



Heiligenstädter  
Reißverschuß

*solider verbinden.*

**PRODUCT  
CATALOG**

## 30 years Heiligenstädter Reißverschluß

In the past as today, we offer zippers and adjacent accessories from German production, sustainably manufactured and delivered with our service and quality promise.

For more than 30 years, we have been serving our customers as Heiligenstädter Reißverschluß, a family-run business. However, the tradition of manufacturing zippers in Heiligenstadt goes back much further. Many of our employees have dedicated a large part of their working lives to the development and manufacturing of zippers. This dedication and expertise provides us with valuable competence as well as a wealth of experience and vision for new developments of zippers and the technologies necessary in the future as well as today.

At our location in Thuringia, we manufacture almost our entire range of zippers. Due to the high vertical integration of the product manufacturing process, we are able to realise specific customer orders quickly and reliably. In addition to our focus on service and quality, sustainability in the manufacturing process of our products is also deeply rooted in our corporate philosophy. In this context, since 2020 we have been proudly certified with the “assured sustainability” seal of approval by the German Institute for Sustainability and Economics.

I sincerely hope you enjoy working with our product catalogue and remain with kind regards from Heilbad Heiligenstadt



Matthias Herz  
managing partner





**Heiligenstädter  
Reißverschluß**

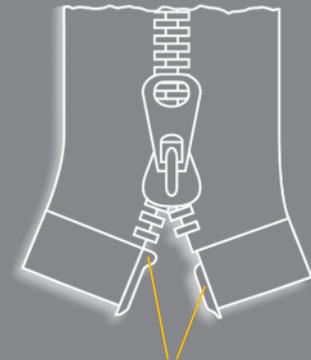
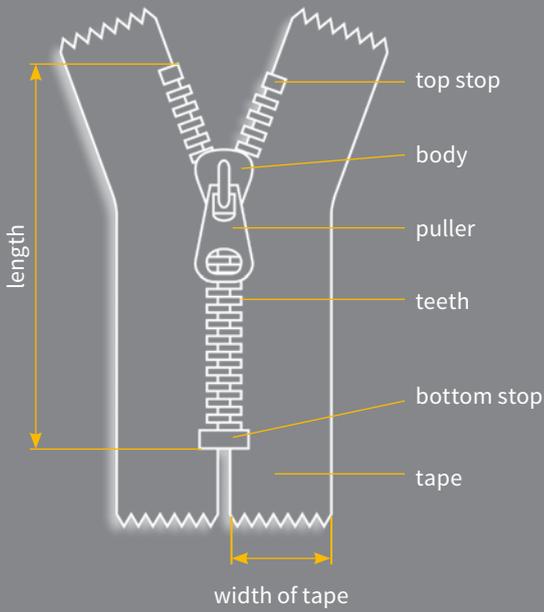
*solider verbinden.*

Our customer base is made up of important companies from industries such as clothing, leather goods, home textiles, upholstery and camping.

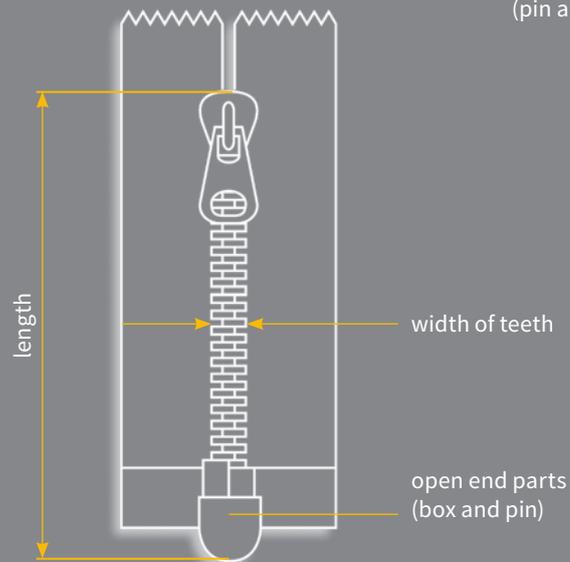
The icon “JO” has been a feature of our products for more than 40 years. Since 2016 it is now also an integral part of our company logo and it stands for **JO**lid connections.

# Basics of a zipper

## Structure



open end parts for 2-way open end zipper (pin and stud)



General information

## Types of sliders



automatic slider



semiautomatic slider



reversible automatic slider

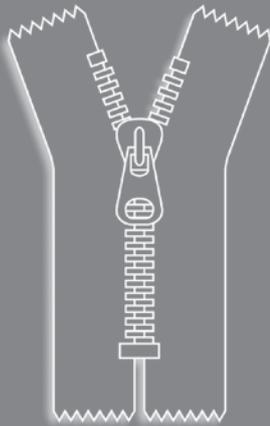


non locking slider with one puller



non locking slider with double puller

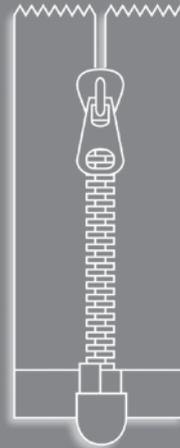
## Types of zippers



### Type A

closed end, 1 slider,  
available in the following types:

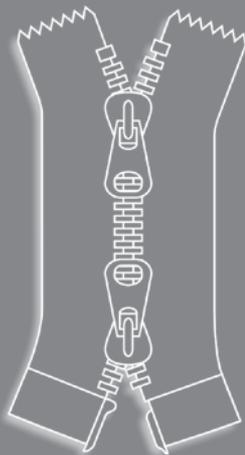
PNO	PN5	PRO
×	×	×
P10	P20	P25
×	×	×
PK0	PK10	PK20
×	×	×
M0	M10	MS10
×	×	×
M20		
×		



### Type B

open end, 1 slider  
available in the following types:

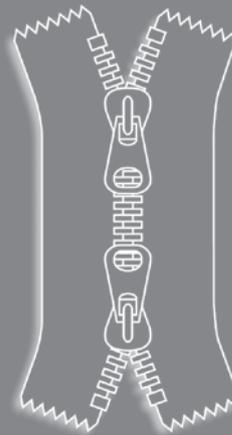
PNO	PN5	PRO
		×
P10	P20	P25
×	×	×
PK0	PK10	PK20
×	×	×
M0	M10	MS10
×	×	×
M20		
×		



### Type C

2-way open end,  
2 sliders, X-type, available  
in the following types:

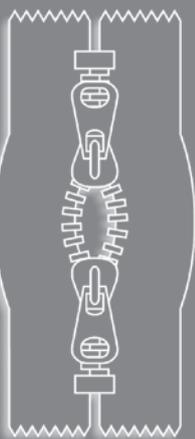
PNO	PN5	PRO
		×
P10	P20	P25
×	×	×
PK0	PK10	PK20
×	×	×
M0	M10	MS10
×		×
M20		
×		



### Type D

2-way closed end, 2 sliders,  
X-type, 2 top stops at each end,  
available in the following types:

PNO	PN5	PRO
		×
P10	P20	P25
×	×	×
PK0	PK10	PK20
×	×	×
M0	M10	MS10
×		×
M20		
×		



### Type F

2-way closed end, 2 sliders  
O-type, 1 bottom stop at each end,  
available in the following types:

PNO	PN5	PRO
		×
P10	P20	P25
×	×	×
PK0	PK10	PK20
M0	M10	MS10
×		×
M20		
×		

## Finishing:

For our zippers we offer the following finishes for selected articles:

- impregnation of the tapes against rising moisture
- flame retardant finish
- UV protection:  
to increase the colour fastness and durability of the polyester fiber, the zip fastener is equipped with UV absorber.

We also can provide some articles with

- water repellent coating
- supplied with short welded off tape ends

## Personalization

Design a puller according to your ideas!

For the personalization of the pullers we offer you:

- laser cutting of an existing metal puller with your logo



- development of your desired puller in our in-house toolmaking department
- you determine shape and logo





Spiral zippers

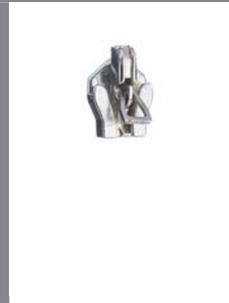
# Spiral zippers



## Basic types of automatic sliders



Tropfen



Zwischenglied



Knopf klein

You can find more matching pullers on our website under the following QR code:



## PN 0

- for light clothing
- with knitted tape

spiral width: 4.2 mm

total width: 24 mm

available as type

A	B	C	D	F
x				

Spiral zipper

## Specials



moveable bottom stop



combination with pullers lacquered in other colours is possible too

## Basic types of automatic sliders



Tropfen



Zwischenglied



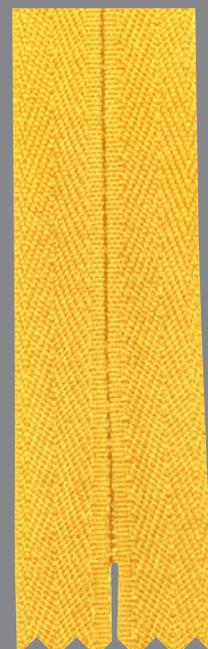
## PN 5

- for light clothing
- with woven tape

spiral width: 4.9 mm  
total width: 24 mm

available as type

A	B	C	D	F
x				



# Spiral zippers



## PRO

- for light clothing, small leatherwear, home textiles, upholstery

standard tape:

spiral width: 4.2 mm  
total width: 24 mm

available as type

A	B	C	D	F
x	x	x	x	x

wide tape:

spiral width: 4.2 mm  
total width: 32 mm

available as type

A	B	C	D	F
x			x	x

limited colour range



## Basic types of automatic sliders



automatic slider



Tropfen



konischer Griff



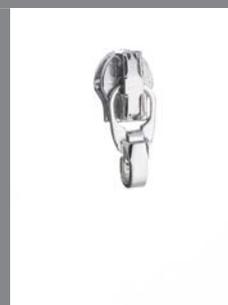
Zwischenglied



NA 100 \*



direkter Ring \*



Karabinerhaken



automatic reversible slider \*,\*\*



semiautomatic slider \*\* \*\*



semiautomatic slider silver or old silver with rubberized puller black \*



semiautomatic slider silver with rubberized puller transparent \*

\*for open end 2-way zippers only available as upper slider

\*\* only available in galvanic surfaces with limited colour range

## Basic types of non locking sliders



non locking slider



loser Kugelstab



non locking slider with ring



non locking reversible slider with long pullers \*\*



non locking slider with short pullers \*\*



non locking reversible plastic slider made of PA 6.6 fibreglass reinforced, black or white



non locking plastic reversible slider made of POM, black or white

## Bed linen sliders



plastic white



metal silver

\*\* only available in galvanic surfaces with limited colour range



## PRO

- for small leather goods, home textiles, bed linen

standard tape:

spiral width: 4.2 mm

total width: 24 mm

available as type

A	B	C	D	F
x			x	x

wide tape:

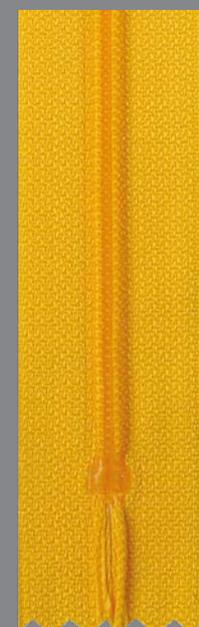
spiral width: 4.2 mm

total width: 32 mm

available as type

A	B	C	D	F
x			x	x

limited colour range



# Spiral zippers



## P 10

- for medium-weight clothing, workwear, leather goods, sportswear, upholstery, camping needs and leisure needs

standard tape:

spiral width: 6.5 mm  
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x

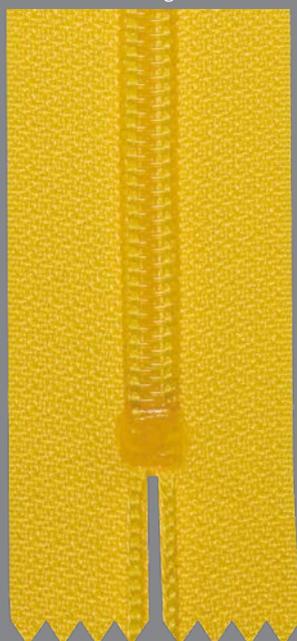
wide tape:

spiral width: 6.5 mm  
total width: 40 mm

available as type

A	B	C	D	F
x			x	x

limited colour range



## Basic types of automatic sliders



automatic slider



konischer Griff



Löffelgriff



Leine



Drahtschlaufe



NA 113



direkter Ring



automatic reversible slider with Löffelgriff \*\*



semiautomatic slider silver or old silver with rubberized puller black \*



semiautomatic slider silver or silver matt with rubberized puller transparent \*



Zwischenglied



Karabinerhaken



automatic plastic slider made of PA6.6 fibreglass reinforced black or white not for 2-way zippers



Klickschieber (for mounting your puller yourself) \*\*

\* for open end 2-way zippers only available as upper slider

\*\* only available in galvanic surfaces with limited colour range

## Basic types of non locking sliders



non locking slider



non locking reversible slider



non locking reversible slider with ring



non locking slider  
made of PA 6.6  
fibreglass reinforced  
black or white



lockable slider \*\*

\*\* only available in galvanic surfaces with limited colour range



## P 10

- for leather goods, camping needs and leisure needs

standard tape:  
spiral width: 6.5 mm  
total width: 32 mm

available as type

A	B	C	D	F
x			x	x

wide tape:  
spiral width: 6.5 mm  
total width: 40 mm

available as type

A	B	C	D	F
x			x	x

limited colour range



# Zippers with plated spiral

## Zippers with plated spiral mPR 0 und mP 10



### mPR 0

spiral width: 4.2 mm  
total width: 24 mm

available as type

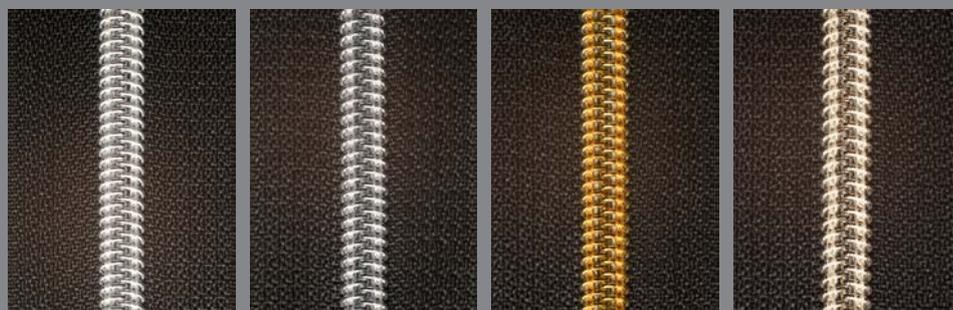
A	B	C	D	F
x	x	x	x	x

### mP 10

spiral width: 6.5 mm  
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x



silver

silver grey

gold

ice gold

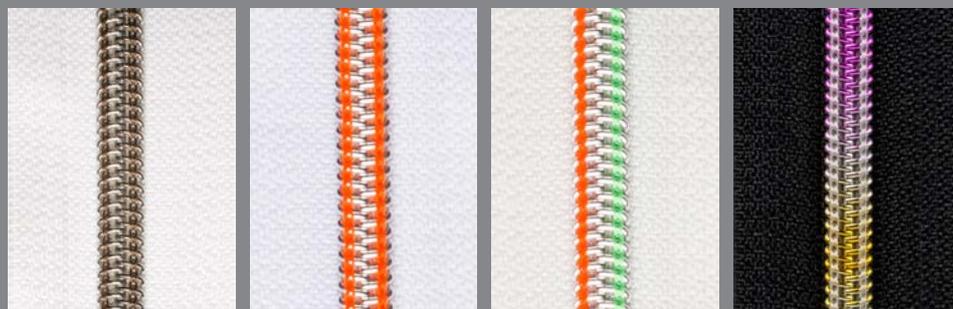


gunmetal

old brass

copper

old copper



oxide

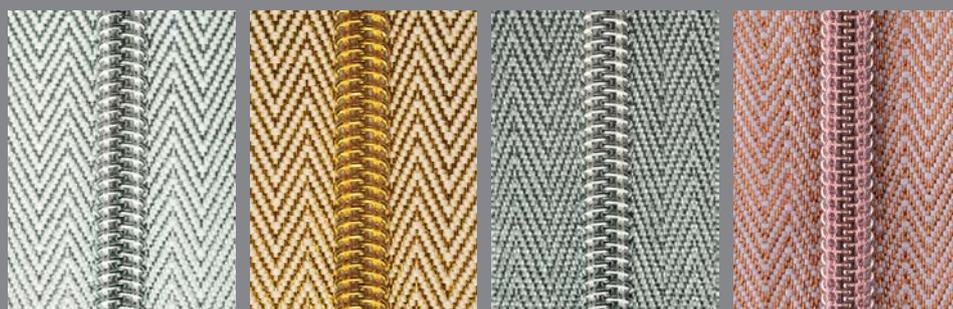
all zippers with plated spiral are available with contrast sewing thread

all zippers with plated spiral are available with contrast sewing thread of different colours

rainbow spiral colour gradient: pink, yellow, blue only available with dark textile tapes

The contrast sewing thread can be chosen from Amann colour card for Serafil (limited colour range).

## Plated spiral with Lurex tape



Lurex colour 520 for PR 0 and P 10

Lurex colour 521 for P 10

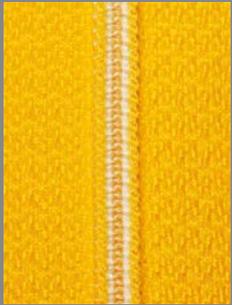
Lurex colour 522 for P 10

Lurex colour 524 für PR 0 and P 10

Spiral zipper

# Spiral zippers with transparent spiral

## With transparent spiral and different-coloured sewing thread



sewing thread  
tone-on-tone to tape



sewing thread in  
contrast to tape



with tapes of different  
colours on the right  
and left, with raw white  
or coloured contrast  
sewing thread



with contrast sewing  
thread bi-coloured

The sewing thread can be chosen from the Amann colour card for Serafil (limited colour range).



### trPR 0

spiral width: 4.2 mm  
total width: 24 mm

available as type

A	B	C	D	F
x	x	x	x	x

### trP 10

spiral width: 6.5 mm  
total width: 32 mm

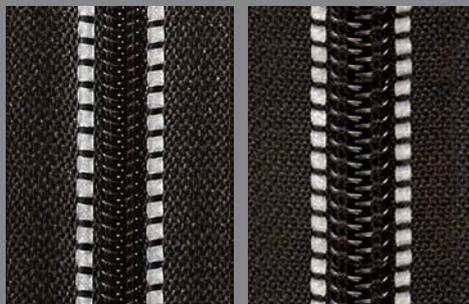
available as type

A	B	C	D	F
x	x	x	x	x



# Spiral zippers with reflective stripes

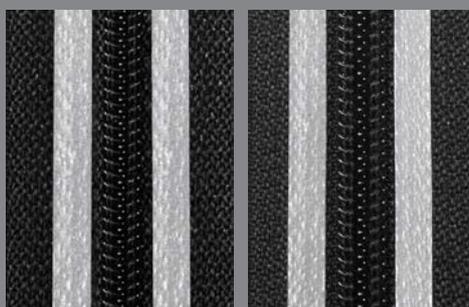
## Black tape with woven in reflective stripes 2 mm



PR 0

P 10

## Black tape with ironed on reflective stripes 5 mm



PR 0

P 10

### PR 0

#### with reflective stripes

spiral width: 4.2 mm

total width: 24 mm

available as type

A	B	C	D	F
x	x	x	x	x

### P 10

#### with reflective stripes

spiral width: 6.5 mm

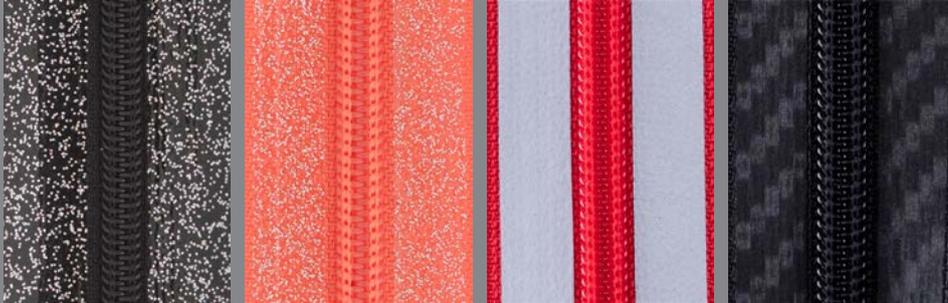
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x



## Foiled spiral zippers PR 0, P 10, P 20 with foil strips 10 mm



starlight black  
shiny 0100

starlight transparent  
shiny 0788

reflex

carbon black  
shiny 0443

Further film colours can be found on page 20.  
These are available on request.

The sliders for these articles can be found on the  
corresponding pages of the articles PR 0, P 10 or P 20.



**foPR 0**

**foP 10**

**foP 20**

- coated from the front

spiral and total width see  
page 10, 12 or 21

available as type

A	B	C	D	F
x	x	x	x	x



# Reverse spiral zippers

The sliders for these items can be found on page 19



uPR 0



uP 10



utrPR 0  
sewing thread  
in contrast to tape



utrP 10  
sewing thread  
in contrast to tape

## uPR 0/utr PR 0

spiral width: 4.2 mm  
total width: 24 mm

available as type

A	B	C	D	F
x	x		x	x

## uP 10/utrP 10

spiral width: 6.5 mm  
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x

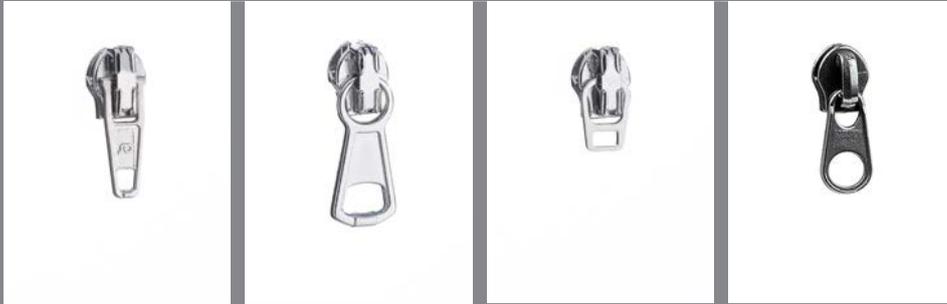
Reversed spiral zippers are not suitable for processing in radii.



# Reverse spiral zippers, water repellent coated, black

## Basic types of automatic sliders for PR 0

limited colour range



automatic slider

konischer Griff

Zwischenglied

non locking slider with short puller



semiautomatic slider silver or old silver with rubberized puller black

semiautomatic slider silver with rubberized puller transparent

non locking slider

non locking plastic slider made of PA 6.6 fibreglass reinforced black



## waPR 0

spiral width: 4.2 mm  
total width: 24 mm

available as type

A	B	C	D	F
x	x		x	x

## waP 10

spiral width: 6.5 mm  
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x

## Basic types of automatic sliders for P 10

limited colour range



automatikschieber

konischer Griff \*

Löffelgriff

Zwischenglied \*



direkter Ring \*

semiautomatic slider silver or old silver with rubberized puller black (transparent puller only with silver)

non locking slider \*

non locking plastic slider made of PA 6.6 glass fibre reinforced black or white \*



\* for open end 2-way zippers only available as upper slider

# Reverse spiral zippers with metallic effect

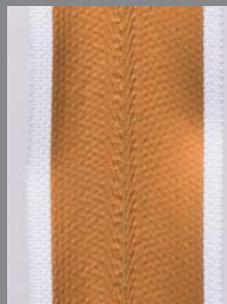
The sliders for these items can be found on page 19



alu shiny 0243



white matt 0012



copper shiny 0096



gold shiny 033



carbon silver shiny 0442



carbon black shiny 0443

## wamPR 0

spiral width: 4.2 mm  
film width: 20 mm  
total width: 24 mm

available as type

A	B	C	D	F
x	x		x	x

## wamP 10

spiral width: 6.5 mm  
film width: 30 mm  
total width: 32 mm

available as type

A	B	C	D	F
x	x	x	x	x



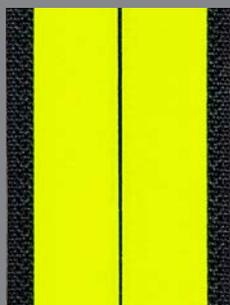
military green matt 0059



nautical blue matt 0097



blue navy matt 0029

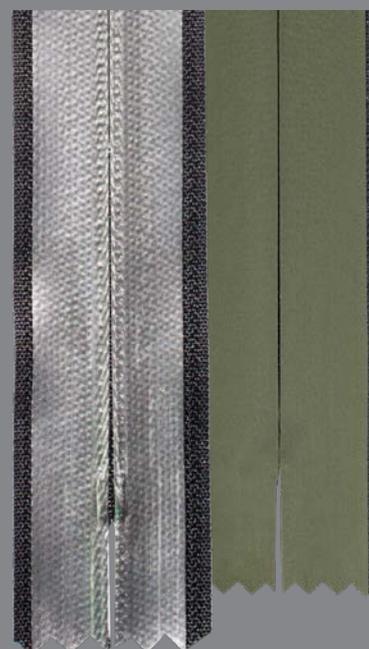


neon yellow matt



neon orange matt

Reversed spiral zippers are not suitable for processing in radii.



## Basic types of automatic sliders



automatic slider



Zwischenglied



## Basic types of non locking sliders



non locking slider



non locking reversible slider



non locking reversible slider with ring

## P 20

- for heavy clothing, camping accessories and boat accessories, awnings, technical uses

spiral width: 8.5 mm  
total with: 40 mm

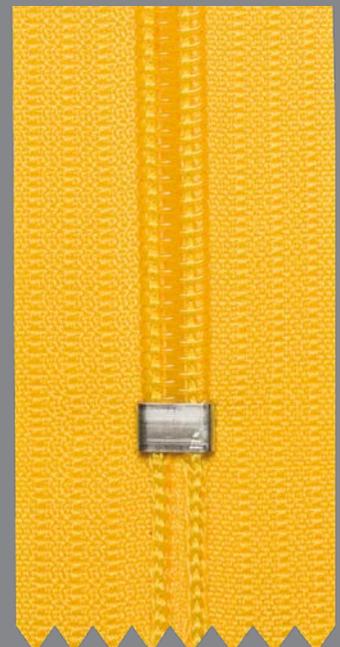
available as type

A	B	C	D	F
x	x	x	x	x

E (2 open end parts, 2 sliders)  
G (2 open end parts, 4 sliders)



lockable slider



# Spiral zippers



## Basic types of automatic sliders



automatic slider \*



Zwischenglied \*

## P 25

- for camping accessories and boat accessories, awnings, technical uses

spiral width: 10.5 mm  
total width: 40 mm

available as type

A	B	C	D	F
x	x	x	x	x

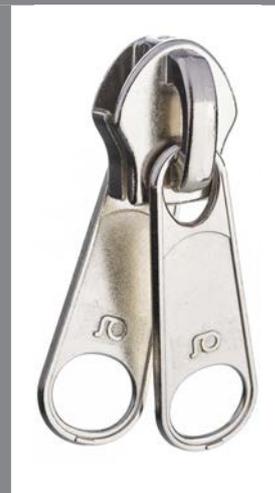
E (2 open end parts, 2 sliders)

G (2 open end parts, 4 sliders)

## Basic types of non locking sliders



non locking slider



non locking reversible slider



lockable slider \*



non locking slider  
made of POM white\*



non locking reversible slider  
made of POM white \*\*

\* not for open end 2-way zippers



Delrin zipper

## Teeth surfaces PK 0, PK 10, PK 20



unicoloured



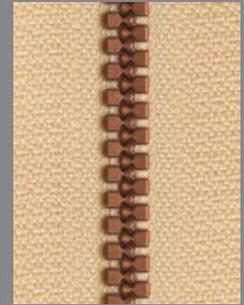
alu



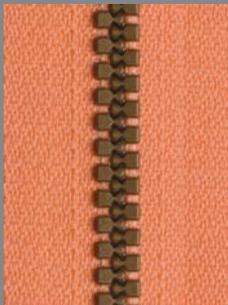
oxide



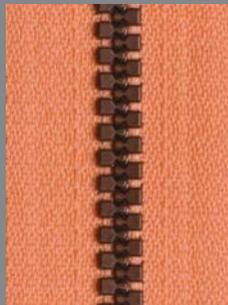
gunmetal



copper

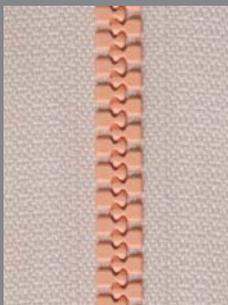


old brass



old copper

## Multicoloured delrin zippers



version 1



version 2



version 3



version 4



version 7

## Basic types of automatic sliders



automatic slider \*

Zwischenglied \*

Löffelgriff \*

konischer Griff \*

## Basic types of non locking sliders



non locking slider \*

\* limited colour range



## PK 0

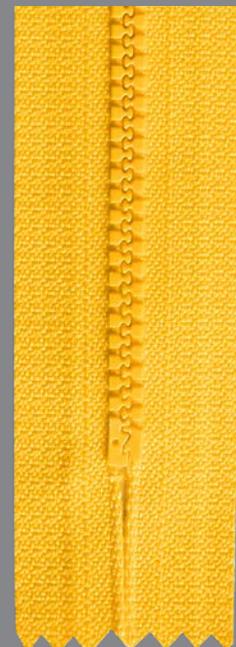
- for light clothing

teeth width: 4.5 mm

total width: 30 mm

available as type

A	B	C	D	F
x	x	x		





## PK 10

- for medium-weight clothing, workwear, sportswear, upholstery, camping needs and leisure needs

teeth width: 5.8 mm  
total width: 30 mm

available as type

A	B	C	D	F
x	x	x	x	

### Basic types of automatic sliders



automatic slider



konischer Griff



Löffelgriff



Leine



Drahtschlaufe



NA 113



direkter Ring



automatic reversible slider\*\*



Zwischenglied



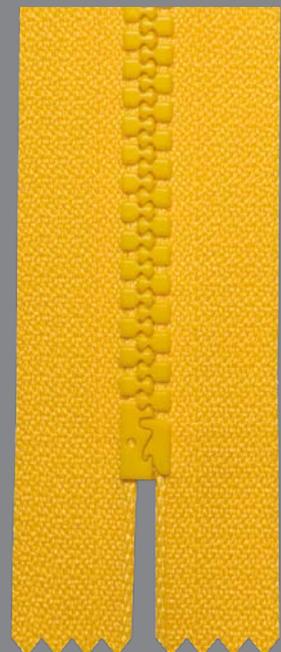
Karabinerhaken slider\*\*



semiautomatic slider  
silver or old silver with  
rubberized puller black \*



automatic plastic slider  
made of POM  
black \*



\* for open end 2-way zippers only available as upper slider

\*\* only available in galvanic surfaces with limited colour range

## Basic types of non locking sliders



non locking slider

non locking reversible slider

non locking slider with ring



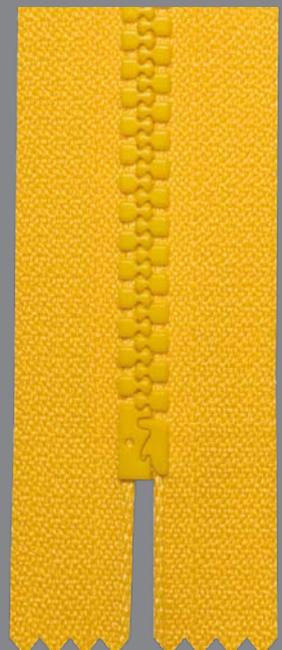
## PK 10

- for leather goods and camping uses

teeth width: 5.8 mm  
total width: 30 mm

available as type

A	B	C	D	F
x	x	x	x	





## Basic types of automatic sliders



automatic slider



konischer Griff



Drahtschlaufe



Zwischenglied

## PK 20

- for heavy clothing, sportswear, camping accessories and boat accessories, awnings, technical uses

teeth width: 8.7 mm  
total width: 38 mm

available as type

A	B	C	D	F
x	x	x	x	

## Basic types of non locking sliders



non locking slider

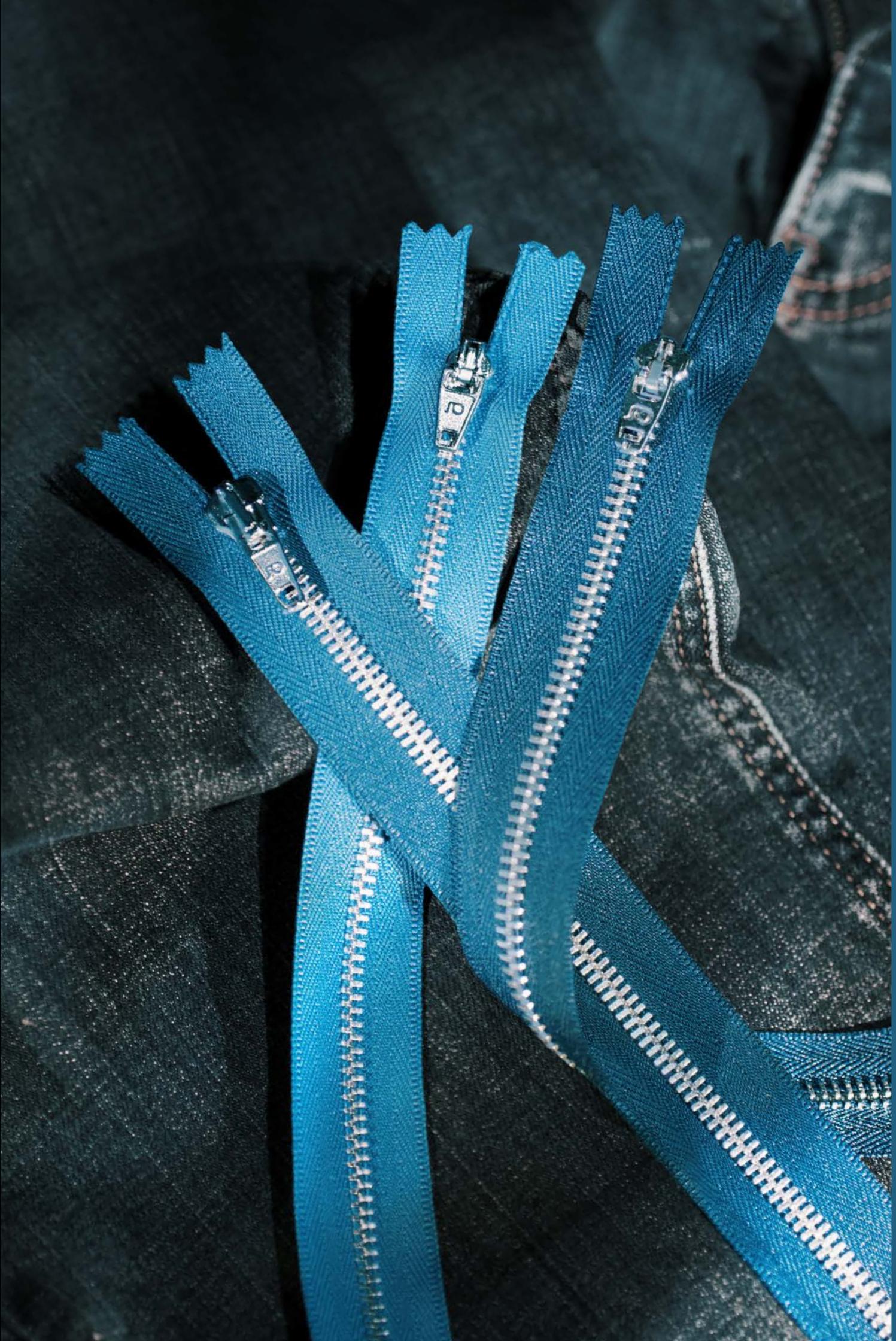


non locking reversible slider



non locking reversible plastic slider made of PA 6.6 glass fibre reinforced, white





**Metal zipper**

# Metal zippers



## MO

- for light clothing, small leather goods

polyester tape:  
teeth width: 4.5 mm  
total width: 25 mm

available as type

A	B	C	D	F
x	x	x	x	x

cotton tape:  
teeth width: 4.5 mm  
total width: 25 mm  
• only raw white for PPT dyeing and only up to a length of 25 cm

available as type

A	B	C	D	F
x				



## Basic types of automatic sliders



automatic slider



Tropfen



konischer Griff



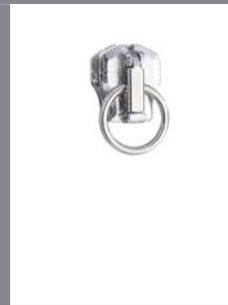
Löffelgriff



Drahtschlaufe



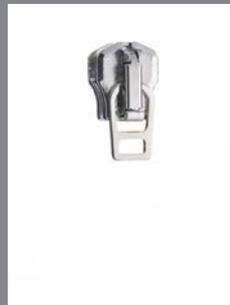
NA 100



direkter Ring



semiautomatic slider



Zwischenglied



Karabinerhaken

## Basic types of non locking sliders

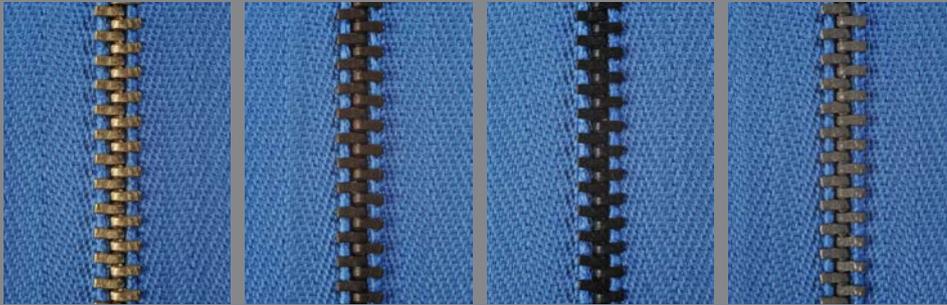


non locking slider



non locking slider with ring

## Surfaces for M O

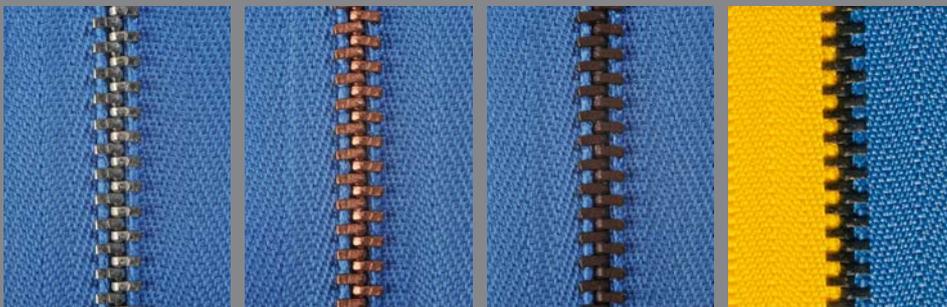


brass

old brass

black brass

old silver \*



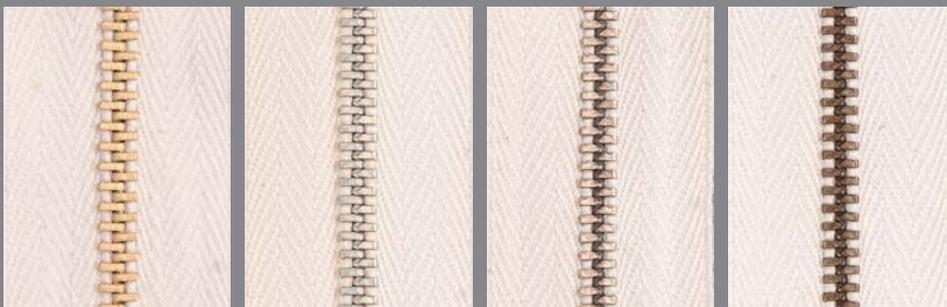
silver

copper

old copper

bi-coloured tape  
(possible in all surfaces)

## Surfaces for M O with cotton tape



brass

silver

old silver \*

old brass

\* With the old silver surface, the tin layer ages artificially through a chemical process. Depending on the batch, the colour of the teeth may vary.

# Metal zippers



## M 10

- for medium-weight clothing, sportswear, workwear, jeanswear, leather goods

teeth width: 6.0 mm  
total width: 30 mm

available as type

A	B	C	D	F
x	x			

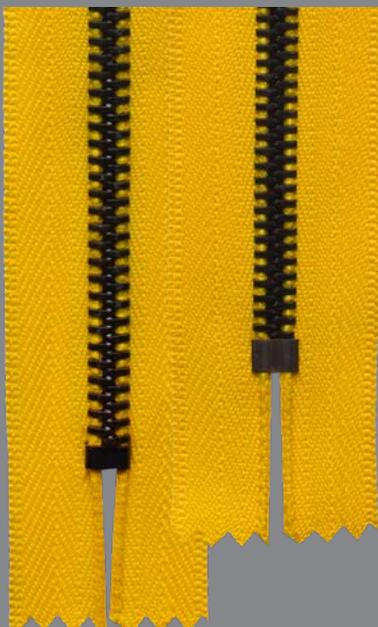
## MS 10 symmetrical teeth

- for medium clothing, sportswear, workwear, jeanswear, leather goods

teeth width: 6.0 mm  
total width: 30 mm

available as type

A	B	C	D	F
x	x	x	x	x



## Basic types of automatic sliders



automatic slider



konischer Griff



Löffelgriff



Leine



Drahtschlaufe



NA 100



direkter Ring



semiautomatic slider \*



Zwischenglied



Karabinerhaken



automatic reversible slider with Löffelgriff (only for type A and B) \*\*

## Basic types of non locking sliders



non locking slider



non locking slider with ring

\* for open end 2-way zippers only available as upper slider

\*\* limited colour range

## Surfaces for M 10



brass



old brass



black brass



old silver \*



silver



bi-coloured tape  
(possible in all surfaces)

## Surfaces for MS 10



brass



old brass



black brass



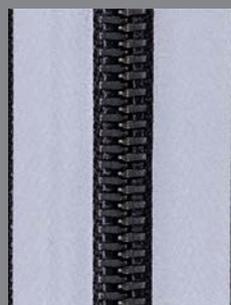
old silver \*



silver



bi-coloured tape  
(possible in all surfaces)



foiled MS 10 in all surfaces  
colours of film to be seen  
at page 17

\* With the old silver surface, the tin layer ages artificially through a chemical process. Depending on the batch, the colour of the teeth may vary.



## Basic types of automatic sliders



E 9233



E 9196



E 1579

## Surfaces for M 20



silver



brass



old brass

## M 20

- for heavy clothing, workwear

teeth width: 7.5 mm  
total width: 35 mm

available as type

A	B	C	D	F
x	x	x	x	x





Polished metal zipper

# Polished metal zippers

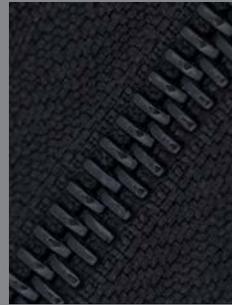
## Surfaces for polished M 0, M 10 and M 20



silver



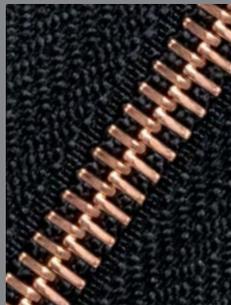
gunmetal



black



gold



rose gold



light brass



old copper



old brass



mix

## Tapes



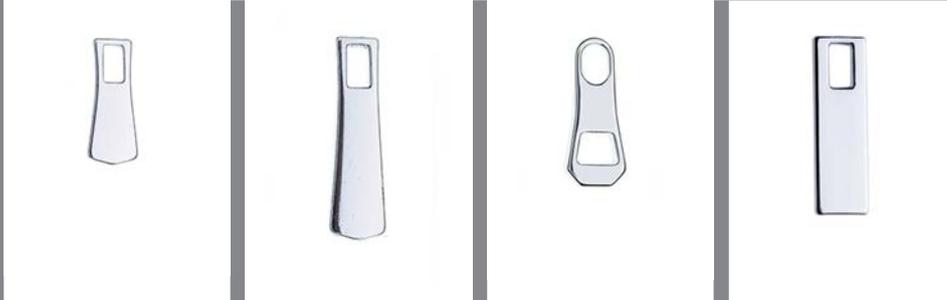
polyester



satin  
(not for polished M 20)

## Pullers for polished M O

high gloss finished sliders and pullers

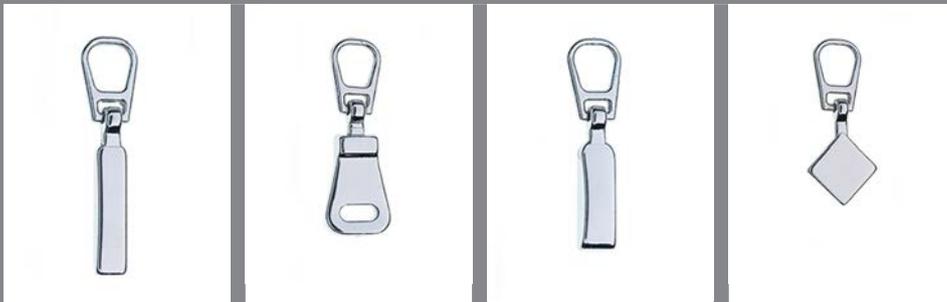


9611

9612

9473

3273



2412

1603

456

2550



2411



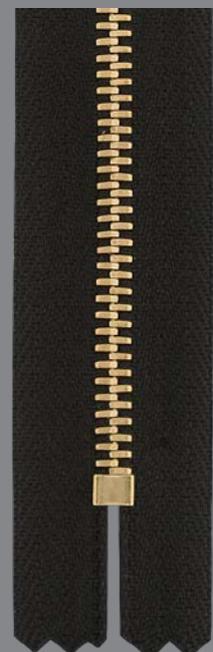
## M O polished

- for high-quality light clothing and small leather goods

teeth width: 4.55 mm  
total width: 26 mm

available as type

A	B	C	D	F
x	x	x	x	x



# Polished metal zippers



## Pullers for polished M 10

high gloss finished sliders and pullers



9480



9567



1577



9474



2220



3273

## M 10 polished

- for high-quality medium-weight clothing, sportswear, leatherwear

teeth width: 5.8 mm

total width: 30 mm

available as type

A	B	C	D	F
x	x	x	x	x



1603



456



2411



2412



435



2368



2386



283



1495



## Pullers for polished M 20

high gloss finished sliders and pullers



3088

1579

9689



1576

2262

3274



## M 20 polished

- for high-quality heavy clothing

teeth width: 7.5 mm

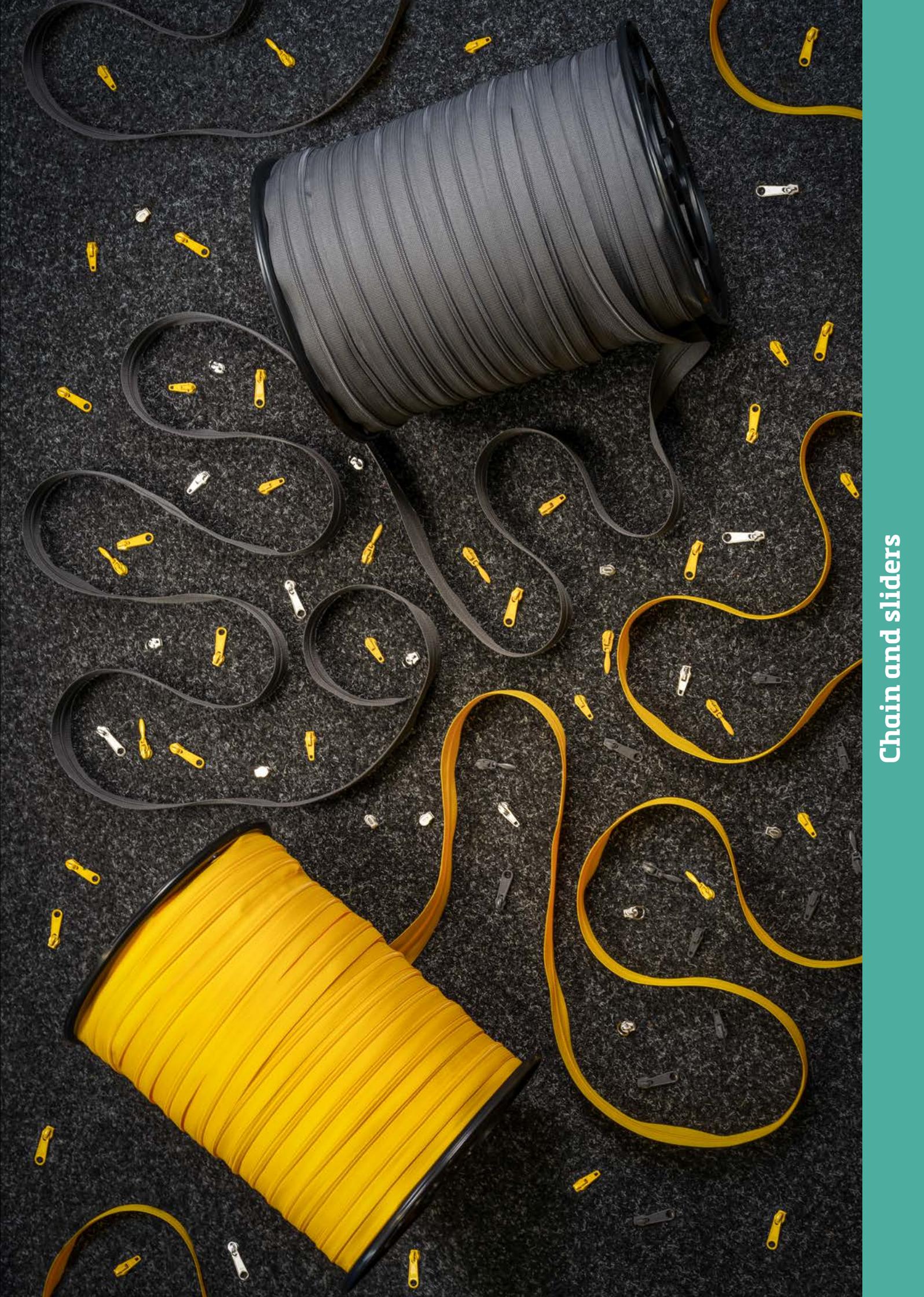
total width: 35 mm

available as type

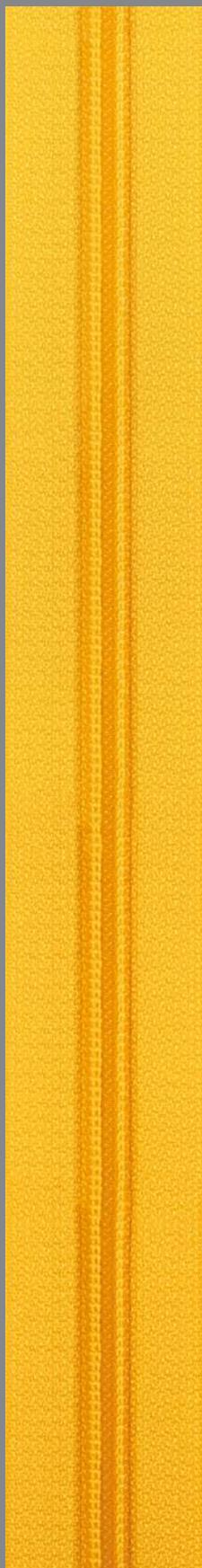
A	B	C	D	F
x	x	x	x	x







## Chain and sliders



We deliver chain and sliders in the following types:

Type	total width of teeth	total width of zipper	standard packing per roll
PR 0 / 12 mm	4.2 mm	24 mm ± 1 mm	200 m
PR 0 / 16 mm *	4.2 mm	32 mm ± 1 mm	200 m
W 0 / 9 mm *	4.0 mm	18 mm ± 1 mm	200 m
W 0 / 12 mm *	4.0 mm	24 mm ± 1 mm	200 m
P 10 / 16 mm	6.5 mm	32 mm ± 1 mm	150 m
P 10 / 20 mm *	6.5 mm	40 mm ± 1 mm	100 m
P 10 / 27 mm *	6.5 mm	54 mm ± 2 mm	100 m
W 10 *	5.85 mm	32 mm ± 1 mm	150 m
P 20 *	8.5 mm	40 mm ± 1 mm	50 m
P 25 *	10.5 mm	40 mm ± 1 mm	50 m
PK 0	4.5 mm	30 mm ± 1 mm	100 m
PK 10	5.8 mm	30 mm ± 1 mm	100 m
PK 10 / 20 mm *	5.8 mm	42 mm ± 1 mm	100 m
PK 20 / 18 mm *	8.7 mm	38 mm ± 1 mm	50 m
PK 20 / 20 mm *	8.7 mm	42 mm ± 1 mm	50 m
M 0	4.5 mm	25 mm ± 1 mm	150 m
M 0 cotton tape ***	4.5 mm	25 mm ± 1 mm	
M 0 poliert	4.55 mm	26 mm ± 1 mm	
M 10 ***	6.0 mm	30 mm ± 1 mm	100 m
M 10 polished	5.80 mm	30 mm ± 1 mm	
MS 10	6.0 mm	30 mm ± 1 mm	100 m
M 20 ***	7.5 mm	35 mm ± 1 mm	
M 20 polished	7.5 mm	35 mm ± 1 mm	

\* limited colour range

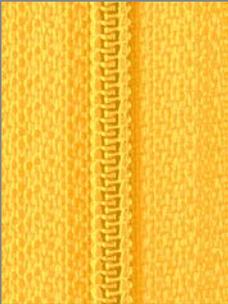
\*\* when used as 2-way zipper, please specify when ordering

\*\*\* not for use as 2-way zipper

You will find the matching sliders on the previous pages.

## Chain and sliders W 0

spiral width: 4.0 mm  
total width: 24 mm ± 1 mm



automatic slider



Tropfen



Zwischenglied



plastic bed linen slider white



metal bed linen slider silver



semiautomatic slider



non locking slider



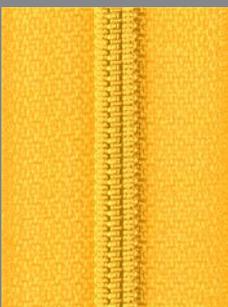
Tropfen (reverse slider)



könischer Griff (reverse slider)

## Chain and sliders W 10

spiral width: 5.85 mm  
total width: 32 mm ± 1 mm



automatic slider



non locking slider



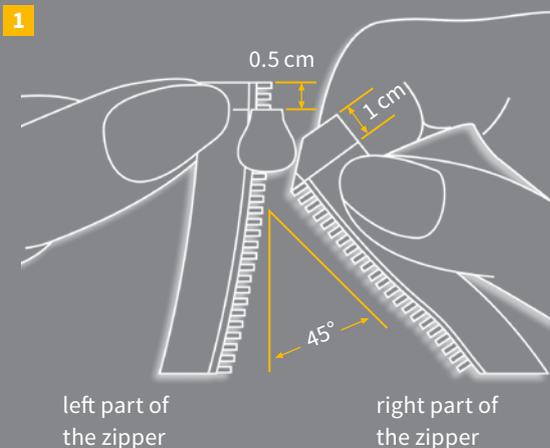
non locking slider (reverse)

The colour range is more or less limited for all articles on this page. An overview of the colours in stock can be found on our website at:

The range of colours can be expanded for larger purchase quantities.



# Tips for slider mounting



1 You have to separate the chain when it is loose or already sewed into another item. Then you have to cut the right half of the chain at an angle.

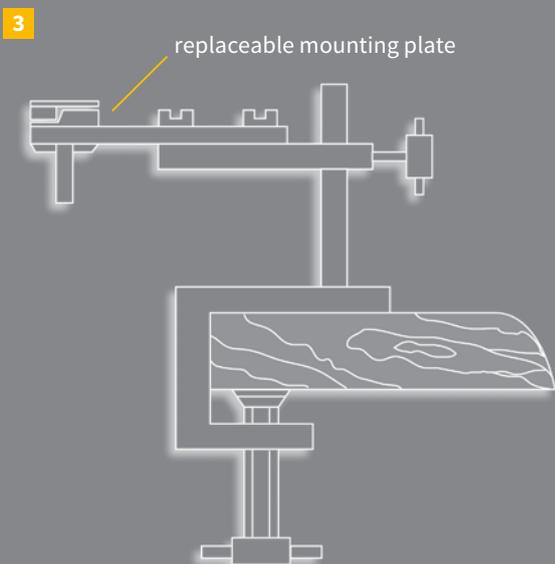
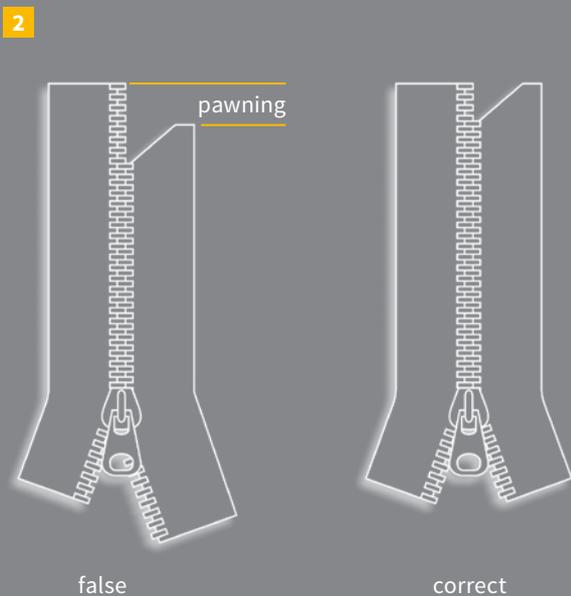
After you have pulled up the slider for 0.5 cm on the left half of the chain – you have to thread the cut right half of the chain into the slider in an angle of 45°.

You have to keep both ends of the chain below the slider and pull the slider on the chain for about 5 cm.

2 You have to pay attention to the fact that there is no mismatch between the both halves of the chain. If necessary you have to pull off the slider and after correction of the halves to pull it up again.

3 For the whole operation you should use our special slider mounting device which you can fixate at every tabletop (e.g. sewing machine table).

Mounting plates are replaceable and available for many different sliders.





Sliders and pullers

# Surface of sliders and pullers

We offer sliders in the following surfaces:



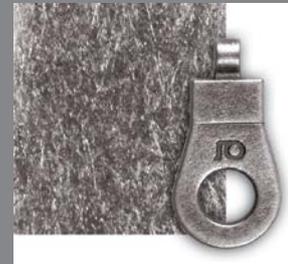
silver



silver matt



aluminum laquered



old silver



brass



ice gold



real gold plated



old brass



copper



old copper



oxide laquered



colour laquered



tin black



brass black



gunmetal

## with claw:



You can find our complete range of pullers on our website under the following QR codes:

## with loop for automatic sliders:



## with loop for non locking sliders:



## with cord



## with own logo:



	Materials										
	PN 0	PR 0	P 10	P 20	P 25	PK 0	PK 10	PK 20	M 0	M 10	MS 10
textile tape	polyester										
sewing thread	polyester					-			-		
coil	polyester monofilament					-			-		
teeth	-					polyacetal			brass		
top stop	polyester			aluminum		polyacetal			brass		
bottom stop	polyester			aluminum		polyacetal			brass		
open end fitments	fine zinc pressure cast alloy					polyacetal			fine zinc pressure cast alloy		
slider	fine zinc pressure cast alloy										

	Technical data (in N)										
	PN 0	PR 0	P 10	P 20	P 25	PK 0	PK 10	PK 20	M 0	M 10	MS 10
puller attachment (only with metal puller)	70	80	200	250	300	70	200	250	80	200	200
strength of indivisible zipper (closed end)	35	60	80	100	140	35	60	100	60	80	80
strength of attachment of top stops	50	70	90	110	130	50	90	110	70	90	90
lengthwise strength of the box (unit of open-end part)	-	60	90	120	150	40	90	120	70	90	90
resistance of chain to lateral load	300	350	600	800	900	250	400	600	425	500	500
resistance of open-end fitment to lateral load	-	70	90	120	160	40	90	120	70	90	90

	Measurements of zippers (in mm)										
	PN 0	PR 0	P 10	P 20	P 25	PK 0	PK 10	PK 20	M 0	M 10	MS 10
total width of teeth	4.2	4.2	6.5	8.5	10.5	4.5	5.8	8.7	4.5	6	6
single tape width (tolerance +/- 0.5 mm)	12	12	16	20	20	14	14	18	12	14	14
total width of zipper (tolerance +/- 1 mm)	24	24	32	40	40	30	30	38	25	30	30

We reserve the right to make technical changes.  
Colour deviations are possible in all colour illustrations.

	Materials					
	PN 5	M 0 polished	M 10 polished	M 20 polished	M 20	M 0 (cotton)
textile tape	polyester					cotton
sewing thread	Polyester	-				
coil	polyester-monofilament	-				
teeth	-	brass				
top stop	Polyester	brass				
bottom stop	Polyester	brass				
open end fitments	fine zinc pressure cast alloy					-
slider	fine zinc pressure cast alloy					

	Technical data (in N)					
	PN 5	M 0 polished	M 10 polished	M 20 polished	M 20	M 0 (cotton)
puller attachment (only with metal puller)	70	80	200	250	250	80
strength of indivisible zipper (closed end)	35	60	80	100	100	60
strength of attachment of top stops	50	70	90	110	110	70
lengthwise strength of the box (unit of open-end part)	-	70	90	120	120	70
resistance of chain to lateral load	350	425	500	700	700	300
resistance of open-end fitment to lateral load	-	70	90	120	120	70

	Measurements of zippers (in mm)					
	PN 5	M 0 polished	M 10 polished	M 20 polished	M 20	M 0 (cotton)
total width of teeth	4.9	4.55	5.8	7.5	7.5	4.5
single tape width (tolerance +/- 0.5 mm)	12	12	14	17	17	12
total width of zipper (tolerance +/- 1 mm)	24	26	30	35	35	25

We reserve the right to make technical changes.  
Colour deviations are possible in all colour illustrations.





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