Materialien, wie beispielsweise leichte Zeltstoffe oder Persenningmaterialien sicher einzuklemmen.

Unlike Tecofix Midi the Tecofix Mini consists of three parts. The additional thin platelet helps to clamp thin or fine tarpaulin materials.

- Gewicht: 12,5 g
- Zugkraft: 45 kg
- Temperaturbeständigkeit: - 30°C bis + 100°C
- Materialstärke: max. 1,5 mm

- Weight: 12,5 g
- Traction: 45 kg
- Temperature resistance: - 30°C – + 100°C
- Material thickness: max. 1,5 mm



| Art.-Nr. art.no. | VE unit | Ø Loch (mm) Ø hole | L x B x H (mm) length x width x height | Farbe color | |
|---------------------|------------|-----------------------|---|----------------|-------------|
| 111087 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | schwarz | black |
| 111088 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | weiß | white |
| 111093 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | blau | blue |
| 111094 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | rot | red |
| 111095 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | gelb | yellow |
| 111092 | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | grün | green |
| 111096* | 1 250 | 10,0 | 40,0 x 35,0 x 10,0 | transparent | transparent |

*transparent für den Indoorbereich

*transparent - for indoor usage

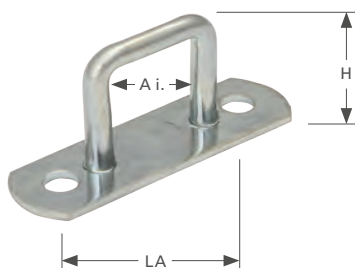
TECOFIX MIDI



- Gewicht: 20 g
- Zugkraft: 100 kg
- Temperaturbeständigkeit: - 30°C bis + 100°C
- Materialstärke: max. 5,0 mm
- Farben sind UV-stabilisiert

- Weight: 20 g
- Traction: 100 kg
- Temperature resistance: - 30°C – + 100°C
- Material thickness: max. 5,0 mm
- Colors are UV resistant.

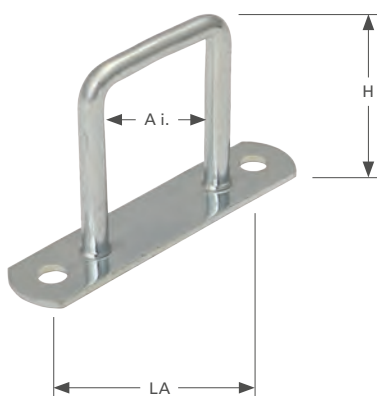
| Art.-Nr. art.no. | VE unit | Ø Loch (mm) Ø hole | L x B x H (mm) length x width x height | Farbe color | |
|---------------------|------------|-----------------------|---|----------------|-------|
| 111089 | 1 250 | 10,0 | 70,0 x 40,0 x 18,5 | schwarz | black |
| 111090 | 1 250 | 10,0 | 70,0 x 40,0 x 18,5 | weiß | white |
| 111091 | 1 250 | 10,0 | 70,0 x 40,0 x 18,5 | blau | blue |



RIEMENKRAMPE (VW) klein - verzinkt

STRAP CRAMP (VW) small - zinc plated

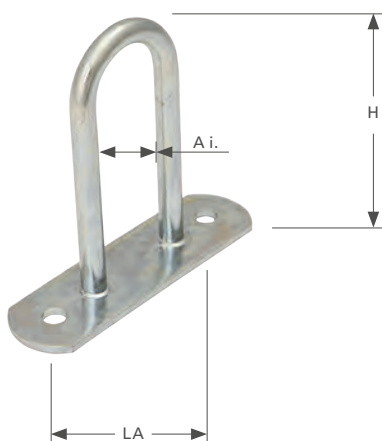
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance |
|---------------------|------------|------------------|-------------------------|--------------------------------|
| 112005 | 100 | 11,0 | 34,0 | 16,0 |
| 112006 | 100 | 15,0 | 34,0 | 16,0 |
| 112007 | 100 | 17,0 | 34,0 | 16,0 |



RIEMENKRAMPE groß - verzinkt

STRAP CRAMP large - zinc plated

| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance |
|---------------------|------------|------------------|-------------------------|--------------------------------|
| 112001 | 100 | 16,0 | 51,0 | 26,0 |
| 112002 | 100 | 20,0 | 51,0 | 26,0 |
| 112003 | 100 | 25,0 | 51,0 | 26,0 |
| 112004 | 100 | 30,0 | 51,0 | 26,0 |
| 112024 | 100 | 35,0 | 51,0 | 26,0 |



BÜGELKRAMPE Standard

TIR STAPLE STANDARD

| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) intern. Distance | Material material |
|---------------------|------------|------------------|-------------------------|-------------------------------|-------------------------|
| 112008 | 100 | 21,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112009 | 100 | 25,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112010 | 100 | 30,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112011 | 100 | 38,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112012 | 100 | 45,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112013 | 100 | 55,0 | 51,0 | 20,0 | verzinkt zinc plated |
| 112033 | 100 | 30,0 | 51,0 | 20,0 | NIROSTA inox |



RIEMENBÜGEL - Edelstahl poliert (ähnlich Lakeikrampe)

TILT CRAMP - inox (comparable to Lakei Cramp)

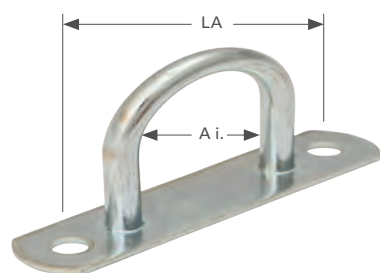
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | Stärke (mm) thickness | Ø Loch (mm) Ø hole | Breite (mm) width |
|---------------------|------------|------------------|-------------------------|--------------------------|-----------------------|----------------------|
| 112037 | 10 | 9,5 | 52,0 | 5,0 | 4,5 | 30,0 |



FLACHKRAMPE für Ovalösen 42 x 22 mm

FLAT CRAMP for oval eyelets 42 x 22 mm

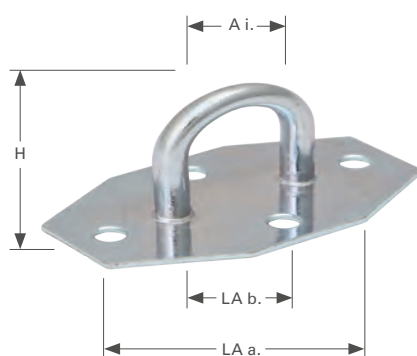
| Art.-Nr. art.no. | VE unit | H (mm) height | A i. (mm) internal distance | LA (mm) hole spacing | Material material |
|---------------------|------------|------------------|--------------------------------|-------------------------|-------------------------|
| 112027 | 100 | 16,0 | 29,0 | 57,0 | verzinkt zinc plated |



BÜGELKRAMPE

TIR STAPLE

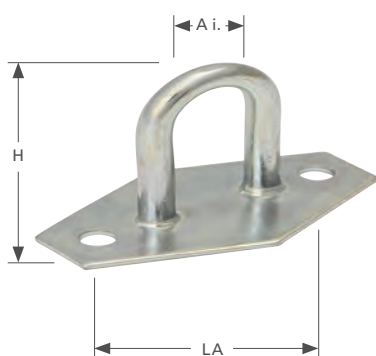
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112036 | 100 | 30,0 | 51,0 | 26,0 | verzinkt zinc plated |



BÜGELKRAMPE mit 8-eckiger Platte

TIR STAPLE with 8-sided plate

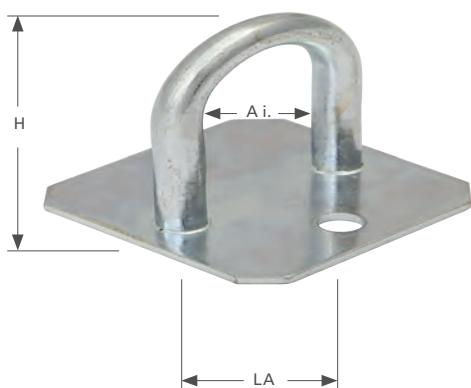
| Art.-Nr. art.no. | VE unit | H (mm) height | LA a. (mm) hole spacing a. | LA b. (mm) hole spacing b. | A i. (mm) intern. dist. | Material material |
|---------------------|------------|------------------|-------------------------------|-------------------------------|----------------------------|-------------------------|
| 112031 | 100 | 25,0 | 51,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112029 | 100 | 30,0 | 51,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112038 | 100 | 38,0 | 51,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112039 | 100 | 45,0 | 51,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112040 | 100 | 55,0 | 51,0 | 26,0 | 20,0 | verzinkt zinc plated |



BÜGELKRAMPE klein für 25 mm Ösen

TIR STAPLE small for 25 mm eyelets

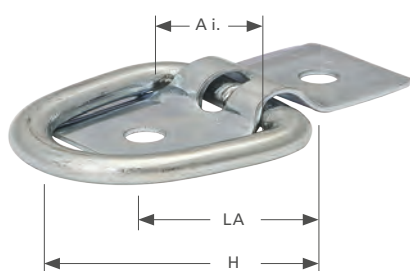
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112034 | 100 | 22,0 | 40,0 | 14,0 | verzinkt zinc plated |
| 112035 | 100 | 30,0 | 40,0 | 14,0 | verzinkt zinc plated |



BÜGELKRAMPE mit quadratischer Platte 40 x 40 mm

TIR STAPLE with quadratic plate 40 x 40 mm

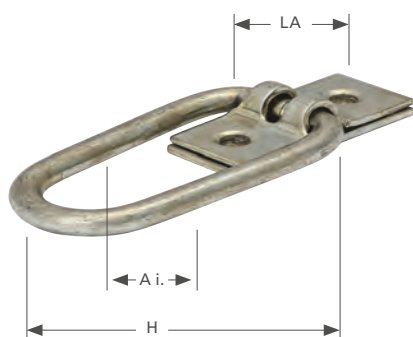
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112032 | 100 | 25,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112028 | 100 | 30,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112041 | 100 | 41,0 | 26,0 | 20,0 | verzinkt zinc plated |
| 112042 | 100 | 55,0 | 26,0 | 20,0 | verzinkt zinc plated |



BÜGELKRAMPE zum Umklappen - quer

TIR STAPLE for turning down - cross

| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112022 | 100 | 25,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112023 | 100 | 37,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112043 | 100 | 45,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112044 | 100 | 55,0 | 30,0 | 21,0 | verzinkt zinc plated |



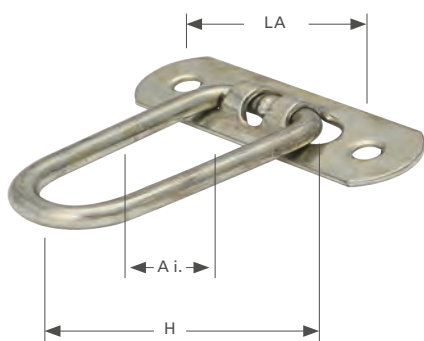
BÜGELKRAMPE zum Umklappen - quer (Zollkonform)

TIR STAPLE for turning down - cross (according to customs regulation)

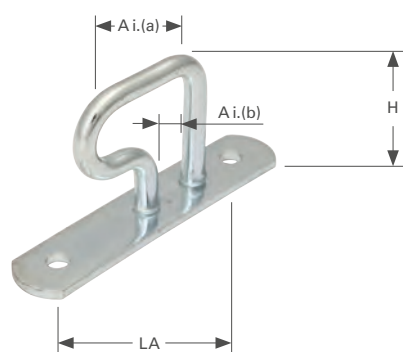
| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112018 | 100 | 25,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112019 | 100 | 37,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112020 | 100 | 45,0 | 30,0 | 21,0 | verzinkt zinc plated |
| 112021 | 100 | 55,0 | 30,0 | 21,0 | verzinkt zinc plated |

BÜGELKRAMPE zum Umklappen - Längs (Zollkonform)

TIR STAPLE for turning down - along (according to customs regulation)



| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112014 | 100 | 25,0 | 51,0 | 21,0 | verzinkt zinc plated |
| 112015 | 100 | 37,0 | 51,0 | 21,0 | verzinkt zinc plated |
| 112016 | 100 | 45,0 | 51,0 | 21,0 | verzinkt zinc plated |
| 112017 | 100 | 55,0 | 51,0 | 21,0 | verzinkt zinc plated |



BÜGELKRAMPE mit Nase

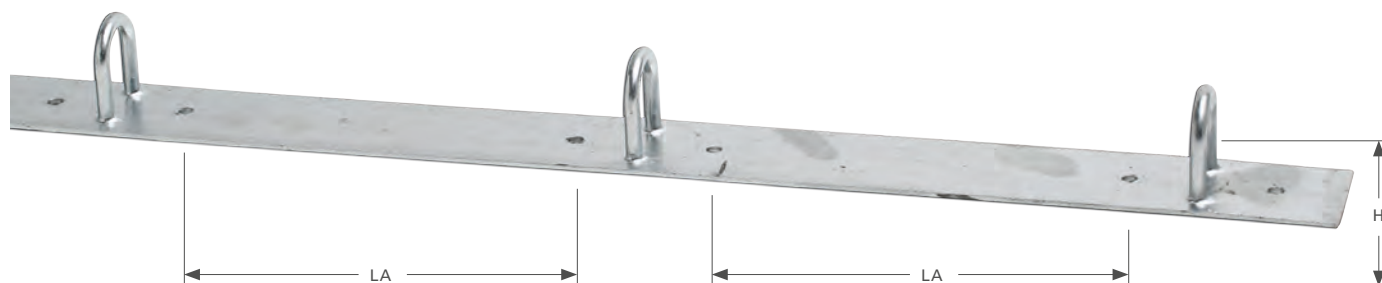
TIR STAPLE with nose

| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | A i. (mm) internal distance | Material material |
|---------------------|------------|------------------|-------------------------|--------------------------------|-------------------------|
| 112030 | 100 | 30,0 | 55,0 | a = 28,0 b = 10,0 | verzinkt zinc plated |

KRAMPENLEISTEN - feuerverzinkt

BAND OF CRAMPS - hot dip galvanized

| Art.-Nr. art.no. | VE unit | H (mm) height | LA (mm) hole spacing | Länge (mm) length |
|---------------------|------------|------------------|-------------------------|----------------------|
| 112045 | 1 | 30,0 | 200,0 | 2,0 m |
| 112046 | 1 | 30,0 | 200,0 | 2,4 m |
| 112047 | 1 | 21,0 | 200,0 | 2,4 m |
| 112048 | 1 | 30,0 | 200,0 | 2,5 m |
| 112049 | 1 | 30,0 | 200,0 | 3,0 m |





DREHVERSCHLUSS für Ovalösen 17 x 11 mm - Metall

TURNABLE STAPLE for oval eyelets 17 x 11 mm - made of metal

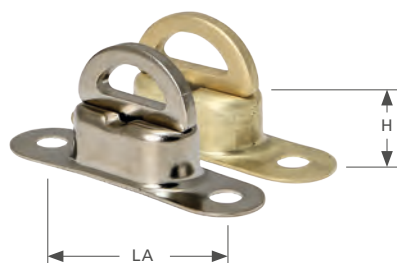
| Art.-Nr. art.no. | VE unit | Höhe (mm) height | Abstand distance | Material material | |
|---------------------|------------|---------------------|---------------------|----------------------|---------------------|
| 113069 | 100 | 8,0 | 22,0 | Messing | brass |
| 113047 | 100 | 11,0 | 22,0 | Messing | brass |
| 113068 | 100 | 8,0 | 23,5 | Messing vernickelt | brass nickel plated |
| 113048 | 100 | 11,0 | 23,5 | Messing vernickelt | brass nickel plated |



DREHVERSCHLUSS für Ovalösen 17 x 11 mm - Kunststoff

TURNABLE STAPLE for oval eyelets 17 x 11 mm - made of plastic

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | Abstand distance | Farbe color | |
|---------------------|------------|---------------------|---------------------|----------------|-------|
| 113008 | 100 | 8,0 | 22,0 | grau | grey |
| 113007 | 100 | 8,0 | 22,0 | weiß | white |
| 113011 | 100 | 8,0 | 22,0 | schwarz | black |



DREHVERSCHLUSS für Ovalösen 22,5 x 13,5 mm - Metall

TURNABLE STAPLE for oval eyelets 22,5 x 13,5 mm - made of metal

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | LA (mm) hole spacing | Material material | |
|---------------------|------------|---------------------|-------------------------|----------------------|---------------------|
| 113049 | 100 | 11,0 | 30,5 | Messing | brass |
| 113051 | 100 | 11,0 | 34,0 | Messing | brass |
| 113052 | 100 | 11,0 | 30,5 | Messing vernickelt | brass nickel plated |
| 113050 | 100 | 11,0 | 34,0 | Messing vernickelt | brass nickel plated |
| 113070 | 100 | 11,0 | 34,0 | NIROSTA | inox |



DREHVERSCHLUSS für Ovalösen 22,5 x 13,5 mm - Kunststoff

TURNABLE STAPLE for oval eyelets 22,5 x 13,5 mm - made of plastic

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | LA (mm) hole spacing | Farbe color | |
|---------------------|------------|---------------------|-------------------------|----------------|-------|
| 113005 | 100 | 11,0 | 32,0 | grau | grey |
| 113006 | 100 | 11,0 | 32,0 | weiß | white |
| 113012 | 100 | 11,0 | 32,0 | schwarz | black |



DREHVERSCHLUSS für Ovalösen 42 x 22 mm - Kunststoff

TURNABLE STAPLE for oval eyelets 42 x 22 mm - made of plastic

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | LA (mm) hole spacing | Farbe color | |
|---------------------|------------|---------------------|-------------------------|----------------|-------|
| 113004 | 100 | 24,0 | 51,0 | grau | grey |
| 113084 | 100 | 24,0 | 51,0 | schwarz | black |
| 113080 | 100 | 24,0 | 51,0 | weiß | white |
| 113079 | 100 | 24,0 | 53,0 | grau | grey |



DREHVERSCHLUSS für Ovalösen
42 x 22 mm - mit NIROSTAFEDER

TURNABLE STAPLE for oval eyelets 42 x 22 mm - with INOX spring

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | LA (mm) hole spacing | Ausführung design | Material material |
|---------------------|------------|---------------------|-------------------------|---|-------------------------------------|
| 113001 | 100 | 19,0 | 51,0 | hoch high | Stahl verzinkt steel zinc plated |
| 113066 | 100 | 12,0 | 51,0 | niedrig low | Stahl verzinkt steel zinc plated |
| 113002 | 100 | 19,0 | 51,0 | hoch mit umklapp- barem Bügel high with foldable shackle | Stahl verzinkt steel zinc plated |
| 113020 | 100 | 19,0 | 51,0 | hoch high | NIROSTA Inox |



DREHVERSCHLUSS „UNIVERSAL“ für Ovalösen

42 x 22 mm und Rundösen Ø 40 mm

TURNABLE STAPLE „UNIVERSAL“ for 42 x 22 mm oval eyelets and Ø 40 mm round eyelets

| Art.-Nr. art.no. | VE unit | Höhe (mm) height | LA (mm) hole spacing | Farbe color |
|---------------------|------------|---------------------|-------------------------|----------------|
| 113167 | 100 | | 51,0 | grau grey |

SCHNELLVERSCHLUSS

für die „absperrbare“ Plane - einfach, schnell, sicher

So funktioniert es:

- Platte auf festem Untergrund montieren
- Die, in einer Plane verarbeitete, 25 mm Öse darauf schieben
- Schlüssel ansetzen und drehen – die beweglichen Plastikteile werden auseinander gepresst und fixieren die Öse
- Nur mit dem passenden Schlüssel kann diese Verbindung wieder gelöst werden



QUICK-FASTENER for the „lockable“ tarpaulin - easy, fast, safe

That's how it works:

- Mount plate on a firm surface
- Place the 25 mm eyelet on it (eyelet is already mounted on the tarpaulin)
- Insert the key and turn - the movable plastic parts are pressed apart and fix the eyelet
- Only with the matching key can this connection be released again

| Art.-Nr. art.no. | VE unit | Material material | Farbe color |
|---------------------|------------|-----------------------|----------------|
| 113046 | 100 | Kunststoff plastic | weiß white |

Werkzeug

Tool

| | | |
|--------|---|---|
| 113056 | 1 | Schlüssel für Schnellverschluss key for quick fastener |
|--------|---|---|



MINAX SCHNELLVERSCHLUSS - Oberteil

MINAX QUICK FASTENER - upper part

| Art.-Nr. art.no. | VE unit | Ø (mm) Ø | Höhe (mm) height | Farbe color | |
|---------------------|------------|-------------|---------------------|----------------|----------|
| 113013 | 100 | 23,0 | 11,0 | weiß | white |
| 113072 | 100 | 23,0 | 11,0 | schwarz | black |
| 113073 | 100 | 23,0 | 11,0 | blau | blue |
| 113075 | 100 | 23,0 | 11,0 | weinrot | wine red |
| 113074 | 100 | 23,0 | 11,0 | grau | grey |

MINAX SCHNELLVERSCHLUSS - Unterteil

MINAX QUICK FASTENER - lower part

| Art.-Nr. art.no. | VE unit | Ø (mm) Ø | Höhe (mm) height | Farbe color | |
|---------------------|------------|-------------|---------------------|----------------|----------|
| 113014 | 100 | 22,0 | 22,0 | weiß | white |
| 113076 | 100 | 22,0 | 22,0 | schwarz | black |
| 113077 | 100 | 22,0 | 22,0 | blau | blue |
| 113078 | 100 | 22,0 | 22,0 | weinrot | wine red |
| 113071 | 100 | 22,0 | 22,0 | grau | grey |

EINSETZWERKZEUG

insertion tool

| | | |
|--------|---|--|
| 113003 | 1 | Montageschlüssel für Minax-Schnellverschlüsse installation wrench for Minax-quick fasteners |
|--------|---|--|

SCHRAUBEN für Minax-Schnellverschlüsse

SCREWS for Minax-quick fasteners



| Art.-Nr. art.no. | VE unit | Größe size | Beschreibung discription | Material Material |
|---------------------|------------|---------------|---|---|
| 113015 | 100 | 4,0 x 8,0 | Maschinenschraube mit Scheibe & Mutter, metrisch machine screw with washer & nut, metric | Messing vernickelt brass nickel plated |
| 113016 | 100 | 4,0 x 12,0 | Maschinenschraube mit Scheibe & Mutter, metrisch machine screw with washer & nut, metric | Messing vernickelt brass nickel plated |
| 113017 | 100 | 4,0 x 20,0 | Maschinenschraube mit Scheibe & Mutter, metrisch machine screw with washer & nut, metric | Messing vernickelt brass nickel plated |
| 113018 | 100 | 4,3 x 25,0 | Holzschraube mit Scheibe wood screw with washer | Messing vernickelt brass nickel plated |
| 113019 | 100 | 3,5 x 28,0 | Edelstahlschraube inox screw | NIROSTA Inox |



DRUCKKNÖPFE - Einzelteile Messing vernickelt

PUSH BUTTONS - spare parts brass - zinc plated

| Art.-Nr. <i>art.no.</i> | VE <i>unit</i> | Beschreibung <i>discription</i> | |
|----------------------------|-------------------|------------------------------------|--------------------|
| 113033 | 1 100 | nur Kappe | <i>only cap</i> |
| 113036 | 1 100 | nur Öse | <i>only eyelet</i> |
| 113034 | 1 100 | nur Kugel | <i>only bullet</i> |
| 113035 | 1 100 | nur Niete | <i>only rivet</i> |
| 113037 | 1 100 | nur Schraube | <i>only screw</i> |

Verschlüsse
Fasteners



DURABLE DOT - OBERTEIL

DURABLE DOT - UPPER PART

| Art.-Nr. <i>art.no.</i> | VE <i>unit</i> | Farbe <i>color</i> | |
|----------------------------|-------------------|-----------------------|----------------------|
| 113087 | 1 100 | altmessing | <i>antique brass</i> |
| 113088 | 1 100 | brüniert | <i>burnished</i> |
| 113089 | 1 100 | schwarz | <i>black</i> |

LOXX



LOXX® – der Knopf mit „Köpfchen“

Das Original – MADE IN GERMANY!
Ein Verschluss mit patentierter Technik,
den so leicht nichts lösen kann, außer
man betätigt den dafür vorgesehenen
Mechanismus.

Der LOXX®-Verschluss steht mit seiner
ausgefeilten Technik für:

- Einfache und schnelle Montage auf nahezu jedem Material
- Langlebigkeit aufgrund hochwertigster Rohstoffe
- Sicherheit – hält Zugkräften von über 1.000 N locker stand
- Vielseitigkeit und Individualität – diverse Materialien, kundenspezifische Entwicklungen und Ausführungen

Bitte beachten Sie, dass alle LOXX®-Verschlüsse (Ober- und Unterteil) standardmäßig mit einer kurzen Scheibe für einen Klemmbereich bis 3 mm ausgerüstet sind.

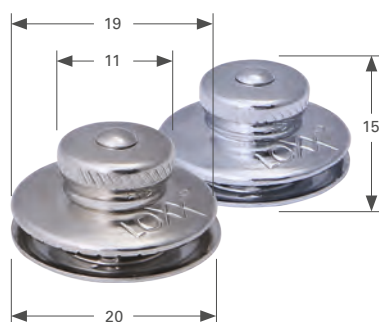
LOXX® – the smartest Button

An original – MADE IN GERMANY!
A system not easy releasable, without
activating the right mechanism.

The patented LOXX®-fastener stands for:

- easy and quick installation on nearly every kind of material
- Long Life Cycle based on high end raw materials
- Safety – withstands tensile forces above 1.000 N
- Variety and Individuality – different surfaces and finishes, in addition to customer-specific developments and designs

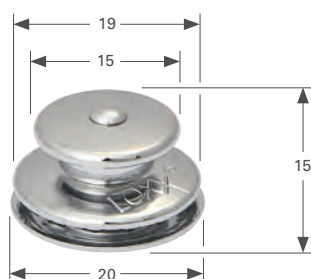
Please note: all LOXX®-Fasteners comes standard with a short washer for a clamping zone up to 3 mm.



OBERTEIL - Kleiner Kopf mit aufgedrehter Scheibe

UPPER PART - small head with washer

| Art.-Nr. art.no. | VE unit | Material material | |
|---------------------|----------------|-----------------------------|-----------------------------|
| 113093 | 1 50 1.000 | Messing - vernickelt | brass - nickel plated |
| 113094 | 1 50 1.000 | Messing - verchromt | brass - chrome plated |
| 113168 | 1 50 1.000 | Messing - schwarz verchromt | brass - black chrome plated |
| 113169 | 1 50 1.000 | Messing - Altmessing | brass - antique brass |
| 113170 | 1 50 1.000 | Messing - Altkupfer | brass - antique copper |



OBERTEIL - Standard mit aufgedrehter Scheibe

UPPER PART - large head with washer

| Art.-Nr. art.no. | VE unit | Material material | |
|---------------------|----------------|---------------------------------|-----------------------------|
| 113040 | 1 50 1.000 | Messing - vernickelt | brass - nickel plated |
| 113099 | 1 50 1.000 | Messing - verchromt | brass - chrome plated |
| 113111 | 1 50 1.000 | Messing - schwarz verchromt | brass - black chrome plated |
| 113120 | 1 50 1.000 | Messing - Altmessing | brass - antique brass |
| 113121 | 1 50 1.000 | Messing - Altkupfer | brass - antique copper |
| 113092 | 1 50 1.000 | Edelstahl | stainless steel |
| 113171 | 1 50 1.000 | Messing - nickelfrei versilbert | brass - silver nickel free |
| 113171 | 1 50 1.000 | Messing - vergoldet | brass - gold plated |



SONDEREDITION " DER ORIGINALKNOPF" -

ein altes Schätzchen neu aufgelegt

Special Edition - " Der Originalknopf" - an old babe new reissued

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113173 | 1 50 1.000 | Messing - verchromt brass - chrome plated |



HYBRID – die perfekte Wahl für den Marinebereich

HYBRID – the perfect choice for maritime design

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113174 | 1 50 1.000 | Edelstahl, Gewinde: Messing vernickelt stainless steel, thread: brass nickel plated |



TOTENKOPF

SKULL

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113118 | 1 50 1.000 | Messing - Gunmetal brass - gunmetal |



KOMPASS - Sonderedition für alle Marinefans

COMPASS - special edition for all maritime fans

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|---|
| 113039 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |



„VICTORIA“ & „VICTOR“

„VICTORIA“ & „VICTOR“

| Art.-Nr. art.no. | VE unit | Ausführung design | Material material |
|---------------------|----------------|----------------------|---|
| 113175 | 1 50 1.000 | VICTORIA | Messing - Altmessing brass - antique brass |
| 113176 | 1 50 1.000 | VICTOR | Messing - Altmessing / schwarz brass - antique brass / black |



„MARY“ & „HENRY“

„MARY“ & „HENRY“

| Art.-Nr. art.no. | VE unit | Ausführung design | Material material |
|---------------------|----------------|----------------------|--|
| 113177 | 1 50 1.000 | MARY | Messing - Altnickel brass - antique nickel plated |
| 113178 | 1 50 1.000 | HENRY | Messing - Altnickel / schwarz brass - antique nickel plated / black |

LOXX

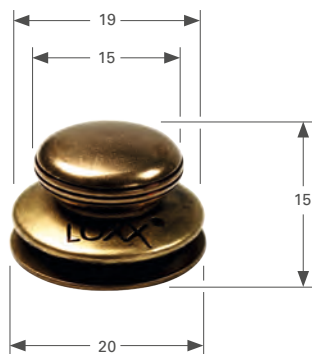
**OBERTEIL - XL** Ausführung

mit langer Scheibe

für einen Klemmbereich bis 6 mm

UPPER PART - XL edition with long washer for a clamping area up to 6 mm

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113179 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113180 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113181 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |
| 113182 | 1 50 1.000 | Messing - Altmessing brass - antique brass |
| 113183 | 1 50 1.000 | Messing - Altkupfer brass - antique copper |

**OBERTEIL - HD** (HEAVY DUTY)

mit veränderter Innenmechanik

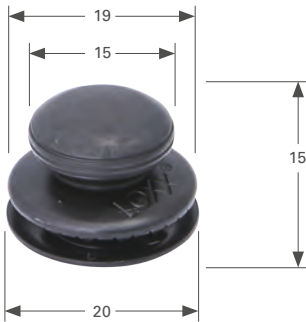
für extreme Belastungen

UPPER PART - HD (HEAVY DUTY) with modified internal mechanic for extreme loads

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|---|
| 113184 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113185 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113186 | 1 50 1.000 | Edelstahl stainless steel |

Die richtige Variante war nicht dabei? Kein Problem, Sie erhalten den LOXX® HD in allen Oberflächen und Ausführungen gerne auf Anfrage!

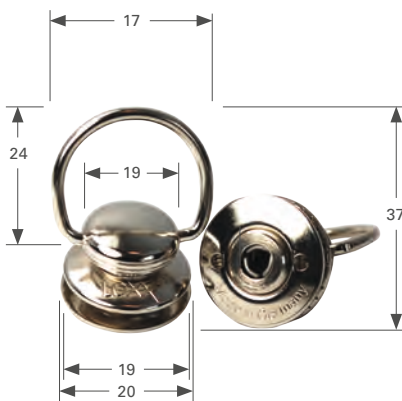
you did not find the suitable article? No Problem, on request the LOXX® HD is available in every surface and design!



OBERTEIL - glatter Kopf mit aufgedrehter Scheibe

UPPER PART - smart head with screwed on basic washer

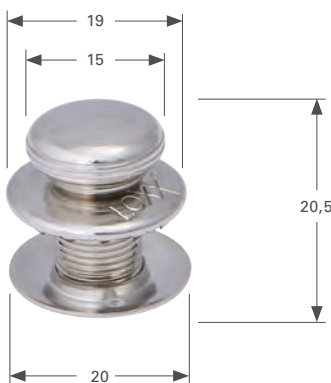
| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113187 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113188 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113122 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |
| 113189 | 1 50 1.000 | Messing - Altmessing brass - antique brass |
| 113190 | 1 50 1.000 | Messing - Altkupfer brass - antique copper |



OBERTEIL - glatter Kopf mit Bügel und aufgedrehter Scheibe

UPPER PART - large and ringed head with screwed on basic washer

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113191 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113123 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |



OBERTEIL - glatter Kopf mit 10 mm Schaft - langes Gewinde mit aufgedrehter Scheibe

UPPER PART - smart head with **10 mm shank - extended thread** with screwed on basic washer

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113108 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113126 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113127 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |

LOXX

OBERTEIL - glatter Kopf
mit **10 mm Schaft - kurzes Gewinde**
mit aufgedrehter Scheibe

UPPER PART - smart head with **10 mm shank - short thread** with screwed on basic washer



| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113192 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113125 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |

Kleiner Knopf - Großer Werbeträger

Nutzen Sie die Möglichkeit Ihr höchstesigenes LOXX® - Ober-
teil nach Ihren Vorstellungen zu gestalten und zu individuali-
sieren. Mit Ihrem Logo wird das LOXX®- Oberteil der perfekte
Werbeträger mit unverwechselbarem Wiedererkennungswert. Mindestabnahmemenge: 3.000 Stück.

- gestanztes Logo - in fast allen Oberflächen, auch in
Edelstahl und Hybrid möglich.
- gelastertes Logo - jede Oberfläche.
- erhabenes Logo - nur als Zinkdruckkappe möglich.
- Fragen Sie uns nach den Optionen und den
Abnahmemengen. Wir beraten Sie gerne!

small button - huge advertising impact

Benefit from the opportunity to create and customize your own
personal LOXX® - upper part. With your company logo, the
LOXX® upper part becomes the perfect advertising with dis-
tinctive recognition value. Minimum purchase quantity: 3,000
pieces.

- pressed logo - possible in nearly all finishes, also stainless
steel and hybrid.
- lasered logo - possible in all finishes.
- embossed logo - as a zinc die-cast cap.
- Please ask for the possibilities and quantities.
We will be pleased to give you advise.



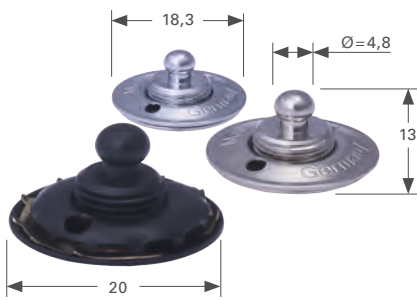
SCHEIBE - mit verlängertem Gewinde für einen Klemmbereich bis 4 mm

WASHER - with elongated thread for a clamping area up to 4 mm

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113115 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113193 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113194 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |
| 113195 | 1 50 1.000 | Messing - Altmessing brass - antique brass |
| 113196 | 1 50 1.000 | Messing - Altkupfer brass - antique copper |

Auf Anfrage auch in anderen Ausführungen wie beispielsweise: Messing gunmetal, Messing vergoldet oder Altni-
ckel schwarz lieferbar.

On request other finishes available for example: brass gunmetal, brass gold plated or antique nickel black.



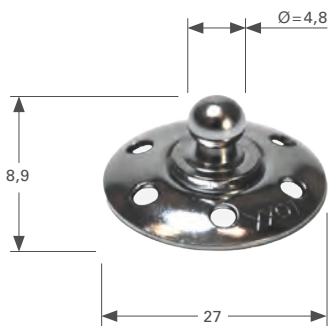
UNTERTEIL - für Stoff, Leder und Plane mit aufgedrehter Scheibe

LOWER PART - for fabrics with washer

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|---|
| 113041 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113104 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113117 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |
| 113197 | 1 50 1.000 | Messing - Altmessing brass - antique brass |
| 113198 | 1 50 1.000 | Messing - Altkupfer brass - antique copper |
| 113199 | 1 50 1.000 | Messing - nickelfrei versilbert brass - silver nickel free |
| 113200 | 1 50 1.000 | Messing - vergoldet brass - gold plated |

Übrigens: Das Stoffunterteil hat nun einen feststehenden Zackenring.

by the way: the lower part for fabrics has a non-movable toothed ring.



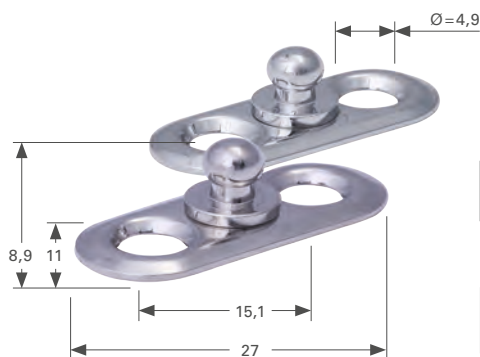
UNTERTEIL - zum Annähen

LOWER PART - for Sewing

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|---|
| 113201 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |

Um die Zugkraftfestigkeit weiterhin zu gewährleisten, muss die Naht entsprechend gefertigt sein. Unsere Empfehlung für die Verarbeitung: Tenara Faden (S. 146) von Amann.

To ensure the tensile forces the seam needs to be manufactured adequate. Our suggestion: Tenara thread (page 146).



UNTERTEIL - Ovale Platte Standard zum Nieten und Schrauben

LOWER PART - oval plate standard for rivets and screw fixing

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|----------------|--|
| 113095 | 1 50 1.000 | Messing - vernickelt brass - nickel plated |
| 113098 | 1 50 1.000 | Messing - verchromt brass - chrome plated |
| 113116 | 1 50 1.000 | Messing - schwarz verchromt brass - black chrome plated |
| 113202 | 1 50 1.000 | Messing - vergoldet brass - gold plated |

**UNTERTEIL - Ovale Platte TBR**

zum Nieten und Schrauben - der perfekte Ersatz für sperrige Drehverschlüsse

LOWER PART - oval plate „TBR“ for rivets and screw fixing - an alternative for bulky turnable fasteners

| Art.-Nr. art.no. | VE unit | Länge (mm) length | LA (mm) hole spacing | Ø - Bohrung (mm) Ø - diameter | Material material |
|---------------------|----------------|----------------------|-------------------------|----------------------------------|---|
| 113095 | 1 50 1.000 | 34,2 | 22,3 | 4,9 | Messing - vernickelt brass - nickel plated |

**UNTERTEIL - Platte rund**

ohne Bohrung zum Kleben

LOWER PART - round plate without drilling for glue fixing

| Art.-Nr. art.no. | VE unit | Ø Unterteil (mm) Ø lower part | Höhe (mm) height | Materialstärke (mm) thickness | Material material |
|---------------------|----------------|----------------------------------|---------------------|----------------------------------|------------------------------|
| 113151 | 1 50 1.000 | 24,0 | 9,0 | 1,6 | Edelstahl stainless steel |

**UNTERTEIL - Platte rund**

mit Bohrung zum Anschrauben und Nieten

LOWER PART - round plate with drilling for rivets and screw fixing

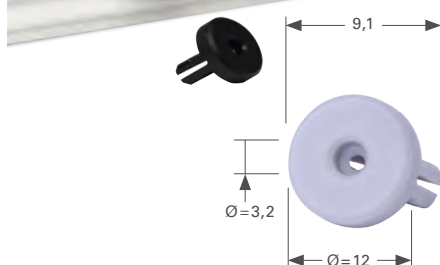
| Art.-Nr. art.no. | VE unit | LA (mm) hole spacing | Ø - Bohrung (mm) drilling | Material material |
|---------------------|----------------|-------------------------|------------------------------|------------------------------|
| 113096 | 1 50 1.000 | 16,0 | 4,9 | Edelstahl stainless steel |

**SCHEIBENRAHMENCLIP***WINDSHIELD CLIP*

| Art.-Nr. art.no. | VE unit | Außenmaß (mm) outer dimension | Material material |
|---------------------|----------------|----------------------------------|---|
| 113160 | 1 50 1.000 | 21,0 | Edelstahl - Messing vernickelt stainless steel - brass nickel plated |
| 113113 | 1 50 1.000 | 24,0 | Edelstahl - Messing vernickelt stainless steel - brass nickel plated |

**DÜBEL - für Kederleiste**

für LOXX® Schrauben 10 oder 12 mm

DOWEL - for keder rails for LOXX® screws 10 or 12 mm

| Art.-Nr. art.no. | VE unit | Ø-Außen (mm) Ø-outer | Ø-Bohrung (mm) Ø-drilling | Länge (mm) length | Material material |
|---------------------|----------------|-------------------------|------------------------------|----------------------|---|
| 113114 | 1 50 1.000 | 12,0 | 3,2 | 9,1 | Kunststoff - schwarz plastic - black |

UNTERTEILE zum Nieten

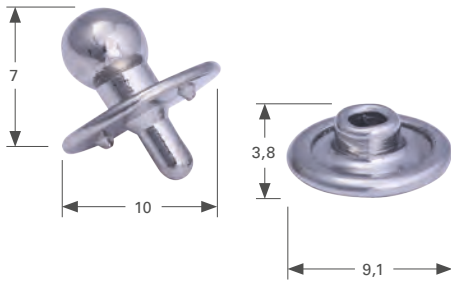
für einen max. Klemmbereich von 2 mm

LOWER PARTS for riveting for a max. clamping area up to 2 mm

KUGELNIET

Ball rivet

| Art.-Nr. art.no. | VE unit | Ø-Platte (mm) Ø-plate | Kopfhöhe (mm) head height | Material material |
|---------------------|----------------|--------------------------|------------------------------|--|
| 113161 | 1 50 1.000 | 10,0 | 7,0 | Zinkdruckguss - vernickelt <i>zinc die - cast - nickel plated</i> |
| 113203 | 1 50 1.000 | 10,0 | 7,0 | Zinkdruckguss - Altmessing <i>zinc die - cast - antique brass</i> |
| 113204 | 1 50 1.000 | 10,0 | 7,0 | Zinkdruckguss - brüniert <i>zinc die - cast - burnished</i> |



NIETPLÄTTCHEN für Kugelriet

RIVET PLATELET for ball rivet

| Art.-Nr. art.no. | VE unit | Ø-Außen (mm) Ø-outer | Höhe (mm) head height | Material material |
|---------------------|----------------|-------------------------|--------------------------|--|
| 113139 | 1 50 1.000 | 9,1 | 3,8 | nickelfrei Silber <i>silver nickel free</i> |
| 113205 | 1 50 1.000 | 10,0 | 7,0 | Zinkdruckguss - Altmessing <i>zinc die - cast - antique brass</i> |
| 113206 | 1 50 1.000 | 10,0 | 7,0 | Zinkdruckguss - brüniert <i>zinc die - cast - burnished</i> |

ROHRSCHELLE - offen für LOXX® Schrauben M6 x 8 mm

PIPE CLAMP - open for LOXX® screws M6 x 8 mm



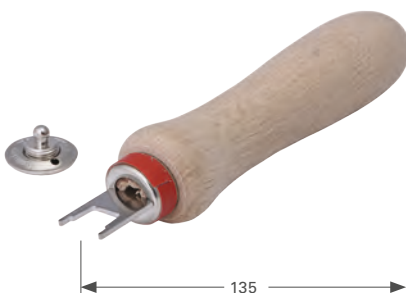
| Art.-Nr. art.no. | VE unit | Ø (mm) Ø | Material material |
|---------------------|----------------|-------------|-------------------------------------|
| 113207 | 1 50 1.000 | 22,0 | Edelstahl <i>stainless steel</i> |
| 113208 | 1 50 1.000 | 25,0 | Edelstahl <i>stainless steel</i> |
| 113209 | 1 50 1.000 | 30,0 | Edelstahl <i>stainless steel</i> |

Komplett aus Edelstahl, bestehend aus: Band, Mutter und Schraube.

Made entirely of stainless steel, consists of band, nut and screw.

SCHLÜSSEL - GROSS MIT HOLZGRIFF, für Ober- und Unterteil

WRENCH - big with wooden handle, for upper and lower parts



| Art.-Nr. art.no. | VE unit | Länge (mm) length | Material material |
|---------------------|------------|----------------------|--|
| 113107 | 1 | 135,0 | Stahl vernickelt - Holz <i>steel nickel plated - wood</i> |

**SCHLÜSSEL** - Klein, verwendbar für Ober-und Unterteil*WRENCH - small, for upper and lower parts*

| Art.-Nr. art.no. | VE unit | Länge (mm) length | Material material |
|---------------------|------------|----------------------|---|
| 113212 | 1 | 32,0 | Stahl vernickelt steel nickel plated |

**LOCHEISEN** - 10 mm*PUNCHING TOOL - 10 mm*

| Art.-Nr. art.no. | VE unit |
|---------------------|------------|
| 171008 | 1 |

**AUFSATZ** - Elektrobohrer für Standardscheibe*TOOL - ELECTRIC SCREW DRIVER FOR STANDARD WASHER*

| Art.-Nr. art.no. | VE unit |
|---------------------|------------|
| 171188 | 1 |

**KLEINES LOCHWERKZEUG***SMALL PUNCHING TOOL*

| Art.-Nr. art.no. | VE unit | Material material |
|---------------------|------------|--|
| 171271 | 1 | Stahl / Edelstahl steel / stainless steel |

**STEMPEL** für Nietunterteil, für Hand-Spindelpresse*DIE - for rivetable underparts, for handpress*

| Art.-Nr. art.no. | VE unit | Beschreibung diskription |
|---------------------|------------|-----------------------------|
| 171189 | 1 | Oberstempel upper die |
| 171270 | 1 | Unterstempel lower die |



METRISCHE SCHRAUBEN

Schlüsselweite 9 mm, ohne Mutter

METRIC SCREWS - wrench size 9 mm, without nut

| Art.-Nr. art.no. | VE unit | Gewinde thread | Höhe (mm) height | Material material |
|---------------------|----------------|-------------------|---------------------|---|
| 113128 | 1 50 1.000 | M4 | 6,0 | Edelstahl <i>stainless steel</i> |
| 113129 | 1 50 1.000 | M4 | 12,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113130 | 1 50 1.000 | M5 | 6,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113131 | 1 50 1.000 | M5 | 6,0 | Messing - verchromt <i>brass - chrome plated</i> |
| 113102 | 1 50 1.000 | M5 | 10,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113105 | 1 50 1.000 | M5 | 10,0 | Messing - verchromt <i>brass - chrome plated</i> |
| 113132 | 1 50 1.000 | M5 | 10,0 | Messing - schwarz verchromt <i>brass - black chrome plated</i> |
| 113133 | 1 50 1.000 | M5 | 10,0 | Edelstahl <i>stainless steel</i> |
| 113137 | 1 50 1.000 | M5 | 12,0 | Edelstahl <i>stainless steel</i> |
| 113136 | 1 50 1.000 | M5 | 14,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113138 | 1 50 1.000 | M5 | 16,0 | Messing vernickelt <i>brass - nickel plated</i> |
| 113157 | 1 50 1.000 | M5 | 16,0 | Edelstahl <i>stainless steel</i> |
| 113158 | 1 50 1.000 | M5 | 20,0 | Edelstahl <i>stainless steel</i> |
| 113112 | 1 50 1.000 | M5 | 22,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113159 | 1 50 1.000 | M5 | 25,0 | Edelstahl <i>stainless steel</i> |

Mit erhabenem Kopf - 10,6 mm

With elevated head - 10,6 mm

| | | | | |
|--------|----------------|----|------|---|
| 113134 | 1 50 1.000 | M5 | 10,0 | Messing - vernickelt <i>brass - nickel plated</i> |
| 113135 | 1 50 1.000 | M5 | 10,0 | Messing - verchromt <i>brass - chrome plated</i> |
| 113213 | 1 50 1.000 | M5 | 10,0 | Messing - schwarz verchromt <i>brass - black chrome plated</i> |



MUTTER - metrisch - Schlüsselweite 9 mm

NUT for metric screws - wrench size 9 mm

| Art.-Nr. art.no. | VE unit | Gewinde thread | Material material |
|---------------------|----------------|-------------------|----------------------|
| 113148 | 1 50 1.000 | M5 | Edelstahl inox |



SCHRAUBEN - für Blech, Holz, Kunststoff - Schlüsselweite 9 mm

SCREWS - for metal, wood, plastic wrench size 9 mm

| Art.-Nr. art.no. | VE unit | Gewindelänge (mm) thread length | Material material | Gewinde thread |
|---------------------|----------------|------------------------------------|--|------------------------------|
| 113141 | 1 50 1.000 | 10,0 | Messing - vernickelt brass nickel plated | Edelstahl stainless steel |
| 113142 | 1 50 1.000 | 10,0 | Messing - verchromt brass chrome plated | Edelstahl stainless steel |
| 113144 | 1 50 1.000 | 12,0 | Messing - vernickelt brass nickel plated | Edelstahl stainless steel |
| 113145 | 1 50 1.000 | 12,0 | Messing - verchromt brass chrome plated | Edelstahl stainless steel |
| 113097 | 1 50 1.000 | 12,0 | Edelstahl stainless steel | Edelstahl stainless steel |
| 113149 | 1 50 1.000 | 12,0 | Messing - schwarz verchromt brass black chrome plated | Edelstahl stainless steel |
| 113110 | 1 50 1.000 | 16,0 | Messing - vernickelt brass nickel plated | Edelstahl stainless steel |
| 113103 | 1 50 1.000 | 16,0 | Messing - verchromt brass chrome plated | Edelstahl stainless steel |
| 113150 | 1 50 1.000 | 16,0 | Messing - schwarz verchromt brass black chrome plated | Edelstahl stainless steel |

Sie benötigen eine andere Gewindelänge (mm),
eine anderes Material? Fragen Sie uns danach,
wir bieten Ihnen gerne ihr individuelles Produkt an.

*There is the need of another thread, another
surface? Please ask for it, we're glad to offer you
your individual product!*