

# assortment informations new products

02.2022 EN

Tools. Next Level.



**Brütsch/Rüegger Tools Ltd.**

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152290 LED Ring Light

For illumination of workpieces.

Package content:  
LED ring light with power supply.

Order ID	152290.0100
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224201 Solid carbide engraving cutters DIXI

VHM

P

O

M

K

●●

N

●●

S

O

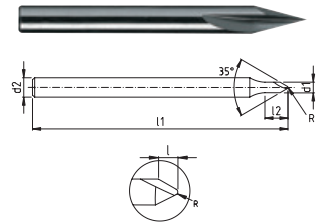
H

O

O

7007, tip angle 35°

Order ID	d1 mm	R mm	l2 mm	d2 mm	l1 mm	l mm
224201.0100	1.5	0.05	3.4	3	38	1.9
224201.0200	1.5	0.10	3.4	3	38	1.9
224201.0300	1.5	0.15	3.4	3	38	1.9
224201.0400	1.5	0.20	3.4	3	38	1.9



224221 60° solid carbide engraving cutters DIXI

VHM

P

O

M

K

O

N

●●

S

●●

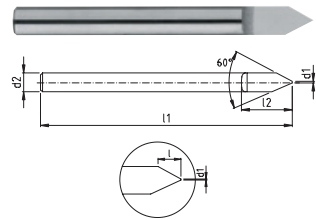
H

O

●●

7017, finish ground

Order ID	d1 mm	l2 mm	d2 mm	l1 mm	l mm
224221.0100	0.05	6	3	38	2.4
224221.0200	0.08	6	3	38	2.4
224221.0300	0.10	6	3	38	2.4
224221.0400	0.15	6	3	38	2.4
224221.0500	0.20	6	3	38	2.4
224221.0600	0.05	8	4	50	3.3
224221.0700	0.10	8	4	50	3.3
224221.0800	0.20	8	4	50	3.3



226021 SC shoulder milling cutter FUTURO

VHM

Ø

6-20

TiAlN

6-8

P

●●

M

K

O

N

S

H

O

O

Type N

Order ID	d1 mm	l2 mm	d2 mm	l1 mm	teeth
226021.0100	6	13	6	57	6
226021.0300	8	19	8	63	6
226021.0500	10	22	10	72	6
226021.0600	12	26	12	83	6
226021.0700	14	26	14	83	6
226021.0800	16	32	16	92	6
226021.1000	20	38	20	104	8





226041 SC shoulder milling cutter FUTURO


VHM


Ø  
6-20


TiAlN


  
45°

  
h6

  
NORM



  
6-8



P

M


K


N


S


H


O
















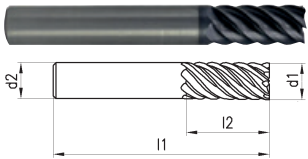




Type N

Order ID	d1 mm	l2 mm	d2 mm	l1 mm	teeth
226041.0100	6	13	6	57	6
226041.0300	8	19	8	63	6
226041.0500	10	22	10	72	6
226041.0600	12	26	12	83	6
226041.0800	16	32	16	92	6
226041.1000	20	38	20	104	8

FUTURO





226121 SC shoulder/ slot milling cutters FUTURO


VHM


Ø  
2-20


TiAlN


  
30°


  
h6

  
NORM





  
4



P

M


K


N


S


H


O
















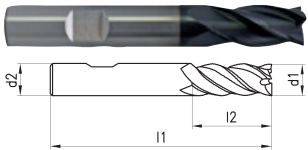




Type N

Order ID	d1 mm	l2 mm	d2 mm	l1 mm
226121.0100	2	6	4	40
226121.0200	2.5	8	4	40
226121.0300	3	8	6	45
226121.0400	3.5	10	6	45
226121.0500	4	11	6	45
226121.0600	4.5	11	6	45
226121.0700	5	13	6	50
226121.0800	5.5	13	6	50
226121.0900	6	13	6	50
226121.1000	6.5	16	8	60
226121.1100	7	16	8	60
226121.1200	7.5	16	8	60
226121.1300	8	19	8	60
226121.1700	10	22	10	70
226121.2100	12	26	12	75
226121.2300	16	32	16	100
226121.2400	20	38	20	105

FUTURO




261681 Thread former DC FA nano


Metric ISO thread


HSS-E  
PM


VS


M


  
RH


  
4HX

  
C 2-3



  
3





P

M


K


N


S


H


O
















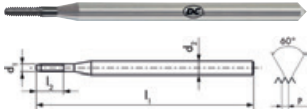




Power class FAnano

For any type of material with an elongation > 5 %

Order ID	d	P mm	l1 mm	d2 mm	l2 mm	Ø mm
261681.0100	M0.5	0.125	25	2	1.5	0.44
261681.0200	M0.6	0.15	25	2	1.8	0.53
261681.0300	M0.7	0.175	25	2	2.1	0.62
261681.0400	M0.8	0.2	25	2	2.4	0.71
261681.0500	M0.9	0.225	25	2	2.7	0.8
261681.0600	M1	0.25	40	2.5	3	0.88
261681.0700	M1.2	0.25	40	2.5	3.6	1.08
261681.0800	M1.4	0.3	40	2.5	4.2	1.25



261682 Thread former DC FA nano


Metric ISO thread


HSS-E  
PM


VS


M


RH

  
6HX

  
C 2-3

  
3

  
<2.5 x D



P

M

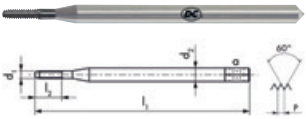
K

N

S

H

O



Power class FAnano

For any type of material with an elongation > 5 %

Order ID	d	P	l1	d2	l2	a	Ø
		mm	mm	mm	mm	mm	mm
261682.0100	M1.6	0.35	40	2.5	4.8	-	1.45
261682.0200	M1.8	0.35	40	2.5	5.4	-	1.65
261682.0300	M2	0.4	45	2.8	8	2.1	1.8
261682.0400	M2.3	0.4	45	2.8	9	2.1	2.1
261682.0500	M2.5	0.45	50	2.8	10	2.1	2.3
261682.0600	M2.6	0.45	50	2.8	10	2.1	2.4

261684 Thread former DC CFA nano


Metric ISO thread


VHM


VS


M


RH

  
6HX





  
<2.5 x D



P

M

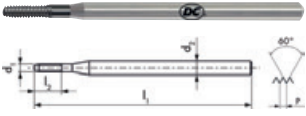
K

N

S

H

O



Power class CFAnano

For any type of non-ferrous material with an elongation > 3 %

For materials such as: aluminium and copper alloys, gold and silver

Order ID	d	P	l1	d2	l2	Ø
		mm	mm	mm	mm	mm
261684.0100	M1.6	0.35	32	2	4.8	1.45
261684.0200	M1.8	0.35	32	2	5.4	1.65
261684.0300	M2	0.4	39	3	8	1.8
261684.0400	M2.3	0.4	39	3	9	2.1
261684.0500	M2.5	0.45	39	3	10	2.3
261684.0600	M2.6	0.45	39	3	10	2.4

264705 Taps DC, TAZ nano


Metric ISO thread


HSS-E  
PM


VS


M


RH

  
ISO 1 (4H)

  
D 3.5-5

  
3

  
<2 x D



P

M

K

N

S

H

O



spiral grooves 20°, left-hand helix

Power class TAZnano

For tough materials such as nickel alloys, titanium alloys, alloyed precious materials

Order ID	d	P	l2	d2	l1	Ø
		mm	mm	mm	mm	mm
264705.0100	M0.5	0.125	1.5	2	25	0.41
264705.0200	M0.6	0.15	1.8	2	25	0.5
264705.0300	M0.7	0.175	2.1	2	25	0.58
264705.0400	M0.8	0.2	2.4	2	25	0.66
264705.0500	M0.9	0.225	2.7	2	25	0.74
264705.0600	M1	0.25	3	2.5	40	0.75
264705.0700	M1.2	0.25	3.6	2.5	40	0.95
264705.0800	M1.4	0.3	4.2	2.5	40	1.1

264706 Taps DC, TAZ nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 2 (6H)

D  
3.5-5



3

  
<2 x D



P

M

K

N

S

H

O



spiral grooves 20°, left-hand helix  
**Power class TAZnano**  
For tough materials such as nickel alloys, titanium alloys, alloyed precious materials

Order ID	d	P	l2	d2	l1	a	Ø
264706.0100	M1.6	0.35	4.8	2.5	40	-	1.25
264706.0200	M1.8	0.35	5.4	2.5	40	-	1.45
264706.0300	M2	0.4	8	2.8	45	2.1	1.6
264706.0400	M2.3	0.4	9	2.8	45	2.1	1.9
264706.0500	M2.5	0.45	10	2.8	50	2.1	2.05
264706.0600	M2.6	0.45	10	2.8	50	2.1	2.15

264707 Taps DC, TAZ nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 1 (4H)

C  
2-3



3

  
<2 x D



P

M

K

N

S

H

O



spiral grooves 25°, right-hand helix  
**Power class TAZnano**  
For tough materials such as nickel alloys, titanium alloys, alloyed precious materials

Order ID	d	P	l2	d2	l1	Ø
264707.0100	M0.5	0.125	1.5	2	25	0.41
264707.0200	M0.6	0.15	1.8	2	25	0.5
264707.0300	M0.7	0.175	2.1	2	25	0.58
264707.0400	M0.8	0.2	2.4	2	25	0.66
264707.0500	M0.9	0.225	2.7	2	25	0.74
264707.0600	M1	0.25	3	2.5	40	0.75
264707.0700	M1.2	0.25	3.6	2.5	40	0.95
264707.0800	M1.4	0.3	4.2	2.5	40	1.1

264708 Taps DC, TAZ nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 2 (6H)

C  
2-3



3

  
<2 x D



P

M

K

N

S

H

O



spiral grooves 25°, right-hand helix  
**Power class TAZnano**  
For tough materials such as nickel alloys, titanium alloys, alloyed precious materials

Order ID	d	P	l2	d2	l1	a	Ø
264708.0100	M1.6	0.35	4.8	2.5	40	-	1.25
264708.0200	M1.8	0.35	5.4	2.5	40	-	1.45
264708.0300	M2	0.4	8	2.8	45	2.1	1.6
264708.0400	M2.3	0.4	9	2.8	45	2.1	1.9
264708.0500	M2.5	0.45	10	2.8	50	2.1	2.05
264708.0600	M2.6	0.45	10	2.8	50	2.1	2.15

264710 Taps DC, TAN nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 1 (4H)

C  
2-3



3

 <2 x D



P

M

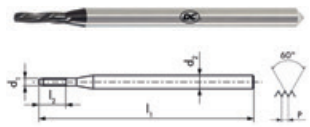
K

N

S

H

O



spiral grooves 20°, left-hand helix  
**Power class TANnano**  
For easy-to-machine materials, steels, brass, yellow gold, silver

Order ID	d	P	l2	d2	l1	Ø
		mm	mm	mm	mm	mm
264710.0100	M0.5	0.125	1.5	2	25	0.41
264710.0200	M0.6	0.15	1.8	2	25	0.5
264710.0300	M0.7	0.175	2.1	2	25	0.58
264710.0400	M0.8	0.2	2.4	2	25	0.66
264710.0500	M0.9	0.225	2.7	2	25	0.74
264710.0600	M1	0.25	3	2.5	40	0.75
264710.0700	M1.2	0.25	3.6	2.5	40	0.95
264710.0800	M1.4	0.3	4.2	2.5	40	1.1

264711 Taps DC, TAN nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 2 (6H)

C  
2-3



3

 <2 x D



P

M

K

N

S

H

O



spiral grooves 20°, left-hand helix  
**Power class TANnano**  
For easy-to-machine materials, steels, brass, yellow gold, silver

Order ID	d	P	l2	d2	l1	a	Ø
		mm	mm	mm	mm	mm	mm
264711.0100	M1.6	0.35	4.8	2.5	40	-	1.25
264711.0200	M1.8	0.35	5.4	2.5	40	-	1.45
264711.0300	M2	0.4	8	2.8	45	2.1	1.6
264711.0400	M2.3	0.4	9	2.8	45	2.1	1.9
264711.0500	M2.5	0.45	10	2.8	50	2.1	2.05
264711.0600	M2.6	0.45	10	2.8	50	2.1	2.15

264712 Taps DC, TAN nano


Metric ISO thread

HSS-E  
PM


VS

M


RH


ISO 1 (4H)

C  
2-3



3

 <2 x D



P

M

K

N

S

H

O
















spiral grooves 25°, right-hand helix  
**Power class TANnano**  
For easy-to-machine materials, steels, brass, yellow gold, silver

Order ID	d	P	l2	d2	l1	Ø
		mm	mm	mm	mm	mm
264712.0100	M0.5	0.125	1.5	2	25	0.41
264712.0200	M0.6	0.15	1.8	2	25	0.5
264712.0300	M0.7	0.175	2.1	2	25	0.58
264712.0400	M0.8	0.2	2.4	2	25	0.66
264712.0500	M0.9	0.225	2.7	2	25	0.74
264712.0600	M1	0.25	3	2.5	40	0.75
264712.0700	M1.2	0.25	3.6	2.5	40	0.95
264712.0800	M1.4	0.3	4.2	2.5	40	1.1

264713 Taps DC, TAN nano

Metric ISO thread

HSS-E PM	VS	M	RH 	 ISO 2 (6H)	C 2-3 	 3		
 <2 x D		P 	M 	K 	N 	S 	H 	O 



spiral grooves 25°, right-hand helix







Power class TANnano

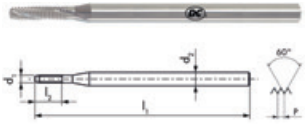
For easy-to-machine materials, steels, brass, yellow gold, silver

Order ID	d	P	l2	d2	l1	a	Ø
264713.0100	M1.6	0.35	4.8	2.5	40	-	1.25
264713.0200	M1.8	0.35	5.4	2.5	40	-	1.45
264713.0300	M2	0.4	8	2.8	45	2.1	1.6
264713.0400	M2.3	0.4	9	2.8	45	2.1	1.9
264713.0500	M2.5	0.45	10	2.8	50	2.1	2.05
264713.0600	M2.6	0.45	10	2.8	50	2.1	2.15

264715 Solid carbide taps DC, CMS nano

Metric ISO thread

VHM	M	RH	 ISO 1 (4H)	C 2-3		3		
 ≤2 x D		P	M	K	N	S	H	O
								



spiral grooves 12°, right-hand helix









Power class CMSnano

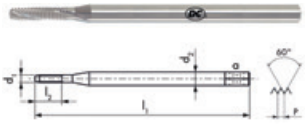
For brittle materials like short chip brass, grey cast iron, Cube2, aluminium alloy with Si > 5 %

Order ID	d	P	l2	d2	l1	Ø
264715.0100	M0.3	0.08	1.1	1.5	32	0.23
264715.0200	M0.35	0.09	1.3	1.5	32	0.28
264715.0300	M0.4	0.1	1.5	1.5	32	0.32
264715.0400	M0.5	0.125	1.8	1.5	32	0.41
264715.0500	M0.6	0.15	2.2	1.5	32	0.5
264715.0600	M0.7	0.175	2.6	1.5	32	0.58
264715.0700	M0.8	0.2	3	1.5	32	0.66
264715.0800	M0.9	0.225	3.3	1.5	32	0.74
264715.0900	M1	0.25	3.7	0.25	32	0.75
264715.1000	M1.2	0.25	4.5	0.25	32	0.95
264715.1100	M1.4	0.3	5.2	0.3	32	1.1

264716 Solid carbide taps DC, CMS nano

Metric ISO thread

VHM	M	RH 	 ISO 2 (6H)	C 2-3 		3		
 <2 x D		P	M	K	N 	S	H	O 



spiral grooves 12°, right-hand helix

Power class CMSnano

For brittle materials like short chip brass, grey cast iron, Cube2, aluminium alloy with Si > 5 %

Order ID	d	P	l2	d2	l1	Ø
264716.0100	M1.6	0.35	6	2	32	1.25
264716.0200	M1.8	0.35	6.7	2	32	1.45
264716.0300	M2	0.4	7.5	3	39	1.6
264716.0400	M2.3	0.4	8.6	3	39	1.9
264716.0500	M2.5	0.45	9.3	3	39	2.05
264716.0600	M2.6	0.45	9.7	3	39	2.15

417371 FUTURO replacement parts for cleaning propeller

Order ID	Type	Contents
417371.0100	1 / 260	1x propeller with positioning and spring retaining pin
417371.0200	4 / 260	4x propeller with positioning and spring retaining pin
417371.0300	Set M	1x hook washer, 1x step washer, 1x lock nut, 4x springs

FUTURO





418631    Magnetic V-block NERIOX

NERIOX

4 magnetic adhesive surfaces (top and bottom), which are switched on and off together.

Order ID		418631.0100	418631.0200
Height	mm	72	100
Width	mm	56	75
Length	mm	80	115
Adhesive strength	N	550...700	850...1000
Weight	kg	3	5,5
Parallelism	µm	50 / 100	50 / 100
Angularity	µm	70 / 100	70 / 100
Width V-block	mm	36	48
Work piece Ø	mm	6...40	6...60





428915    Portable tool case equipped FUTURO



Very robust, hard-shell tool case, made of scratch-resistant, impact-resistant and shatterproof polypropylene, solid aluminium frame, 2 metal locks; 1 main panel with **FLEXI POUCHES** tool holders on both sides, 1 base compartment with **FLEXI POUCHES** tool holders on one side, ergonomic rubber-coated handle, document wallet, base compartment with adjustable dividers, address frame, ball-bearing rollers, telescopic handle.

**FLEXI POUCHES:** Extremely elastic band for better hold of the tools, suitable for a wide range of sizes. The correct position of the tools is always guaranteed, even if the case is turned over. **Includes FUTURO premium tools.**

428915.0100 consisting of:

- 109054.0050 Digital caliper FUTURO depth gauge round Ø 1.5 mm 150B / 0.01 / IP67
- 159620.0100 Steel tape measure FUTURO GRIP tape width 16 mm 3 m
- 418805.0100 Telescopic magnetic pick-up tool FUTURO Ø 8 x 150...660 mm
- 421505.0400 Combination ratchet wrench FUTURO 8
- 421505.0500 Combination ratchet wrench FUTURO 9
- 421505.0600 Combination ratchet wrench FUTURO 10
- 421505.0700 Combination ratchet wrench FUTURO 11
- 421505.0800 Combination ratchet wrench FUTURO 12
- 421505.0900 Combination ratchet wrench FUTURO 13
- 421505.1000 Combination ratchet wrench FUTURO 14
- 421505.1100 Combination ratchet wrench FUTURO 15
- 421505.1200 Combination ratchet wrench FUTURO 16
- 421505.1300 Combination ratchet wrench FUTURO 17
- 421505.1400 Combination ratchet wrench FUTURO 18
- 421505.1500 Combination ratchet wrench FUTURO 19
- 424045.0100 Hex L key set FUTURO SmartHEX with ball head, 1.5 to 10 mm
- 425270.0500 Screwdriver FUTURO T 10
- 425270.0600 Screwdriver FUTURO T 15
- 425270.0700 Screwdriver FUTURO T 20
- 425270.0800 Screwdriver FUTURO T 25
- 425270.0900 Screwdriver FUTURO T 27
- 434385.0100 Screwdriver set FUTURO SLOT 1-6 / PH 1-3
- 440185.0100 Pliers set FUTURO 4-piece
- 452030.0200 Machinist hammer FUTURO 300
- 457160.0100 Universal safety knife FUTURO Blade width 9 mm / length 165 mm
- 457190.0100 Replacement blades FUTURO 9 mm / Pack of 10
- 550448.0100 Wheeled case FUTURO 465 x 352 x 255 mm
- 561155.0100 LED torch and inspection lamp FUTURO Ø 35 x 190 mm/Ø 35 x 353 mm

428915.0200 consisting of:

- 109054.0050 Digital caliper FUTURO depth gauge round Ø 1.5 mm 150B / 0.01 / IP67
- 159620.0100 Steel tape measure FUTURO GRIP tape width 16 mm 3 m
- 418805.0100 Telescopic magnetic pick-up tool FUTURO Ø 8 x 150...660 mm
- 421505.0400 Combination ratchet wrench FUTURO 8
- 421505.0500 Combination ratchet wrench FUTURO 9
- 421505.0600 Combination ratchet wrench FUTURO 10
- 421505.0700 Combination ratchet wrench FUTURO 11
- 421505.0800 Combination ratchet wrench FUTURO 12
- 421505.0900 Combination ratchet wrench FUTURO 13
- 421505.1000 Combination ratchet wrench FUTURO 14
- 421505.1100 Combination ratchet wrench FUTURO 15
- 421505.1200 Combination ratchet wrench FUTURO 16
- 421505.1300 Combination ratchet wrench FUTURO 17
- 421505.1400 Combination ratchet wrench FUTURO 18
- 421505.1500 Combination ratchet wrench FUTURO 19
- 424045.0100 Hex L key set FUTURO SmartHEX with ball head, 1.5 to 10 mm
- 425270.0500 Screwdriver FUTURO T 10
- 425270.0600 Screwdriver FUTURO T 15
- 425270.0700 Screwdriver FUTURO T 20
- 425270.0800 Screwdriver FUTURO T 25
- 425270.0900 Screwdriver FUTURO T 27
- 434385.0100 Screwdriver set FUTURO SLOT 1-6 / PH 1-3
- 437628.0100 Blade set FUTURO 15
- 440185.0100 Pliers set FUTURO 4-piece
- 452030.0200 Machinist hammer FUTURO 300
- 457160.0100 Universal safety knife FUTURO Blade width 9 mm / length 165 mm
- 457190.0100 Replacement blades FUTURO 9 mm / Pack of 10
- 550448.0100 Wheeled case FUTURO 465 x 352 x 255 mm
- 561155.0100 LED torch and inspection lamp FUTURO Ø 35 x 190 mm/Ø 35 x 353 mm
- 565390.0100 FUTURO cordless drill/driver 18 V, 2 x 4.0 Ah

Order ID	Parts	Size mm
428915.0100	58	465 x 352 x 255
428915.0200	80	465 x 352 x 255

FUTURO



428915.0100



428915.0200



428915.0100/0200

490010 Disc brush with shaft ZEINTRA smartcel

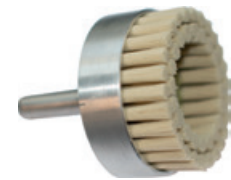
With the **smartcel** brushes, **no additional liquids or pastes are needed** when polishing. The cellulose bristles have a **diamond powder** incorporated into the bristle filament. Since polishing pastes can be dispensed with, there is **no need to clean residues from the components**. Thanks to the **cellulose** carrier material, there is **no need to fear material transfer (smearing or melting)** on the component, even at high speeds.

**Advantage:**  
Exclusion of smearing and melting during the machining process.  
No additional fluids or pastes required

**Application:**  
Polishing

Use in CNC machining centres or handling system, e.g. angle grinder for dry machining or optionally with oil cooling.

Order ID	Ø x width mm	Filament-Diamant	Shaft Ø mm	Max. Speed min <sup>-1</sup>
490010.0100	60 x 75	0.15 mm, 10–20 µm	10	3000
490010.0200	60 x 75	0.20 mm, 5.5–8 µm	10	3000



490011 Disc brush with shaft ZEINTRA smartcel

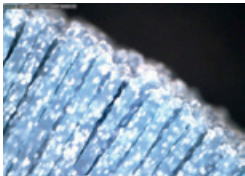
In the production process of the **smartcel** brushes, a **ceramic powder** is incorporated into the bristle filament of the cellulose bristles. Compared to conventional brushes with abrasive grit, the **cellulose-ceramic filament** shows a **multiple deburring performance** even at low contact pressure when deburring tough hard materials. Thanks to the **cellulose** carrier material, there is **no need to fear material transfer (smearing or melting)** on the component, even at high speed.

**Advantage:**  
Exclusion of smearing and melting during the machining process.  
Multiple deburring performance compared to conventional brushes

**Application:**  
Deburring

Use in CNC machining centres or handling system for dry machining or optionally with oil cooling.

Order ID	Ø x width mm	Filament-Keramik	Shaft Ø mm	Max. Speed min <sup>-1</sup>
490011.0100	60 x 75	Filament 0.50 mm, K120	10	3000



491010 Circular brush ZEINTRA smartcel

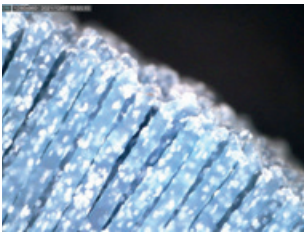
In the production process of the **smartcel** brushes, a **ceramic powder** is incorporated into the bristle filament of the cellulose bristles. Compared to conventional brushes with abrasive grit, the **cellulose-ceramic filament** shows a **multiple deburring performance** even at low contact pressure when deburring tough hard materials. Thanks to the **cellulose** carrier material, there is **no need to fear material transfer (smearing or melting)** on the component, even at high speed.

**Advantage:**  
Exclusion of smearing and melting during the machining process.  
Multiple deburring performance compared to conventional brushes

**Application:**  
Deburring

Use in CNC machining centres or handling system for dry machining or optionally with oil cooling.

Order ID	Ø x width mm	Filament-Keramik	Hole mm	Max. Speed min <sup>-1</sup>
491010.0100	80 x 20	0.50 mm, K120	20	5000



491011 Circular brush ZEINTRA smartcel

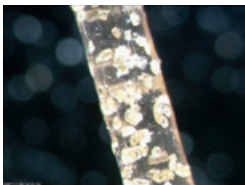
With the **smartcel** brushes, **no additional liquids or pastes are needed** when polishing. The cellulose bristles have a **diamond powder** incorporated into the bristle filament. Since polishing pastes can be dispensed with, there is **no need to clean residues from the components**. Thanks to the cellulose carrier material, there is **no need to fear material transfer (smearing or melting)** on the component, even at high speeds.

**Advantage:**  
Exclusion of smearing and melting during the machining process.  
No additional fluids or pastes required

**Application:**  
Polishing

Use in CNC machining centres or handling system, e.g. angle grinder for dry machining or optionally with oil cooling.

Order ID	Ø x width mm	Filament-Diamant	Hole mm	Max. Speed min <sup>-1</sup>
491011.0100	80 x 20	0.15 mm, 10–20 µm	20	5000
491011.0200	80 x 20	0.20 mm, 5.5–8 µm	20	5000



491012 Holding arbor for circular brush ZEINTRA smartcel

Rustproof clamping shaft for circular brush smartcel ZEINTRA

Order ID	Shaft Ø mm	Shank length mm
491012.0100	8	51



515835 Activator ERGO

Type 1093

This activator has been specially developed for glass, ceramic or sintered materials to glue parts within seconds at room temperature.

Product instructions:

If necessary, mark the surfaces to be glued on the opposite side, clean thoroughly and then wipe dry with a clean cloth or heat with a hot air blower to remove moisture, allow the glass to cool. Apply the activator to one of the surfaces to be glued using the brush attached to the lid. In the case of glass/metal, apply the activator on the glass surface. The activator is solvent-free, needs to be in a liquid form to cure and must therefore not be left to dry out. Tear off the locking ring of the adhesive bottle, open the bottle by turning the cap, apply the adhesive thinly and evenly to the metal or the other glass surface. Using light pressure, press the metal surface against the activated position of the glass surface for about 20 seconds. Remove excess adhesive immediately (at the latest 40 seconds after gluing) with a cloth. 50% pressure can be applied to the bonding after 15 to 20 minutes.



Usable with:

517290 Glass-metal structural adhesive ERGO Type 1451

Order ID	Contents ml	Type
515835.0100	10	1093
Symbols of danger	GHS7	
H phrases	H319, H317	
P phrases	P261, P280, P302+P352, P305+P351+P338, P333+P313	

517290 Glass-metal structural adhesive ERGO

Type 1451

Medium viscosity, **elasticised two-component adhesive system (with activator 1093)** which is suitable for all applications for which **good shear and/or impact strength on glass, ceramic and metal** and combinations of these materials are required. Even glues materials with widely varying expansion coefficients. Excellent physical properties allow the product to be used even under difficult conditions, such as fluctuations in temperature and climate. This product is also recommended for magnetic materials (ferrites).

Features and benefits

- + Optimal compromise between hardness, strength and impact strength
- + Excellent suitability for metal/glass adhesives (vehicle rear-view mirrors)
- + 100% reactive substance
- + Extremely fast curing with the activator



Appropriate accessories:

515835 Activator ERGO Type 1093

Order ID	517290.0100	
Bottle	ml	50
Type	1451	
Colour	Slightly yellowish	
Joint max.	mm	0.1
Initial curing time at 22 °C	s	20
Final strength at 22 °C	h	4
Shear strength	N/mm²	18
Temperature range	°C	-55...+120
Viscosity	mPa·s	100000
Symbols of danger	GHS5, GHS7	
H phrases	H315, H317, H318, H335, H412	
P phrases	P261, P280, P304+P340, P305+P351+P338, P310, P333+P313	

530183 ATG knitted gloves

MaxiFlex® Endurance™ 42-844



As a pair, **breathable micro-foam coating, with nubs** on seamless knitted nylon lining, ergonomic fit, excellent grip and especially good tactile feel, **touch screen compatible**. **Palm thickness 1.0 mm, length 250 mm.**  
CE Category II; EN388:4131A



AD-APT technology:

1. Regulation for a pleasantly cool feeling

Micro-capsules in the glove lining are activated by movement and heat. They release natural, cooling substances that keep hands dry and cool.

2. Ventilation for a fresher feeling when wearing

The AIRtech technology integrated in the MaxiFlex coating consists of a network of structured tunnels that guarantee optimal air quality and temperature in the glove.

3. Circulation for a productive feeling

When your hands are working, their movements push air through the patented structured tunnels in the AIRtech coating of the tight-fitting MaxiFlex glove. This provides 360° breathability, draws away moisture and guarantees optimal air quality and temperature in the glove. This property is now improved further thanks to the new AD-APT technology.

Pack of 12 pairs

Price per pair

Order ID	Size
530183.0100	7
530183.0200	8
530183.0300	9
530183.0400	10
530183.0500	11

530184 ATG knitted gloves

MaxiFlex® Ultimate™ 42-874



As a pair, **breathable micro-foam coating** on seamless knitted nylon lining, ergonomic fit, excellent grip and especially good tactile feel, **touch screen compatible**. **Palm thickness 1.0 mm, length 250 mm.**  
CE Category II, EN388:4131A



AD-APT technology:

1. Regulation for a pleasantly cool feeling

Micro-capsules in the glove lining are activated by movement and heat. They release natural, cooling substances that keep hands dry and cool.

2. Ventilation for a fresher feeling when wearing

The AIRtech technology integrated in the MaxiFlex coating consists of a network of structured tunnels that guarantee optimal air quality and temperature in the glove.

3. Circulation for a productive feeling

When your hands are working, their movements push air through the patented structured tunnels in the AIRtech coating of the tight-fitting MaxiFlex glove. This provides 360° breathability, draws away moisture and guarantees optimal air quality and temperature in the glove. This property is now improved further thanks to the new AD-APT technology.

Pack of 12 pairs

Price per pair

Order ID	Size
530184.0100	7
530184.0200	8
530184.0300	9
530184.0400	10
530184.0500	11

530249 ATG knitted gloves

MaxiFlex® Cut™ 34-8743



As a pair, **breathable micro-foam coating** on seamless knitted nylon lining, ergonomic fit, excellent grip and especially good tactile feel, touch screen compatible. **Palm thickness 0.85 mm, length 250 mm.**

CE Category II

EN 388:4331B

Pack of 12 pairs

Price per pair

Order ID	Size
530249.0100	6
530249.0200	7
530249.0300	8
530249.0400	9
530249.0500	10
530249.0600	11



530273 ATG knitted gloves

MaxiCut® Ultra™ 44-3745



**Ultra-light cut protection gloves with nitrile microfoam coating**, palm thickness 1.00 mm, length (size 10) 24 cm, Air Tech® technology provides 360° breathability, perfect fit ensures effortless working and increased wearing comfort, reinforced thumb joint increases the product's life, silicone-free and **touch screen compatible**.

CE category II

EN 388:2016 + A1:2018 4542C

Pack of 12 pairs

Price per pair

Order ID	Size
530273.0100	7
530273.0200	8
530273.0300	9
530273.0400	10
530273.0500	11



530428 Disposable nitrile glove Kimberly Clark

98185 G5 STERLING



Made of very thin, 100% catalyst-free nitrile, **powder-free**, rolled wristband, textured surface for **optimal sensitivity and grip**, feels like a „second skin“, patented low-modulus formula, tear-off capability, ambidextrous (can be easily used on either hand), great freedom of movement for the wrist. In dispenser box with 50 pieces. **Thickness: 0.10 mm.**

CE category III

Pack of 250

Order ID	Size
530428.0100	S
530428.0200	M
530428.0300	L



530623 Knitted gloves ATG

MaxiCut® Ultra™ 44-4745



High-quality , **universal cut protection gloves**, knitted cuff, coated palm for work in dry conditions and silicone-free (suitable for handling paints). Length 25 cm, palm thickness 1.25 mm.

CE category II

EN 388:4343D

Pack of 12 pairs

Price per pair

Order ID	Size
530623.0100	8
530623.0200	9
530623.0300	10
530623.0400	11



530624 Latex gloves ATG

MaxiChem® with TRItect™ 76-730



High-quality protective gloves for handling chemicals and foodstuffs, combined with mechanical strength, blue, length 35 cm, palm thickness 1.10 mm.

CE category III  
EN 388:3131A  
EN 374-1:2003 KLMNOP  
EN 407:X1XXXX  
Pack of 12 pairs  
Price per pair



Order ID	Size
530624.0100	8
530624.0200	9
530624.0300	10
530624.0400	11

533028 Hygiene mask Foliadress®

mask Comfort Loop, Type II R

Hypoallergenic, particularly supple nonwoven fabric, special micro-germ filter ensures unhindered breathing with optimal filter performance  
Free from natural latex. Has a long, integrated nose bridge, extremely durable and odourless.  
Single-use hygiene mask, non-sterile, three-layer filter medium, does not contain fibreglass, odourless, does not contain latex, green, triple-folded, bacteria filtering performance of over 98%, with elasticated strap and integrated nose bridge for high wearing comfort, also suitable for spectacle wearers.

Protects people and the environment from droplets and other large particles expelled by the wearer when speaking and exhaling. The wearer's face is also protected against splashes of blood and other liquids. Hygiene masks do not provide breathing protection, as neither the filters nor the loose fit can protect against small particles.

Intended use: Minimise the transmission of pathogens.  
CE Category I  
EN 14683:2019 type II R  
Box of 50



Order ID	533028.0100
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533271 Respirator Allmed

FFP2

EN 149:2001+A1:2009

Suitable for protection against non-toxic solid and liquid aerosols. This filtering respirator is classified as Category III in accordance with Regulation (EU) 2016/425. It is a disposable mask that protects the user.

Box of 51 pieces, 3 layers always hygienically packed in polybag.

Order ID	Filter class	up to MAK value
533271.0100	FFP2	4x





533513 Visor with neck protection SUNITY

SunCool 2, grey/orange

This visor with neck protection was developed in Switzerland in cooperation with medical specialists, industry representatives and the authorities as an attachment for industrial safety helmets. It protects particularly exposed areas of the head, such as the neck, ears, forehead and nose, from harmful UV radiation in order to prevent skin cancer.

Usable with:

- 533502 Safety helmet 3M PELTOR G3000
- 533503 Safety helmet Pro Cap
- 533504 Safety helmet D!Rock
- 533520 Safety helmet VOSS INAP-Master

- **UV protection:** The fabric and visor offer the highest level of UV protection of UPF 50+ according to the Australian standard
- **Antibacterial:** The skin-friendly fabric with antibacterial properties prevents bad odours
- **High compatibility:** The product fits almost all commercially available safety helmets
- **Cooling effect:** The special properties of the fabric provide a cooling effect of approximately 1–2°C or more
- **Optimal field of view:** Thanks to a transparent visor and ergonomically shaped neck protection
- **Good grip:** A silicone layer ensures a good grip on the safety helmet, meaning nothing will slip out of place
- **Ventilation:** Air vents in the neck guard ensure comfortable ventilation and prevent heat building up
- **Flexibility:** The flexible visor bends during any impact
- **Quick dry:** The fabric dries quickly
- **Dimensions:** Width 19.5 cm/length 30 cm

Order ID	533513.0100
Colour	Grey/orange



534096 Safety low shoes S1 UVEX

1 BOA®



100% metal-free uvex xenova® toe cap

Sporty, multifunctional safety shoe, particularly lightweight and flexible, made using new last technology for **exceptional comfort**, optimised comfort thanks to uvex climazone technology, breathable, **perforated high-tech microvelour upper**, optimal ventilation due to Distance Mesh lining material, suitable for those with chromium allergies as the shoe is made from synthetic materials, Boa Fit System rotary lock for long-term comfort, virtually seamless design to eliminate pressure points, removable anti-static comfort insole with moisture transport system and additional **shock absorption around the heel and forefoot**, soft padding around the collar and tongue, special double-density polyurethane sole with optimum shock-absorbing properties and very good non-slip properties, free from paint-wetting impairment substances such as silicones, plasticisers etc., meets ESD requirements: Discharge resistance of < 35 megaohms.



Alternatively also available:

- 534069 Safety low shoes S1 UVEX 1 SRC
- 534112 Safety sandals S1 UVEX 1 SRC
- 534210 Safety low shoes S2 UVEX 1 SRC
- EN ISO 20345:2011 S1 SRC
- Width 10

Order ID	Size	Order ID	Size
534096.0100	35	534096.1000	44
534096.0200	36	534096.1100	45
534096.0300	37	534096.1200	46
534096.0400	38	534096.1300	47
534096.0500	39	534096.1400	48
534096.0600	40	534096.1500	49
534096.0700	41	534096.1600	50
534096.0800	42	534096.1700	51
534096.0900	43	534096.1800	52



534706 Special detergent NIKWAX Tech Wash

Cleaning for waterproof, breathable garments and accessories..

Nikwax Tech Wash® has been specially developed and optimised for breathable, waterproof fabrics. Nikwax Tech Wash® is a highly effective cleaner. In addition, the product refreshes the existing durable water repellent protection (DWR) and breathability. This method is guaranteed to thoroughly clean your waterproof clothing and equipment. Application in the washing machine is quick, easy and ensures that the entire garment is thoroughly cleaned.

Advantages:

- Provides excellent cleaning performance, even at 30°C.
- Proven to refresh water repellency and breathability.
- Suitable for Primaloft.

Instructions for use:

- Max. 2 garments per wash cycle.
- Dosage: 100 ml for soft water , 150 ml for hard water.
- Wash according to garment care label.

Order ID	Contents ml
534706.0100	300
534706.0200	1000
Symbols of danger	GHS7
H phrases	H319



300 ml

534709 Impregnation NIKWAX Softshell Proof Wash-In

Durable wash-in waterproofing specifically for softshell garments..

Nikwax SoftShell Proof™ Wash-In is quick and easy to apply in the washing machine, and its high-level durable water repellency (DWR) forms during air drying. Application in the washing machine ensures that the product penetrates the garment, treating seams, seals and cords as well as the fabric. What's more, tumble drying becomes unnecessary. This saves energy and protects delicate, older clothing from heat. Nikwax SoftShell Proof™ Wash-In has been specially developed and optimised for soft shell garments. It leaves a flexible, water-repellent layer on individual fibres, allowing moisture to pass through as it evaporates and maintaining breathability.

Advantages:

- Perfectly enhances weather protection.
- Easy and quick application at home in the washing machine.
- Maintains breathability.
- Forms complete water repellency without tumble drying.

Instructions for use:

- Clean garments first with NIKWAX Tech Wash.
- Shake product well before use.
- Max. 2 garments per wash.
- Dosage per garment: 100 ml.
- Air dry garments.

Appropriate accessories:

534706 Special detergent NIKWAX Tech Wash

Order ID	Contents ml
534709.0100	300
H phrases	EUH210



537295 Accessories PEVALIN

Designs:

- 537295.0100 Dispenser for 3l tub incl. wall bracket
- 537295.0200 Dispenser for 10l tub

Usable with:

537290 Hand cleaner PEVALIN

Order ID	Type	Designation
537295.0100	56279	Dispenser for 3 litre tub
537295.0200	56280	Dispenser for 10 litre tub



539825 Tool trolley FACOM

**Facom Jet M3AS, holding capacity of three tool modules per drawer;** drawers are fully extendable with self-closing return spring for efficient and secure closing, extremely robust sheet steel construction with SOFT buffers on the four corners. Equipped with the **Safety Lock System**, which prevents several drawers from being opened at the same time, therefore preventing the trolley from falling forwards. Reinforced worktop consisting of a 2-mm deep-drawn aluminium plate covering a 15-mm wooden board, fully integrated handle, retractable side edges with holders for eight screwdrivers. Centralised locking system with foldable key; 4 high-performance wheels with a diameter of 125 mm, 2 swivelling, 2 fixed, each with a locking brake; epoxy powder coating. Perforated sides for attaching tools using hooks or holders. Various accessories can be attached to the sides and back panel, such as holders for canisters, additional cabinets etc.

Order ID	539825.0100
Type	JET.8NM3AS
Colour	RAL 9005/black
Width	mm 814
Height	mm 1005
Depth	mm 575
Number of drawers	8
Drawer height	mm 6 x 60 2 x 130
Drawers usable area	mm 569 x 421
Weight	kg 80



550355 Tool case NERIOX

Very lightweight, compact and resistant, made of polypropylene. 2 side locks, robust handle; 1 tool panel with 12 pockets on the back and 8 pockets on the front, 1 tool panel with 14 pockets on one side, bottom compartment with 3 dividers and 2 boxes for small parts. Contents shown not included.

Order ID	Dimensions mm	Support capacity kg	Weight kg
550355.0100	430 x 340 x 156	15...20	3

NERIOX



550485 Portable tool case NERIOX



Made of polypropylene, extremely resistant to corrosion and high or low temperatures, very robust and lightweight; 1 tool panel with 6 pockets and document wallet on the back, 12 pockets and elastic strap for 8 tools on the front, 1 tool panel with 6 pockets and elastic strap for 8 tools on one side; bottom compartment with adjustable dividers and 2 boxers for small parts; 2 side locks and 1 central lock, with robust handle and telescopic handle, ball-bearing rollers. Contents shown not included.

Order ID	Internal size mm	Support capacity kg	Weight kg
550485.0100	430 x 320 x 160	15...20	5

NERIOX



552095 Wet and dry vacuum cleaner KÄRCHER



WD 5 S V-25/6/22 offers the best cleaning results for dry, wet, fine or coarse dirt with components that work perfectly with each other. Robust **25-litre stainless steel container**, removable, electrostatic-protected handle, reversible floor nozzle, flat pleated filter and fleece filter bag. The flat pleated filter is suitable **for non-stop wet and dry suction with no need to change the filter**. Thanks to the patented filter removal technology, users can remove the flat pleated filter in seconds without coming into contact with any dirt. Pressing the cleaning button efficiently cleans the filter and quickly restores the suction power. The removable handle allows accessories to be attached directly to the suction hose. This can be stored in a space-saving and safe way by securing the hose to the head of the appliance. The tubes and floor nozzle can also be quickly and conveniently stowed in the parking position provided on the bumper while taking a break from work.

Scope of delivery:

**552095.0100** Wet and dry vacuum cleaner KÄRCHER WD 5 S V-25/6/22, 2.2-metre suction hose with curved handle, 2 x 0.5-metre suction tube, wet/dry interchangeable suction nozzle, crevice nozzle, fleece filter bag, flat pleated filter

Appropriate accessories:

552090 Accessories KÄRCHER

Order ID		552095.0100
Type		WD 5 S V-25/6/22
Power consumption	W	1100
Container capacity	l	25
Container		Stainless steel
Cable length	m	6
Dimensions	mm	418 x 382 x 646
Weight	kg	8.6



561465 Battery-powered LED headlamp NERIOX



Practical, versatile battery-powered LED headlamp with **two light modes** (low and high power), integrated lithium-ion battery with charging via micro USB, can be easily switched on and off even with gloves thanks to **sensor technology**, the light can always be positioned as wished thanks to the **tiltable lamp head**, universally adjustable elastic headband, integrated anti-slip strip ensures secure grip and is also suitable for safety helmets, robust housing, shock- and impact-resistant, dust- and splash-proof.

Scope of delivery:

**561465.0100** Battery-powered LED headlamp NERIOX 300 lm, 1-metre USB-C charging cable

Appropriate accessories:

564055 USB charging unit

Order ID		561465.0100
Luminous flux		lm
		300
Battery voltage	V	3.7
Battery capacity	Ah	1.5
Luminous period	h	6 / 2
Light temperature	K	6500
Charging time	h	2.5
Protection class		IP 65
Working temperature	°C	-10...+40
Dimensions	mm	78 x 47.5 x 42
Weight	g	150

NERIOX



561750 Battery-powered LED work light NERIOX

NERIOX



Small power pack with **four light modes** (spot, flood low, mid and high power), integrated lithium-ion battery with charging via **USB-C**, the light can be adjusted in almost any direction you like using the **180° adjustable foot**, the light is free-standing thanks to its wide base and the **integrated magnet** can be used to attached it to any ferrous surface. Due to the small size it is also suitable as a hand lamp, the spotlight mode (spot) also allows the lamp to be used for inspection work. Robust housing, shock- and impact-resistant, dust- and splash-proof.



Scope of delivery:

561750.0100 Battery-powered LED work light NERIOX 1400 lm, 1 metre USB-C charging cable

Appropriate accessories:

564055 USB charging unit

Order ID	561750.0100	
Luminous flux	lm	1400
Battery voltage	V	3.7
Battery capacity	Ah	5.2
Luminous period	h	6 / 7 / 4.5 / 3
Light temperature	K	6500
Charging time	h	4.5
Protection class		IP 65
Working temperature	°C	-10...+40
Dimensions	mm	116 x 41.5 x 101
Weight	g	400

597630 Cordless impact drill/driver BOSCH

Bosch GSB 18V-55, long service life and high quality thanks to **full-metal drill chuck and brushless EC motor**. Innovative functions such as precision clutch and KickBack Control. The device is suitable for drilling and impact drilling in wood, steel and masonry and for screw diameters up to 10 mm. Electronic motor protection, LED light, metal gearbox and clockwise and anticlockwise rotation.



Scope of delivery:

597630.0100 Cordless impact drill/driver GSB 18V-55, 2 x 3.0 Ah lithium-ion batteries GBA 18V, quick charger GAL 18V-20, L-BOXX

Appropriate accessories:

565375 Li-ion batteries GBA BOSCH  
565378 Li-ion batteries ProCORE BOSCH  
565380 Chargers BOSCH  
565644 Multi-charger BOSCH  
566430 Rechargeable battery starter pack 18 V BOSCH clic & go  
597999 36-month full service package BOSCH

Order ID	597630.0100	
Type		GSB 18V-55
Battery voltage	V	18
Battery capacity	Ah	3.0
Drill chucks	mm	1.5...13
Idle speed	min <sup>-1</sup>	0...1800
Torque Settings		20+2
hard threaded fastener	Nm	55
Soft threaded fastener	Nm	28
for wood	mm	35
for steel	mm	13
for concrete	mm	13
Screw Ø max.	mm	10
Weight without battery	kg	1.1

597635 Cordless drill/driver BOSCH

**Bosch GSR 12V-15**, practical, compact power pack. Shortest head length and low height for working in hard-to-reach places, powerful two-speed gearbox for screwdriving and drilling, 20 torque levels + drilling setting, infinitely variable speed regulation, motor brake, integrated LED light.

**Scope of delivery:**  
**597635.0100** Cordless drill/driver GSR 12V-15, **2 x 4.0 Ah Li-ion battery GBA 12V**, charger AL 1115 CV, **25-piece bit set**, **7-piece metal drill bit set**, **7-piece wood drill bit set**, tool bag

**Appropriate accessories:**  
565375 Li-ion batteries GBA BOSCH  
565380 Chargers BOSCH  
566400 Rechargeable battery starter pack 12 V BOSCH clic & go  
597999 36-month full service package BOSCH

Order ID		597635.0100
Type		GSR 12V-15
Battery voltage	V	12
Battery capacity	Ah	4.0
Drill chucks	mm	1...10
Idle speed	min <sup>-1</sup>	0...350 / 0...1300
hard threaded fastener	Nm	30
Soft threaded fastener	Nm	15
for wood	mm	19
for steel	mm	10
Screw Ø max.	mm	7
Dimensions	mm	169 x 178
Weight without battery	kg	0.95



597640 Cordless drill/driver BOSCH

**Bosch GSR 18V-110 C**, extremely powerful cordless drill/driver of the 18-volt class **with 110-Nm torque** and brushless motor. Robust all-metal drill chuck for the toughest work environments, no overloading thanks to precision clutch, two-speed gearbox, 25 torque settings + drilling setting, infinitely variable speed regulation, motor brake and KickBack Control.

**Scope of delivery:**  
**597640.0100** Cordless drill/driver GSR 18V-110 C, **3 x 5.0 Ah lithium-ion batteries GBA 18 V**, quick charger GAL 18V-40, L-BOXX

**Appropriate accessories:**  
565375 Li-ion batteries GBA BOSCH  
565378 Li-ion batteries ProCORE BOSCH  
565380 Chargers BOSCH  
565644 Multi-charger BOSCH  
566430 Rechargeable battery starter pack 18 V BOSCH clic & go  
597999 36-month full service package BOSCH

Order ID		597640.0100
Type		GSR 18V-110 C
Battery voltage	V	18
Battery capacity	Ah	5.0
Drill chucks	mm	1.5...13
Idle speed	min <sup>-1</sup>	0...480 / 0...2100
Torque max.	Nm	110
hard threaded fastener	Nm	85
Soft threaded fastener	Nm	47
for wood	mm	82
for steel	mm	13
Screw Ø max.	mm	12
Weight without battery	kg	2.2



597650 Cordless drill/driver BOSCH

**Bosch GSR 18V-55**: A robust, durable cordless drill/driver with **13-mm metal drill chuck and brushless motor**. Full control thanks to KickBack Control with automatic switch-off if the drill/driver jams, as well as precision clutch. Bosch lithium-ion technology with Electronic Cell Protection protects against overloading, overheating and deep discharge. Comfortable soft grip makes for perfect handling and low user fatigue. Two-speed planetary gear, integrated LED light, clockwise/anti-clockwise rotation, battery charge indicator.

**Appropriate accessories:**  
565375 Li-ion batteries GBA BOSCH  
565378 Li-ion batteries ProCORE BOSCH  
565380 Chargers BOSCH  
565644 Multi-charger BOSCH  
566430 Rechargeable battery starter pack 18 V BOSCH clic & go  
597999 36-month full service package BOSCH

Order ID		597650.0100
Type		GSR 18V-55
Battery voltage	V	18
Battery capacity	Ah	4.0
Drill chucks	mm	1.5...13
Idle speed	min <sup>-1</sup>	0...450 / 0...1750
hard threaded fastener	Nm	55
Soft threaded fastener	Nm	28
for wood	mm	35
for steel	mm	13
Screw Ø max.	mm	8
Weight without battery	kg	1



597660 Cordless drill/driver BOSCH

**Bosch GSR 18V-55:** A robust, durable cordless drill/driver with **13-mm metal drill chuck and brushless motor**. Full control thanks to KickBack Control with automatic switch-off if the drill/driver jams, as well as precision clutch. Bosch lithium-ion technology with Electronic Cell Protection protects against overloading, overheating and deep discharge. Comfortable soft grip makes for perfect handling and low user fatigue. Two-speed planetary gear, integrated LED light, clockwise/anti-clockwise rotation, battery charge indicator.

Appropriate accessories:

- 565375 Li-ion batteries GBA BOSCH
- 565378 Li-ion batteries ProCORE BOSCH
- 565380 Chargers BOSCH
- 565644 Multi-charger BOSCH
- 566430 Rechargeable battery starter pack 18 V BOSCH clic & go
- 597999 36-month full service package BOSCH



Order ID	597660.0100	
Type	GSR 18V-55	
Battery voltage	V	18
Battery capacity	Ah	5.0
Drill chucks	mm	1.5...13
Idle speed	min <sup>-1</sup>	0...450 / 0...1750
hard threaded fastener	Nm	55
Soft threaded fastener	Nm	28
for wood	mm	35
for steel	mm	13
Screw Ø max.	mm	8
Weight without battery	kg	1

597670 Paint scraper set BAHCO

**Bahco scraper set 2,** ergonomic pocket paint scraper set, especially for precision work in hard to reach places. Carbide blades can be used to scrape off paint, glue, lacquer and rust from all kinds of surfaces, e.g. wood, metal, concrete. Narrow front end with thumb recess for greater precision. Has a two-component BAHCO ergo handle for comfortable use.



Scope of delivery:

**597670.0100** Bahco 625 paint scraper with holster and carbide blade 449, Bahco 650 paint scraper with carbide blade 442, one each of carbide blade 625-ROUND, 625-DROP and 625-PEAR

Appropriate spare parts:

- 320670 Paint scraper BAHCO Ergo
- 320675 Paint scraper replacement blade BAHCO
- 320680 Paint scraper BAHCO Ergo
- 320685 Profile scraper blade BAHCO

Order ID	Type	Parts
597670.0100	Scraper-Set 2	8

599484 Trousers PAYPER

NEXT 400, green/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ

**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. Both legs are equipped with **knee pads** in contrasting fabric (with opening from below) with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599485 Trousers PAYPER NEXT 400, navy blue/black
- 599486 Trousers PAYPER NEXT 400, khaki/black
- 599487 Trousers PAYPER NEXT 400, smoke grey/black
- 599488 Trousers PAYPER NEXT 400, black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599484.0100	42	599484.0700	54
599484.0200	44	599484.0800	56
599484.0300	46	599484.0900	58
599484.0400	48	599484.1000	60
599484.0500	50	599484.1100	62
599484.0600	52	599484.1200	64



599485 Trousers PAYPER

NEXT 400, navy blue/black

**50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ**  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. Both legs are equipped with **knee pads** in contrasting fabric (with opening from below) with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599484 Trousers PAYPER NEXT 400, green/black
- 599486 Trousers PAYPER NEXT 400, khaki/black
- 599487 Trousers PAYPER NEXT 400, smoke grey/black
- 599488 Trousers PAYPER NEXT 400, black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599485.0100	42	599485.0700	54
599485.0200	44	599485.0800	56
599485.0300	46	599485.0900	58
599485.0400	48	599485.1000	60
599485.0500	50	599485.1100	62
599485.0600	52	599485.1200	64

599486 Trousers PAYPER

NEXT 400, khaki/black

**50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ**  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. Both legs are equipped with **knee pads** in contrasting fabric (with opening from below) with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599484 Trousers PAYPER NEXT 400, green/black
- 599485 Trousers PAYPER NEXT 400, navy blue/black
- 599487 Trousers PAYPER NEXT 400, smoke grey/black
- 599488 Trousers PAYPER NEXT 400, black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599486.0100	42	599486.0700	54
599486.0200	44	599486.0800	56
599486.0300	46	599486.0900	58
599486.0400	48	599486.1000	60
599486.0500	50	599486.1100	62
599486.0600	52	599486.1200	64

599487 Trousers PAYPER

NEXT 400, smoke grey/black

**50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ**  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. Both legs are equipped with **knee pads** in contrasting fabric (with opening from below) with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599484 Trousers PAYPER NEXT 400, green/black
- 599485 Trousers PAYPER NEXT 400, navy blue/black
- 599486 Trousers PAYPER NEXT 400, khaki/black
- 599488 Trousers PAYPER NEXT 400, black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599487.0100	42	599487.0700	54
599487.0200	44	599487.0800	56
599487.0300	46	599487.0900	58
599487.0400	48	599487.1000	60
599487.0500	50	599487.1100	62
599487.0600	52	599487.1200	64



599488 Trousers PAYPER

NEXT 400, black/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ

Stretch unisex trousers that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. Both legs are equipped with **knee pads** in contrasting fabric (with opening from below) with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599484 Trousers PAYPER NEXT 400, green/black
- 599485 Trousers PAYPER NEXT 400, navy blue/black
- 599486 Trousers PAYPER NEXT 400, khaki/black
- 599487 Trousers PAYPER NEXT 400, smoke grey/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599488.0100	42	599488.0700	54
599488.0200	44	599488.0800	56
599488.0300	46	599488.0900	58
599488.0400	48	599488.1000	60
599488.0500	50	599488.1100	62
599488.0600	52	599488.1200	64

599584 Cap STIHL SIGN

100% polyester

Classic six-panel cap with a flat peak with eight rows of stitches and a raised STIHL „S“ print in bright orange. Rear snap-back closure for individual size adjustment and small flag label.



599587 Beanie STIHL LEGENDARY

70% wool (merino), 30% acrylic

The beanie boasts the typical STIHL look and although it doesn't help with fluff in your head, it keeps you wonderfully warm. It has a wide cuff and proudly bears the LEGENDARY PERFORMANCE label. Guaranteed casual, not scratchy.

Order ID	599587.0100
Size	one size



599598 Beach towel STIHL

100% cotton

Off to the beach! The bath towel has a soft, terry towelling feel and measures 80 x 180 cm, making it the ideal size for the beach, sauna or steam room. Eye-catching: large, striking STIHL logo design in black and orange.

Order ID	599598.0100
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599656 Trousers PAYPER

NEXT 4W anthracite/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and customised button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. **Both legs are equipped with knee pads in contrasting fabric (with opening from below)** with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the inside and outside of the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599657 Trousers PAYPER NEXT 4W green/black
- 599658 Trousers PAYPER NEXT 4W navy blue/black
- 599659 Trousers PAYPER NEXT 4W smoke grey/black
- 599660 Trousers PAYPER NEXT 4W black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599656.0100	42	599656.0700	54
599656.0200	44	599656.0800	56
599656.0300	46	599656.0900	58
599656.0400	48	599656.1000	60
599656.0500	50	599656.1100	62
599656.0600	52	599656.1200	64

599657 Trousers PAYPER

NEXT 4W green/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and customised button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. **Both legs are equipped with knee pads in contrasting fabric (with opening from below)** with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the inside and outside of the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599656 Trousers PAYPER NEXT 4W anthracite/black
- 599658 Trousers PAYPER NEXT 4W navy blue/black
- 599659 Trousers PAYPER NEXT 4W smoke grey/black
- 599660 Trousers PAYPER NEXT 4W black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599657.0100	42	599657.0700	54
599657.0200	44	599657.0800	56
599657.0300	46	599657.0900	58
599657.0400	48	599657.1000	60
599657.0500	50	599657.1100	62
599657.0600	52	599657.1200	64

599658 Trousers PAYPER

NEXT 4W navy blue/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and customised button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. **Both legs are equipped with knee pads in contrasting fabric (with opening from below)** with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the inside and outside of the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599656 Trousers PAYPER NEXT 4W anthracite/black
- 599657 Trousers PAYPER NEXT 4W green/black
- 599659 Trousers PAYPER NEXT 4W smoke grey/black
- 599660 Trousers PAYPER NEXT 4W black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599658.0100	42	599658.0700	54
599658.0200	44	599658.0800	56
599658.0300	46	599658.0900	58
599658.0400	48	599658.1000	60
599658.0500	50	599658.1100	62
599658.0600	52	599658.1200	64

599659 Trousers PAYPER

NEXT 4W smoke grey/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and customised button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. **Both legs are equipped with knee pads in contrasting fabric (with opening from below)** with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the inside and outside of the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599656 Trousers PAYPER NEXT 4W anthracite/black
- 599657 Trousers PAYPER NEXT 4W green/black
- 599658 Trousers PAYPER NEXT 4W navy blue/black
- 599660 Trousers PAYPER NEXT 4W black/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599659.0100	42	599659.0700	54
599659.0200	44	599659.0800	56
599659.0300	46	599659.0900	58
599659.0400	48	599659.1000	60
599659.0500	50	599659.1100	62
599659.0600	52	599659.1200	64

599660 Trousers PAYPER

NEXT 4W black/black

50% polyester, 30% cotton, 20% elastomultiester, 280 g/MQ  
**Stretch unisex trousers** that can be worn all year round, with elasticated waistband at the side, belt loops and fly with zip and customised button. Two shaped pockets on the front, one coin pocket on the right side and a safety pocket with zip on the left side. There is a bellows pocket on the front of the left leg, with a rip-tape fastening on the flap and an ID card holder. The front of the right leg has a mobile phone pocket with reflective piping and a bellows pocket. **Both legs are equipped with knee pads in contrasting fabric (with opening from below)** with reflective inserts at the opening. The back has a flap pocket with rip-tape fastening, one pocket with two reflective stripes, a yard stick pocket (right leg), reflective inserts at the knees (both legs) and contrasting kick tape (both legs). **Triple-stitched seams at the crotch and on the inside and outside of the legs, reinforcing inserts in contrasting colours in various areas.**



Alternatively also available:

- 599656 Trousers PAYPER NEXT 4W anthracite/black
- 599657 Trousers PAYPER NEXT 4W green/black
- 599658 Trousers PAYPER NEXT 4W navy blue/black
- 599659 Trousers PAYPER NEXT 4W smoke grey/black

The Flexolution series is extremely durable and comfortable to wear. The use of flexible and stretchable inserts in various sections allows for optimum freedom of movement.

Order ID	Size	Order ID	Size
599660.0100	42	599660.0700	54
599660.0200	44	599660.0800	56
599660.0300	46	599660.0900	58
599660.0400	48	599660.1000	60
599660.0500	50	599660.1100	62
599660.0600	52	599660.1200	64

642014 Universal wrench MEGA

Square pin wrench in 6, 7 and 8 mm, carrier for locks with cylinder cut-out, square mandrel 7–10 mm, hexagonal steel wrench 3 mm, measuring scale, zinc, nickel-plated.

Order ID	Version	Steps	Inside hexagon mm	Inside square	Length mm
642014.0100	Round cylinder KABA	7...10 mm	3	6 / 7 / 8	180



654049 Draw knife

With two painted handles.

Order ID	Blade width mm	Length mm
654049.0100	30	250



**675150 Construction site lamp with battery and solar power mode CRAFT TOOLS**

Combined construction site lamp with solar power mode and battery. The lamp automatically switches from solar to battery power (and vice versa), **therefore guaranteeing continuous light**, even if the sun isn't shining or it's night-time. With metal ring and key.

**Use:**

Red ON/OFF indicator light indicates whether the lamp is switched on or off. When the battery packs are depleted, the lamp automatically switches to battery power and the second indicator light turns green. This makes it clear when the lamp is running on battery power. The green indicator light starts to flash when the capacity/power of the 6-V battery drops below 20%. If neither of the two indicator lights are illuminated, the lamp is running on solar power.

Order ID
675150.0100



**675151 Folding sign NERIOX construction site**

Standard version, non-reflective, galvanised spring leg, folding, incl. protective case.

Order ID	Size cm	Version
675151.0100	60	N (day-glow)
675151.0200	90	N (day-glow)

NERIOX



**675152 Folding sign NERIOX other hazards**

Standard version, non-reflective, galvanised spring leg, folding, incl. protective case.

Order ID	Size cm	Version
675152.0100	60	N (day-glow)
675152.0200	90	N (day-glow)

NERIOX

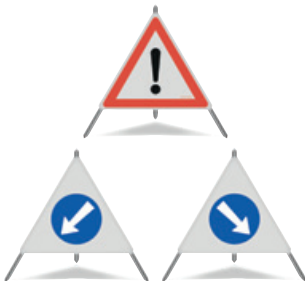


**675153 Folding sign NERIOX other hazards, arrow right/left**

Standard version, non-reflective, galvanised spring leg, folding, incl. protective case.

Order ID	Size cm	Version
675153.0100	60	N (day-glow)
675153.0200	90	N (day-glow)

NERIOX



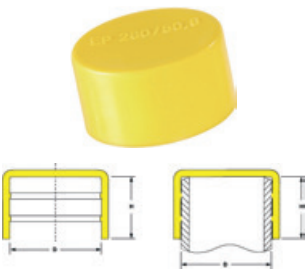
886306 Pipe protection caps CAPTOP®

EP 260

Material:  
pure and recyclable  
LLD-PE

Colour:  
yellow, natural

For the protection of pipe ends, external threads and welding bevels of steel, copper, PVC and HDPE pipes.  
The cylindrical shaft design and the internal adhesive grooves  
grooves provide the ideal fit for all different diameters.



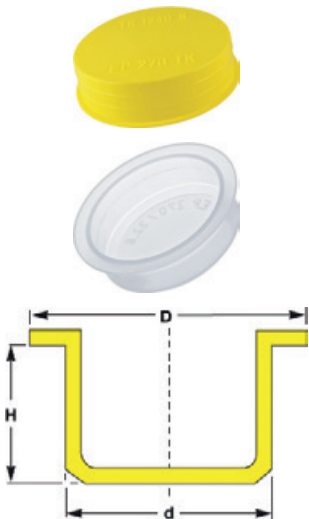
Order ID	D mm	H mm	Colour	Order ID	D mm	H mm	Colour	Order ID	D mm	H mm	Colour
886306.0010	4.0	22.0	yellow	886306.0440	52.8	28.0	natural	886306.0870	146.0	41.3	natural
886306.0020	5.0	18.7	natural	886306.0450	54.0	35.0	natural	886306.0880	149.0	40.0	natural
886306.0030	6.0	18.9	yellow	886306.0460	55.0	29.0		886306.0890	151.4	41.5	yellow
886306.0040	6.3	13.0	yellow	886306.0470	57.0	35.0	yellow	886306.0900	156.0	40.0	natural
886306.0050	7.0	18.6	yellow	886306.0480	59.0	28.6	yellow	886306.0910	159.0	37.0	yellow
886306.0060	8.2	17.2	yellow	886306.0490	60.3	32.0	yellow	886306.0920	160.0	40.0	yellow
886306.0070	9.6	14.0	yellow	886306.0500	63.5	32.0	yellow	886306.0930	165.1	40.0	yellow
886306.0080	10.2	18.6	yellow	886306.0510	65.0	35.5	yellow	886306.0940	168.3	36.0	yellow
886306.0090	11.0	19.0	yellow	886306.0520	66.5	35.0	yellow	886306.0950	176.0	42.4	yellow
886306.0100	12.0	18.5	yellow	886306.0530	67.0	36.0	yellow	886306.0960	177.8	42.7	natural
886306.0110	12.7	19.3	yellow	886306.0540	70.0	30.0	yellow	886306.0970	180.0	39.0	yellow
886306.0120	13.0	18.7	yellow	886306.0550	73.0	37.5	yellow	886306.0980	193.7	42.0	yellow
886306.0130	13.7	18.4	yellow	886306.0560	75.0	38.0		886306.0990	200.0	50.0	yellow
886306.0140	14.0	18.6	yellow	886306.0570	76.1	32.0	yellow	886306.1000	210.0	40.0	natural
886306.0150	15.0	19.1	yellow	886306.0580	77.0	35.5	natural	886306.1010	219.1	42.0	yellow
886306.0160	16.0	19.8	yellow	886306.0590	78.0	26.0	yellow	886306.1020	225.0	39.0	yellow
886306.0170	17.2	20.2	yellow	886306.0600	79.4	27.0	natural	886306.1030	232.0	42.0	natural
886306.0180	18.0	20.0	yellow	886306.0610	81.0	30.5		886306.1040	242.0	50.0	natural
886306.0190	19.0	20.0	yellow	886306.0620	82.5	30.5	yellow	886306.1050	244.5	43.0	natural
886306.0200	20.0	20.0	yellow	886306.0630	83.0	31.7	yellow	886306.1060	250.0	47.0	yellow
886306.0210	21.3	20.0	yellow	886306.0640	85.0	32.2	natural	886306.1070	267.0	41.0	natural
886306.0220	22.0	20.0	yellow	886306.0650	88.9	31.7	yellow	886306.1080	273.0	49.0	yellow
886306.0230	23.2	19.0	yellow	886306.0660	92.4	23.9	yellow	886306.1090	323.9	55.0	yellow
886306.0240	24.0	18.4	yellow	886306.0670	95.0	33.7	yellow	886306.1100	355.6	57.0	yellow
886306.0250	24.8	16.9	natural	886306.0680	100.0	40.0	natural	886306.1110	368.0	55.0	yellow
886306.0260	25.4	20.0	yellow	886306.0690	101.6	42.0	yellow	886306.1120	400.0	65.0	natural
886306.0270	26.0	18.0	yellow	886306.0700	102.0	40.0	yellow	886306.1130	406.4	62.0	yellow
886306.0280	26.9	27.6	yellow	886306.0710	103.0	39.0	natural	886306.1140	419.0	54.0	yellow
886306.0290	28.0	22.5	yellow	886306.0720	105.0	39.0	natural	886306.1150	450.0	66.0	natural
886306.0300	30.0	27.5	yellow	886306.0730	106.0	42.0	yellow	886306.1160	457.2	66.0	yellow
886306.0310	31.8	27.0	yellow	886306.0740	108.0	38.0	yellow	886306.1170	508.0	65.3	yellow
886306.0320	33.7	23.0	yellow	886306.0750	110.0	38.0	yellow	886306.1180	558.8	60.0	yellow
886306.0330	35.0	27.0	yellow	886306.0760	114.3	38.0	yellow	886306.1190	609.6	65.5	yellow
886306.0340	38.1	27.0	yellow	886306.0770	117.5	38.0	natural	886306.1200	660.4	102.0	black
886306.0350	39.0	17.0	natural	886306.0780	121.0	37.2	yellow	886306.1210	711.2	115.0	black
886306.0360	40.0	27.0	yellow	886306.0790	125.0	38.0	yellow	886306.1220	762.0	115.0	black
886306.0370	41.5	25.6	yellow	886306.0800	126.0	37.2	natural	886306.1230	812.8	115.0	black
886306.0380	42.4	32.2	yellow	886306.0810	127.0	39.0	yellow	886306.1240	914.4	115.0	black
886306.0390	44.5	35.0	yellow	886306.0820	130.0	40.0	natural	886306.1250	1016.0	115.0	black
886306.0400	45.4	20.0	yellow	886306.0830	133.0	40.0	yellow	886306.1260	1066.8	102.0	black
886306.0410	48.3	31.7	yellow	886306.0840	136.0	30.0	natural	886306.1270	1117.6	115.0	black
886306.0420	50.8	26.9	yellow	886306.0850	139.7	38.0	yellow	886306.1280	1219.2	115.0	black
886306.0430	52.0	33.0	natural	886306.0860	141.3	41.4	yellow				

886308 Parallel protection plugs CAPTOP®

EP 270, with cylindrical shaft

Material:  
pure and recyclable  
LLD-PE  
colour:  
natural

For internal and external threads, pipe ends, bolts, bores, fittings and flanges.  
Achieves a tight fit due to cylindrical shaft design.  
With non-slip cover rim for easy removal. Versatile for use as a plug or cap.



Order ID	d mm	H mm	D mm	Order ID	d mm	H mm	D mm	Order ID	d mm	H mm	D mm
886308.0010	3.0	4.5	6.5	886308.0470	25.5	10.5	29.0	886308.0930	57.0	10.0	61.0
886308.0020	3.5	4.6	7.0	886308.0480	26.0	10.5	30.5	886308.0940	58.0	10.5	67.7
886308.0030	4.0	5.0	7.5	886308.0490	26.5	10.5	30.0	886308.0950	59.0	11.0	65.5
886308.0040	4.5	5.0	8.0	886308.0500	27.0	9.1	31.0	886308.0960	60.0	11.1	63.4
886308.0050	5.0	5.8	9.0	886308.0510	27.5	10.0	31.0	886308.0970	61.0	11.0	67.5
886308.0060	5.5	6.0	9.0	886308.0520	28.0	10.0	32.5	886308.0980	62.0	11.0	67.0
886308.0070	6.0	6.0	9.5	886308.0530	28.5	10.0	32.0	886308.0990	63.0	9.5	66.0
886308.0080	6.5	6.8	9.6	886308.0540	29.0	9.5	32.0	886308.1000	64.0	10.0	67.5
886308.0090	7.0	6.0	10.0	886308.0550	29.5	10.5	33.0	886308.1010	65.0	10.4	69.0
886308.0100	7.5	6.2	10.2	886308.0560	30.0	9.5	32.8	886308.1020	66.0	10.3	71.9
886308.0110	8.0	6.6	11.0	886308.0570	30.5	10.0	34.0	886308.1030	67.0	10.0	73.0
886308.0120	8.5	7.2	11.5	886308.0580	31.0	10.5	36.0	886308.1040	68.0	10.7	75.0
886308.0130	9.0	7.5	11.5	886308.0590	31.5	10.5	35.0	886308.1050	69.0	10.5	75.0
886308.0140	9.5	7.3	12.2	886308.0600	32.0	10.4	37.0	886308.1060	70.0	11.0	74.0
886308.0150	10.0	8.2	12.8	886308.0610	32.6	10.5	38.0	886308.1070	71.0	10.9	74.6
886308.0160	10.5	8.5	13.5	886308.0620	33.0	10.5	38.0	886308.1080	71.5	16.0	75.0
886308.0170	11.0	8.5	13.8	886308.0630	33.5	10.5	37.5	886308.1090	72.0	12.0	79.0
886308.0180	11.0	8.5	13.8	886308.0640	34.0	10.5	38.5	886308.1100	73.0	9.8	76.5
886308.0190	11.5	8.5	14.5	886308.0650	34.5	10.5	38.0	886308.1110	74.0	10.5	77.5
886308.0200	12.0	8.4	14.9	886308.0660	35.0	10.5	40.0	886308.1120	75.0	9.5	79.0
886308.0210	12.5	8.4	15.5	886308.0670	35.5	10.5	39.0	886308.1130	76.0	10.5	80.0
886308.0220	13.0	9.5	16.5	886308.0680	36.0	10.6	41.0	886308.1140	77.0	9.6	80.0
886308.0230	13.5	9.0	16.5	886308.0690	36.5	10.5	40.0	886308.1150	78.0	10.5	82.0
886308.0240	14.0	9.2	17.0	886308.0700	37.0	10.4	42.0	886308.1160	79.0	9.6	82.2
886308.0250	14.5	9.5	17.5	886308.0710	37.5	10.5	41.5	886308.1170	80.0	9.5	84.0
886308.0260	15.0	9.5	17.8	886308.0720	38.0	10.5	43.0	886308.1180	81.0	9.5	85.0
886308.0270	15.5	9.5	18.8	886308.0730	38.5	10.5	42.0	886308.1190	82.0	9.5	85.5
886308.0280	16.0	10.0	19.5	886308.0740	39.0	10.5	44.0	886308.1200	83.0	9.5	86.5
886308.0290	16.5	10.2	19.5	886308.0750	39.5	10.7	43.3	886308.1210	84.0	10.4	90.1
886308.0300	17.0	10.5	20.5	886308.0760	40.0	10.5	43.8	886308.1220	85.0	9.5	88.5
886308.0310	17.5	10.5	20.7	886308.0770	41.0	10.0	45.2	886308.1230	86.0	9.5	89.2
886308.0320	18.0	10.5	21.5	886308.0780	42.0	10.0	47.0	886308.1240	87.0	9.5	90.5
886308.0330	18.5	10.0	22.5	886308.0790	43.0	12.5	48.0	886308.1250	88.0	9.5	91.5
886308.0340	19.0	10.0	22.0	886308.0800	44.0	10.5	49.0	886308.1260	89.0	9.5	92.5
886308.0350	19.5	10.5	23.0	886308.0810	45.0	10.5	50.5	886308.1270	90.0	9.9	93.5
886308.0360	20.0	10.5	23.5	886308.0820	46.0	10.4	50.5	886308.1280	92.0	9.5	95.5
886308.0370	20.5	10.5	24.5	886308.0830	47.0	10.5	51.5	886308.1290	94.0	9.5	98.0
886308.0380	21.0	11.0	24.5	886308.0840	48.0	10.5	52.5	886308.1300	96.0	9.6	99.5
886308.0390	21.5	11.0	25.5	886308.0850	49.0	10.6	54.0	886308.1310	184	16.0	194
886308.0400	22.0	11.0	25.5	886308.0860	50.0	10.0	53.3	886308.1320	208	15.0	220
886308.0410	22.5	10.5	26.0	886308.0870	51.0	10.6	54.8	886308.1330	233	16.3	245
886308.0420	23.0	11.0	27.0	886308.0880	52.0	10.7	57.2	886308.1340	261	16.0	273
886308.0430	23.5	10.5	27.0	886308.0890	53.0	11.0	58.2	886308.1350	285	18.0	298
886308.0440	24.0	11.0	28.0	886308.0900	54.0	11.0	61.0	886308.1360	311	18.0	324
886308.0450	24.5	10.5	28.0	886308.0910	55.0	10.6	61.8				
886308.0460	25.0	11.6	29.9	886308.0920	56.0	11.5	62.5				



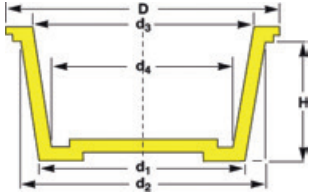
886312 Universal conical protective caps CAPTOP®

EP 280

Material:  
pure and recyclable  
LLD-PE

Colour:  
yellow, red

For threads, bores, pipes, flanges. The conical shaft is ideal for bridging tolerances.  
tolerances. Can be used universally as a plug or cap.



Order ID	d <sub>1</sub> mm	H mm	d <sub>2</sub> mm	d <sub>3</sub> mm	d <sub>4</sub> mm	D mm	Order ID	d <sub>1</sub> mm	H mm	d <sub>2</sub> mm	d <sub>3</sub> mm	d <sub>4</sub> mm	D mm
886312.0010	4.4	10	6.15	4.6	2.8	10	886312.0230	24.5	20.1	27.8	26.2	22.9	32
886312.0020	6.0	10	7.75	6.15	4.4	11	886312.0240	25.5	21	29.2	27.7	23.7	33
886312.0030	7.6	10	9.35	7.75	6.0	13	886312.0250	27.8	20.1	31.1	29.5	26.2	35
886312.0040	8.4	10	10.15	8.55	6.8	14	886312.0260	29.8	17.1	32.6	31.1	28.3	37
886312.0050	9.2	10	10.95	9.25	7.5	14	886312.0270	31.4	22	35.1	33.4	29.7	38
886312.0060	9.9	10	11.35	10.05	8.3	15	886312.0280	33.3	23.4	37.1	35.5	31.7	41
886312.0070	10.6	10	12.35	10.75	9.0	16	886312.0290	36.7	23.4	40.5	39	35.2	45
886312.0080	10.9	11	13.05	11.55	9.5	17	886312.0300	38.4	13	40.7	39.2	36.9	45
886312.0090	12	13	14.1	12.5	10.4	18	886312.0310	38.2	23	43	41.4	36.6	47.5
886312.0100	12.5	12	14.2	13.3	11.2	18	886312.0320	39.6	20.1	42.9	41.3	38	48
886312.0110	13.5	13	15.6	14	11.9	19	886312.0330	41.4	19	44.7	43	39.7	48.4
886312.0120	14	12.9	16.1	14.5	12.4	19	886312.0340	44.4	20.1	47.7	46.1	42.8	51
886312.0130	15	13	17	15.5	13.2	21	886312.0350	45.2	27	49.6	48	43.6	54
886312.0140	16.1	13	18.4	16.9	14.5	22	886312.0360	46.6	26	51	48.7	45.2	55
886312.0150	17.3	15.3	19.4	17.6	15.5	22	886312.0370	52.5	26	56.9	55.2	50.8	62
886312.0160	17.5	16	20.1	18.5	15.9	24	886312.0380	54	25	59.3	57.8	52.5	65
886312.0170	18.4	16	21	19.4	16.8	25	886312.0390	54.2	26	58.6	57	52.6	65
886312.0180	19	15.8	21.6	20	17.4	25	886312.0400	58.4	26	62.8	61.1	56.7	67
886312.0190	20.4	17.2	23.2	21.6	18.8	27	886312.0410	60.7	30	67.1	64.3	57.5	75
886312.0200	20.7	17	23.5	21.9	19.1	28	886312.0420	67.1	19	70.4	68.7	65.4	75
886312.0210	22	17	26.3	23.2	20.4	29	886312.0430	72.4	19	75.7	74.1	70.8	83
886312.0220	23.2	19.3	26.35	24.35	21.2	30	886312.0440	84.5	19	87.8	85.7	82.4	92

886319 Push-in full-face flange protectors CAPTOP®

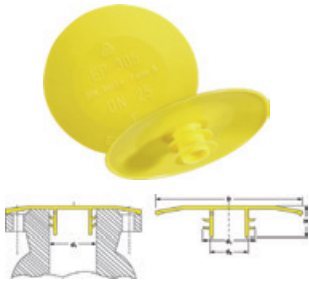
EP 305

Material:  
pure and recyclable  
LLD-PE

colour:  
yellow

The most universal flange cover on the market. Extremely fast and precise assembly. To be pressed into the flange bore.  
Closes the flange opening and the large protective collar covers the sealing the sealing strip and the screw holes.  
The unique form-fit design of the collar ensures a tight fit on the flange sheet.  
tight fit on the flange sheet.

Guaranteed to fit in any dimension for flanges to:  
DIN 2627-2638, ISO, BS 1560, BS 4504, ANSI B 16.5.



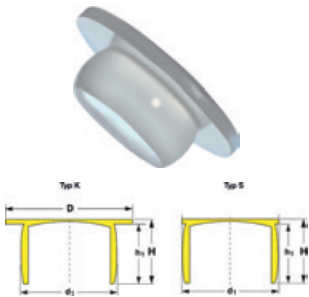
Order ID	D mm	H mm	d <sub>1</sub> mm	d <sub>2</sub> mm
886319.0010	86.0	15.0	13.7	7.0
886319.0020	90.0	15.0	19.0	9.0
886319.0030	101.0	20.0	24.0	14.40
886319.0040	110.0	20.0	30.0	18.00
886319.0050	136.0	20.0	39.0	22.27
886319.0060	146.0	20.0	45.0	30.00
886319.0070	160.0	20.0	56.0	40.10
886319.0080	180.0	20.0	73.0	53.40
886319.0090	196.0	25.0	85.0	67.60
886319.0100	216.0	25.0	109.0	88.60
886319.0110	247.0	25.0	134.0	110.2
886319.0120	283.0	35.0	161.0	135.69
886319.0130	337.0	41.3	211.0	188.6
886319.0140	390.0	41.0	262.0	243.8
886319.0150	450.0	48.0	318.0	280.9
886319.0160	586.0	62.0	410.0	351.00



886324 886324 Plugs with flat head and parallel shank CAPTOP® EP 340

Material:  
pure and recyclable  
LLD-PE  
colour:  
natural

For internal threads and bores. Robust design. Achieves a tight fit due to the spherical shank. The „S“ version with collar reduced to the shaft diameter the shank diameter, can be completely countersunk in the internal countersinkable.



Order ID	D mm	H mm	d <sub>1</sub> mm	h <sub>1</sub> mm	Order ID	D mm	H mm	d <sub>1</sub> mm	h <sub>1</sub> mm	Order ID	D mm	H mm	d <sub>1</sub> mm	h <sub>1</sub> mm
886324.0010	14.0	6.8	7.2	4.8	886324.0260	35.5	14.5	33.5	11.0	886324.0510	17.1	10.5	17.1	8.0
886324.0020	14.0	7.1	8.4	5.0	886324.0270	40.5	15.6	34.8	12.0	886324.0520	18.4	10.5	18.4	8.4
886324.0030	14.0	6.5	9.0	4.1	886324.0280	42.0	18.0	36.5	14.2	886324.0530	19.6	10.8	19.6	8.0
886324.0040	14.0	7.0	10.4	4.6	886324.0290	42.0	12.5	38.4	9.6	886324.0540	20.7	10.2	20.7	7.5
886324.0050	14.0	7.0	10.7	5.0	886324.0300	42.0	18.0	39.0	15.0	886324.0550	22.4	11.5	22.4	8.5
886324.0060	15.7	8.5	11.7	6.3	886324.0310	42.0	17.7	40.0	14.6	886324.0560	24.6	11.2	24.6	8.0
886324.0070	16.0	8.5	12.3	6.5	886324.0320	54.3	21.0	46.0	16.7	886324.0570	29.0	15.0	29.0	12.0
886324.0080	20.0	10.0	13.7	7.0	886324.0330	54.2	15.7	48.0	11.1	886324.0580	31.8	12.5	31.8	9.1
886324.0090	20.0	7.5	14.3	5.5	886324.0340	54.2	21.0	51.5	17.0	886324.0590	33.5	14.5	33.5	11.0
886324.0100	20.0	10.0	15.6	7.7	886324.0350	62.3	20.5	55.0	17.4	886324.0600	36.5	18.0	36.5	14.2
886324.0110	22.0	7.5	16.5	5.5	886324.0360	63.0	20.5	58.0	17.7	886324.0610	38.4	12.5	38.4	9.6
886324.0120	22.0	10.5	17.1	8.0	886324.0370	78.0	21.5	71.0	18.0	886324.0620	40.0	17.7	40.0	14.6
886324.0130	24.6	10.5	18.4	8.3	886324.0380	70.0	20.5	65.7	17.0	886324.0630	46.0	21.0	46.0	16.7
886324.0140	25.0	10.8	19.6	8.0	886324.0390	78.0	21.0	78.0	18.0	886324.0640	48.0	15.7	48.0	11.1
886324.0150	21.2	10.0	21.2	7.5	886324.0400	91.0	20.0	86.0	17.5	886324.0650	51.5	21.0	51.5	17.0
886324.0160	25.0	10.0	21.7	7.5	886324.0410	7.2	6.8	7.2	4.8	886324.0660	55.0	20.5	55.0	17.4
886324.0170	24.5	10.2	20.7	7.5	886324.0420	8.4	7.1	8.4	5.0	886324.0670	58.0	20.5	58.0	17.7
886324.0180	27.5	11.5	22.4	8.5	886324.0430	9.0	6.5	9.0	4.1	886324.0680	65.7	20.5	65.7	17.0
886324.0190	28.0	11.5	23.6	8.5	886324.0440	10.4	7.0	10.4	4.6	886324.0690	25.0	10.0	21.2	7.5
886324.0200	28.0	11.2	24.6	8.0	886324.0450	11.7	8.5	11.7	6.3	886324.0700	21.7	10.0	21.7	7.5
886324.0210	28.0	10.0	25.5	7.0	886324.0460	12.3	8.5	12.3	6.5	886324.0710	23.6	11.5	23.6	8.5
886324.0220	28.0	12.0	26.5	9.0	886324.0470	13.7	10.0	13.7	7.0	886324.0720	25.5	10.0	25.5	7.0
886324.0230	36.0	15.0	29.0	12.0	886324.0480	14.3	7.5	14.3	5.5	886324.0730	26.5	12.0	26.5	9.0
886324.0240	36.0	14.0	31.0	11.0	886324.0490	15.6	10.0	15.6	7.7	886324.0740	39.0	18.0	39.0	15.0
886324.0250	36.0	12.5	31.8	9.1	886324.0500	16.5	7.5	16.5	5.5					

886345 Round inserts - Ribbed CAPTOP®

EP 620

Material:  
pure and recyclable  
LLD-PE  
Colour:  
black

Ideal plug for sealing profiled pipes.  
For increased stress. Equipped with reinforced head and lamellar construction in the area of the shaft. Convinces good press fit with simultaneous bridging of dimensional tolerances of the of the profile tubes.



Order ID	D mm	H mm	B mm	Inside Ø mm	T mm	Wall Thickness mm	A mm
886345.0010	10.0	10.1	9.2	6.0 - 8.0	3.5	1.0 - 2.0	2.8
886345.0020	12.0	11.5	10.9	8.0 - 10.0	3.3	1.0 - 2.0	4.7
886345.0030	13.0	11.5	12.2	9.0 - 11.0	3.7	1.0 - 2.0	5.6
886345.0040	14.0	11.5	13.0	10.0 - 12.0	5.0	1.0 - 2.0	6.2
886345.0050	15.0	11.5	14.3	11 - 13.4	4.4	0.8 - 2.0	7.2
886345.0060	15.7	11.5	14.5	11.7 - 14.1	4.3	0.8 - 2.0	9.7
886345.0070	18.0	11.5	17.1	14 - 16.4	4.4	0.8 - 2.0	12.5
886345.0080	20.0	11.5	19.0	16.0 - 18.0	5.0	1.0 - 2.0	13.0
886345.0090	22.0	11.5	21.2	18.0 - 20.0	4.8	1.0 - 2.0	15.0
886345.0100	22.0	11.5	19.3	16.0 - 17.0	5.0	2.5 - 3.0	12.0
886345.0110	23.0	11.5	21.5	19.0 - 21.0	5.0	1.0 - 2.0	17.0
886345.0120	25.0	11.5	24.0	21.0 - 23.0	5.0	1.0 - 2.0	17.6
886345.0130	25.0	11.5	21.9	18.0 - 20.0	5.0	2.5 - 3.5	17.0
886345.0140	26.0	11.5	24.5	22.0 - 24.0	5.0	1.0 - 2.0	18.0
886345.0150	27.0	11.5	26.9	23.0 - 25.0	4.8	1.0 - 2.0	20.0
886345.0160	28.0	11.2	27.0	24.0 - 26.0	5.0	1.0 - 2.0	20.0
886345.0170	30.0	11.5	28.7	26.0 - 28.0	4.8	1.0 - 2.0	23.0
886345.0180	32.0	11.5	30.9	28.0 - 30.0	4.8	1.0 - 2.0	25.0
886345.0190	34.0	11.5	32.5	28.0 - 32.0	4.8	1.0 - 3.0	26.8
886345.0200	34.0	11.8	28.7	26.0 - 27.0	4.8	3.5 - 4.0	22.0
886345.0210	35.0	11.5	33.8	30.0 - 33.0	5.0	1.0 - 2.5	28.0
886345.0220	36.0	11.5	34.9	32.0 - 34.0	4.8	1.0 - 2.0	28.1
886345.0230	38.0	11.8	36.0	34.0 - 36.0	4.8	1.0 - 2.0	31.0
886345.0240	40.0	11.8	39.3	36.0 - 38.0	4.8	1.0 - 2.0	32.9
886345.0250	40.0	11.5	38.6	34.0 - 38.0	5.0	1.0 - 3.0	31.4
886345.0260	42.0	11.5	41.2	38.0 - 40.0	4.9	1.0 - 2.0	35.5
886345.0270	42.0	11.5	39.3	35.0 - 37.0	5.0	2.5 - 3.5	33.0
886345.0280	45.0	11.5	43.2	41.0 - 39.0	5.0	1.0 - 2.0	37.3
886345.0290	46.0	11.5	43.7	42.0 - 44.0	5.0	1.0 - 2.0	36.0
886345.0300	48.0	14.5	46.0	43.0 - 46.0	5.0	1.0 - 2.5	40.0
886345.0310	48.0	14.1	44.2	40.0 - 41.0	5.0	3.0 - 4.0	39.0
886345.0320	50.0	11.5	49.3	46.0 - 48.0	4.7	1.0 - 2.0	43.0
886345.0330	55.0	13.5	53.7	51.0 - 53.0	5.0	1.0 - 2.0	47.0
886345.0340	60.0	17.0	57.8	54.0 - 57.0	4.0	1.5 - 3.0	48.0
886345.0350	60.0	21.4	55.6	52.0 - 53.0	5.2	3.0 - 4.0	51.0
886345.0360	70.0	21.0	67.0	61.0 - 66.0	5.0	2.0 - 4.5	59.0
886345.0370	76.0	21.5	73.8	71.0 - 73.0	5.0	1.5 - 2.5	69.0
886345.0380	76.0	21.5	71.6	68.0 - 69.0	5.0	3.0 - 4.0	66.0
886345.0390	90.0	20.0	86.5	80.0 - 85.0	5.0	2.5 - 5.0	79.0
886345.0400	102.0	20.0	98.7	94.0 - 98.0	5.0	2.0 - 4.0	92.0

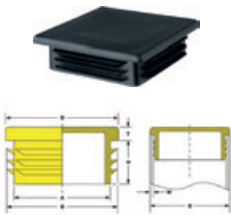
886346 Square inserts - Ribbed CAPTOP®

EP 700

Material:  
pure and recyclable  
LLD-PE

Colour:  
black

Ideal plug for sealing profile pipes. For increased stress. Equipped with reinforced head and pronounced lamellar construction in the area of the shaft. Convinces through good press fit with simultaneous bridging of dimensional tolerances of the profile tubes.



Order ID	D mm	H mm	Wall Thickness mm	A mm	B mm	T mm
886346.0010	10.0 x 10.0	9.8	1.0 - 2.0	6.0	8.6	4.0
886346.0020		11.6	1.0 - 2.0	6.8	11.4	4.0
886346.0030		11.5	1.0 - 2.0	7.0	11.5	5.0
886346.0040		11.3	1.0 - 2.0	11.0	14.5	5.0
886346.0050		11.4	1.0 - 2.0	11.0	15.5	5.0
886346.0060		11.2	1.0 - 2.0	13.3	17.5	5.0
886346.0070		11.5	1.0 - 2.0	13.2	19.3	5.0
886346.0080		13.8	1.0 - 2.0	17.6	21.0	5.0
886346.0090		11.9	1.0 - 2.0	19.7	24.1	5.0
886346.0100		13.6	3.0	17.0	21.0	5.0
886346.0110		14.2	1.0 - 2.0	22.8	27.0	5.0
886346.0120		11.5	1.0 - 2.0	24.0	28.9	4.8
886346.0130		11.5	2.5 - 4.5	19.7	25.4	4.8
886346.0140		11.5	2.0 - 3.0	19.7	25.2	5.0
886346.0150		11.6	2.0 - 2.5	24.0	31.0	5.0
886346.0160		14.5	1.0 - 2.0	28.0	34.0	5.0
886346.0170		14.5	1.0 - 2.5	28.0	34.0	5.0
886346.0180		14.9	3.0	22.8	30.1	5.0
886346.0190		14.3	1.0 - 2.0	33.5	38.0	4.8
886346.0200		14.6	3.0	31.6	35.3	5.3
886346.0210		15.0	4.0	28.0	35.0	5.0
886346.0220		14.8	5.0	28.9	33.8	5.0
886346.0230		14.6	1.0 - 2.0	38.0	44.4	4.9
886346.0240		14.5	1.0 - 2.0	43.4	49.5	4.8
886346.0250		25.0	2.6 - 4.0	36.6	45.1	5.7
886346.0260		14.6	3.0	42.6	46.0	5.2
886346.0270		14.5	5.0	38.2	44.8	4.8
886346.0280		19.3	1.0 - 3.0	46.3	58.0	4.8
886346.0290		19.5	3.0 - 5.0	47.0	54.7	4.8
886346.0300		18.5	2.0 - 4.0	61.0	67.5	5.0
886346.0310		17.0	3.0 - 4.0	71.0	75.5	5.0
886346.0320		17.5	2.0 - 5.0	78.0	88.9	5.3
886346.0330		17.7	3.0	78.3	87.0	5.3
886346.0340		17.5	5.0	78.3	82.5	5.3
886346.0350		23.3	3.0 - 6.0	84.5	96.4	6.1
886346.0360		25.3	3.0 - 5.0	109.5	117.2	5.0

886347 6-Bolt and nut protection caps CAPTOP®

EP 800

Passend für Sechskantmuttern  
DIN 439 (DIN ISO 4035, 4036, 8675)  
DIN 555 (DIN ISO 4034)  
DIN 934 (DIN ISO 4032, 8673, 8674)  
DIN 936 (DIN ISO 4035, 8675)

Material:  
pure and recyclable

LLD-PE  
Colour:  
black

In all branches of industry, hexagonal protection caps provide safe protection for bolts and nuts. Good handling due to easy application and removal. They are robust, fit snugly and offer optimum corrosion protection. optimum corrosion protection. The round outer contour prevents the unintentional application of a spanner. accidental application of an open-end spanner.



Order ID	Thread	h3	Wrench size	h2	h1
		mm	mm	mm	mm
886347.0010	M4	5.9	7.0	9.8	8.2
886347.0020	M5	6.3	8.0	10.5	9.3
886347.0030	M6	6.5	10.0	12.5	11.0
886347.0040	M7	6.5	11.0	13.0	11.6
886347.0050	M8	7.0	13.0	15.0	14.0
886347.0060	M10	9.0	17.0	19.5	17.5
886347.0070	M12	10.0	19.0	20.3	18.4
886347.0080	M14	12.0	22.0	23.7	22.0
886347.0090	M16	12.0	24.0	26.0	23.0
886347.0100	M18	17.0	27.0	30.6	29.0
886347.0110	M20	16.7	30.0	32.6	30.0
886347.0120	M22	19.0	32.0	36.2	33.6
886347.0130	M24	20.0	36.0	39.2	35.5
886347.0140	M27	23.0	41.0	47.5	44.8
886347.0150	M30	24.0	46.0	50.0	49.0
886347.0160	M33	26.2	50.0	55.5	53.0
886347.0170	M36	28.5	55.0	59.5	57.0
886347.0180	M39	32.3	60.0	61.6	60.0
886347.0190	M42	35.0	65.0	65.5	63.0
886347.0200	M45	33.0	70.0	72.0	70.0
886347.0210	M48	41.0	75.0	79.0	77.5
886347.0220	M52	43.5	80.0	84.6	82.6
886347.0230	M56	48.0	85.0	91.6	88.6
886347.0240	M64	55.0	95.0	105.5	102.0

942000 Digital caliper gauge FUTURO connected with Bluetooth®



Digital caliper gauge **with Bluetooth interface**. Extra-large LCD and customisable button with selectable functions. Resistant to water, dust and oil with **protection class IP67**. Automatic wake-up when the caliper gauge is moved, sleep mode after 20 minutes, last position saved in sleep mode. Precision-lapped measuring surfaces, **depth gauge rectangular 4 x 1.4 mm**.

FUTURO connected

Bluetooth data transmission for all needs:

- Data transfer at the touch of a button: measurement results are transferred to the active field on computer, regardless of whether it is in an Excel file, Word file or other software. The value is entered in the active field as if entered from the keyboard.
- Significant time savings: Automatic transmission of the measured value eliminates the need for manual input and eliminates errors.
- Flexible handling: Bluetooth wireless communication means that no cables hinder your movements.
- Easy connection: no software required for connection. A device with a Bluetooth connection is all you need.
- Mobile app for iOS and Android available from Apple App Store and Google Play Store

Appropriate batteries:

1 pieces 155050.1400 - CR2032 / 3.0 V (included in scope of delivery).

Order ID		942000.0100	942000.0105	942000.0110
Range	mm	150	200	300
Resolution	mm	0.01	0.01	0.01
Reading		Switch between mm/inch	Switch between mm/inch	Switch between mm/inch
Accuracy	µm	30	30	30
Measuring jaw length	mm	40	50	65
Depth gauge		Rectangular 4 x 1.4 mm	Rectangular 4 x 1.4 mm	Rectangular 4 x 1.4 mm
Digit height	mm	11.5	11.5	11.5
Data output		Bluetooth®	Bluetooth®	Bluetooth®
Protection class		IP 67	IP 67	IP 67
Material		Stainless steel, INOX	Stainless steel, INOX	Stainless steel, INOX
Package		Plastic case	Plastic case	Plastic case

FUTURO connected

Bluetooth data transmission for all needs:

- Data transfer at the touch of a button: the measurement result is transferred to the active field on the computer, regardless of whether it is an Excel, Word file or other software. The value is entered into the active field as if it were a keyboard entry.
- Significant time saving: The automatic transmission of the measured value eliminates the need for manual input and eliminates the possibility of errors.
- Flexible handling: Thanks to wireless Bluetooth communication, no cables interfere with your movements.
- Easy connection: no software required for connection, just a device with a Bluetooth connection.
- Mobile App for IOS and Android available on Apple App Store and Google Play Store



150 mm



FUTURO connected App

942010 Digital caliper gauge FUTURO connected with Bluetooth®



Digital caliper gauge **with Bluetooth interface**. Extra-large LCD and customisable button with selectable functions. Resistant to water, dust and oil with **protection class IP67**. Automatic wake-up when the caliper gauge is moved, sleep mode after 20 minutes, last position saved in sleep mode. Precision-lapped measuring surfaces, **depth gauge round Ø 1.5 mm**.

FUTURO connected

Bluetooth data transmission for all needs:

- Data transfer at the touch of a button: measurement results are transferred to the active field on computer, regardless of whether it is in an Excel file, Word file or other software. The value is entered in the active field as if entered from the keyboard.
- Significant time savings: Automatic transmission of the measured value eliminates the need for manual input and eliminates errors.
- Flexible handling: Bluetooth wireless communication means that no cables hinder your movements.
- Easy connection: no software required. A device with a Bluetooth connection is all you need.
- Mobile app for iOS and Android available from Apple App Store and Google Play Store

Appropriate batteries:

1 pieces 155050.1400 - CR2032 / 3.0 V (included in scope of delivery).

Order ID	942010.0100	
Range	mm	150
Resolution	mm	0.01
Reading	Switch between mm/inch	
Accuracy	µm	30
Measuring jaw length	mm	40
Depth gauge	Round, diameter 1.5 mm	
Digit height	mm	11.5
Data output	Bluetooth®	
Protection class	IP 67	
Material	Stainless steel, INOX	
Package	Plastic case	



FUTURO connected App

942100 Digital depth gauge FUTURO connected Bluetooth®



Digital depth gauge **with Bluetooth interface**. Extra-large LCD and customisable button with selectable functions. Resistant to water, dust and oil with **protection class IP67**. Automatic wake-up when the caliper gauge is moved, sleep mode after 20 minutes, last position saved in sleep mode. Precision-lapped measuring surfaces, **depth gauge rectangular**.

FUTURO connected

Bluetooth data transmission for all needs:

- Data transfer at the touch of a button: measurement results are transferred to the active field on computer, regardless of whether it is in an Excel file, Word file or other software. The value is entered in the active field as if entered from the keyboard.
- Significant time savings: Automatic transmission of the measured value eliminates the need for manual input and eliminates errors.
- Flexible handling: Bluetooth wireless communication means that no cables hinder your movements.
- Easy connection: no software required. A device with a Bluetooth connection is all you need.
- Mobile app for iOS and Android available from Apple App Store and Google Play Store

Appropriate batteries:

1 pieces 155050.1400 - CR2032 / 3.0 V (included in scope of delivery).

Order ID	942100.0100	942100.0105	942100.0110
Range	mm 150	200	300
Resolution	mm 0.01	0.01	0.01
Reading	Switch between mm/inch	Switch between mm/inch	Switch between mm/inch
Accuracy	µm 30	30	30
Depth gauge	Rectangular	Rectangular	Rectangular
Length of base	mm 100	100	100
Rail cross section	mm 16 x 4	14 x 6	14 x 6
Digit height	mm 11.5	11.5	11.5
Data output	Bluetooth®	Bluetooth®	Bluetooth®
Protection class	IP 67	IP 67	IP 67
Material	Stainless steel/inox	Stainless steel/inox	Stainless steel/inox
Package	Plastic case	Plastic case	Plastic case



150 mm



FUTURO connected App