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6.1 Automatic Cable Tying System

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Automatic bundling up to Ø 20 mm

Autotool 2000 CPK

The reliability, ergonomics, simple handling and flexibility makes the Autotool 2000 CPK ideal for a variety of high volume applications, e.g. in cable assemblies for automotive, brown and white goods industry, electronics, TV and domestic appliances, sealing of bags and the bundling of parts. Overall the Autotool 2000 CPK gives full, flexible and cost effective utilization of labour and maximises efficiency.

With the Bench Mount Kit CPK or the Overhead Suspension CPK the Autotool 2000 CPK can be used stationary or mobile, depending on the customer's application.

Another option is to integrate the AT2000 CPK into a fully automated production line by using the Power Pack with integrated Control Box, which is the interface between the AT2000 CPK and your production line.

Features and Benefits

- Evolutionary model combining long-term customer experience and requirements
- Electronically operated automatic bundling system
- Speeds up the bundling process
- Consistency and quality in the process of threading, tensioning and cutting
- Bundling with flush cut off / optional with excess tail
- Several languages available
- Service Software - Extensive data analysis with included PC software possible, Production Data Acquisition (PDA)
- Tensioning drive completely controlled and monitored electronically
- High reproducibility of the bundling results
- Adjustable cycle time settings between 0.8 - 1.4 sec.
- Removable handle for full automation
- Troubleshooting via menu navigation



One Step to the Web!



Autotool 2000 CPK.



AT2000 CPK Service Software.

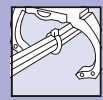


Power Pack for Autotool 2000 CPK.

TYPE	Article-No.
Autotool 2000 CPK	106-00000

Subject to technical changes.

Power Supply	Electronically, with Power Pack CPK
Cycle Time	adjustable 0.8 sec to 1.4 sec.
Weight	1.8 kg
Tension Force	adjustable



Automatic bundling up to Ø 20 mm

Accessories for Autotool 2000 CPK

Features and Benefits

- Supports the main features of the Autotool 2000 CPK
- Power Pack - Input 100-240 V a.c. 50/60 Hz; Output 25,2 V d.c., max. 150 W
- Bench Mount Kit CPK for stationary usage
- Overhead Suspension CPK for flexible usage
- Power Pack CPK with Control Box for full automation usage
- Stand-off HH20 - used as a spacer for optimal bundling support

TYPE	Article-No.
Bench Mount Kit CPK	106-00040
Overhead Suspension CPK	106-00050
Power Pack CPK	106-00100
Power Pack CPK with Control Box	106-00110
HH20	120-00080

Subject to technical changes.



Bench Mount Kit CPK included Foot Pedal, Autotool 2000 CPK, Power Pack CPK and T18RA3500.



Application with the Bench Mount Kit CPK.



Overhead Suspension CPK, Autotool 2000 CPK, Power Pack CPK and T18RA3500.



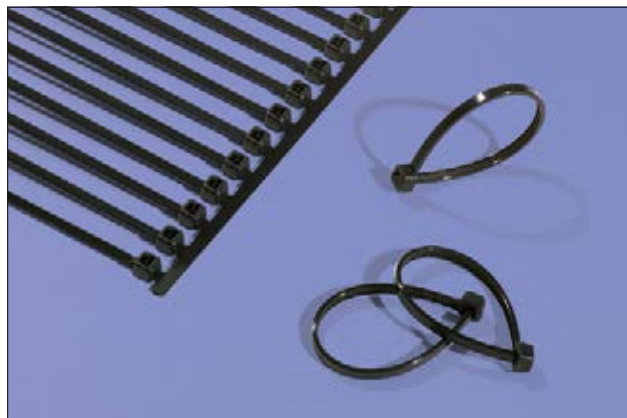
Automatic bundling up to Ø 20 mm

Cable ties for Autotool 2000 Series

For bundling and securing cables, pipes and hoses, especially in applications that require high volumes of cable ties, e.g. in cable assembly, automotive, industrial equipment and the packaging sector.

Features and Benefits

- Made from 100% high quality plastic, can be easily recycled
- Provides a secure hold around bundles
- Available in natural and black
- Other colours available on request
- Bandoleers of 50 cable ties or reels of 3,500 available



Cable ties for Autotool 2000 Series.

MATERIAL	Polyamide 6.6, heat stabilised (PA66HS)	Polyamide 6.6, heat and UV-resistant (PA66HSW)	Polyamide 4.6 (PA46)
Operating Temperature	-40 °C to +105 °C, (+145 °C, 500 h)		-40 °C to +150 °C, (+195 °C, 500 h)
Flammability	UL94 V2		UL94 V2, Limited Fire Hazard, Low generation of toxic gases and corrosive acid, Low smoke generation

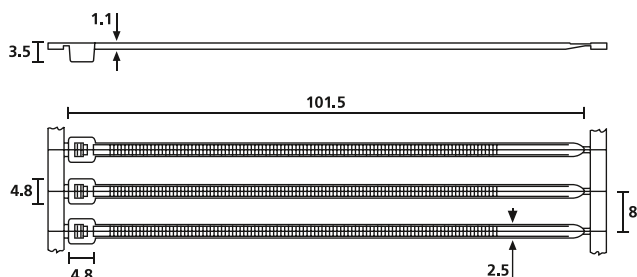
HF ✓

RoHS ✓

HF ✓

LFH ✓

RoHS ✓



Bandoleer T18RA

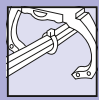
TYPE	Bundle Ø max.	N	Colour	Material	Pack Cont.	Article-No.
T18RA50	20.0	80	Black (BK)	PA66HSW	2,000 pcs.	120-40020
T18RA3500	20.0	80	Black (BK)	PA66HSW	3,500 pcs.	120-50010
	20.0	80	Natural (NA)	PA46	3,500 pcs.	120-46009
T18RA50	20.0	80	Natural (NA)	PA66HS	2,000 pcs.	120-40019
T18RA3500	20.0	80	Natural (NA)	PA66HS	3,500 pcs.	120-50009

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. More colours on request. Please contact us!

Halogen-free according to the interdictions of the GADSL list and compulsory registration of the SVHC list.



= Minimum Loop Tensile Strength for Cable Ties (Newton)



Automatic bundling

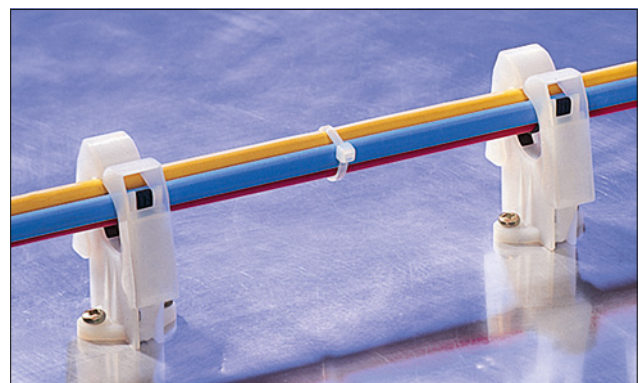
Bundling Clips for Automatic Cable Tying Systems

Features and Benefits

- Optimized for Automatic Cable Tying Systems
- Easy to fix



Bundling Clips ATSBCFT6LG.



Harness board accessory HH20.

TYPE	Drawing	Panel Thickness	Hole Ø (FH)	Colour	Material	Article-No.
ATSBCEC35		1.5 - 4.0	-	Black (BK)	PA66HIRHS	102-68355
ATSBCSFT6.5		2.3 - 3.3	6.3 - 6.7	Black (BK)	PA66HIRHS	102-69066
ATSBCSFT6.5-MD		2.0 - 3.0	6.3 - 6.7	Black (BK)	PA66HIRHS	102-69065
ATSBCEC36		1.5 - 4.0	-	Black (BK)	PA66HIRHS	102-68365
ATSBCEC37		1.5 - 4.0	-	Black (BK)	PA66HIRHS	102-68375
ATSBCT6LG		0.6 - 5.1	6.3 - 7.0	Black (BK)	PA66HIRHS	102-67065
ATSBCEC38		1.5 - 4.0	-	Black (BK)	PA66	102-68385
ATSBCK2KSFT6,5		1.7 - 2.3	6.3 - 6.7	Black (BK)	PA66HIRHS	102-69068
ATSBCKSFT6,5		0.7 - 1.3	6.3 - 6.7	Black (BK)	PA66HIRHS	102-69067
ATSBKOWSFT6,5		2.3 - 3.3	6.3 - 6.7	Grey (GY)	PA46	102-69070
ATSBKSFT6,5PT2,3-3,3		2.3 - 3.3	6.3 - 6.7	Grey (GY)	PA46	102-69069

All dimensions in mm. Subject to technical changes.



Waste free bindings up to Ø 80 mm

Autotool System 3080

By assembling the ATS3080 into different devices, the tool can be customised for various customer applications. For example, with the horizontal bench mount kit, plastic bags can be closed in seconds. Also, because of the unique closing mechanism, the plastic tie closing the bag can serve as a tamper evident seal and is compatible material for recycling.

HellermannTyton developed an innovative solution for harnesses in the Automotive industry. With the ATS3080, it is now possible to fasten fixings, also known as foot parts, at the same time as the automatic binding. This simplifies the final assembly of harnesses, because the pre-assembled harness can be fixed directly to the metal edge or into a hole! This means that you can now produce a complex harness completely automatically.

Features and Benefits

- Electrical bundling system from HellermannTyton
- Waste free fastenings every time with a completely flush cut
- No lost time for emptying or cleaning waste boxes
- Bundling diameter up to 80 mm
- Processes outside serrated Nylon 6.6 strap and closures on "endless reels"
- Outstanding innovation: double play between tool and material
- Usable with overhead dispenser or bench mount system
- Can be integrated into fully automated production line
- Flexible tool especially for automotive, packaging and white and brown goods industries
- High-capacity tool
- Short cycle time (0.8 - 1.3 sec. - depending on bundle diameter)
- Jaws available in 3 different diameters: 30, 50, 80 mm
- Material available in reels of 500 m straps and 5000 pcs closures

TYPE	Article-No.
Autotool System 3080	102-00000

Subject to technical changes.



One Step to the Web!



Autotool System 3080.



Autotool System 3080 with three Jaw sizes - to optimise the cycle time for the different bundling diameters.



Switching Power Pack for ATS3080.

Power Supply	Electrical, with Switching Power Pack
Cycle Time	approx. 1.3 sec. (50 mm jaw)
Weight	1.9 kg
Tension Force	Continuously adjustable



Waste free bindings up to Ø 80 mm

Accessories for Autotool System 3080

Features and Benefits

- For stationary or mobile use of the ATS3080 in bench mount kit or overhead dispenser
- Integrates ATS3080 into a fully automated production line
- Switching Power Pack - Input: 230/150 VAC, 50/60 Hz; Output: 48 VDC, max. 50 W
- Bench Mount Kit - tool and tie reel stand including foot pedal
- Overhead dispenser and tie reel stand including balancer



Optional: Bench Mount Kit with plate.



Packaging application with the Bench Mount Kit Horizontal.



Bench Mount Kit with ATS3080, Switching Power Pack, Foot Pedal and consumables.



Overhead Suspension with ATS3080 and consumables.

TYPE	Article-No.
Bench Mount Kit Automatic	102-00042
Bench Mount Kit Horizontal	102-00041
Bench Mount Kit Movable	102-00040
Overhead Suspension	102-00050
Switching Power Pack	102-00100

Subject to technical changes.



Waste free bindings up to Ø 80 mm

Cable ties for Autotool System 3080

For bundling and securing cables, hoses and pipes or closing plastic bags. Ideal for applications where large volumes of cable ties are required, e.g. in cable assembly, automotive, industrial equipment and packaging sectors.

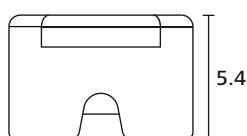
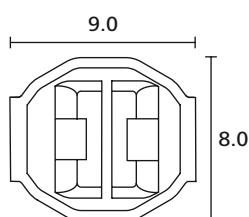
Features and Benefits

- Innovative strap and closures
- Two-piece consumable parts
- Waste-free and optimised material utilisation guaranteed
- No time lost through emptying and cleaning waste boxes
- Mechanically detected bundle diameter
- Flush cut-off of fastenings
- Outside serrated strap prevents damage to wire insulation
- Available in reels of 500 m strap and 5000 pcs closures

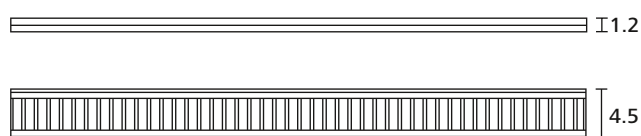


Closures and strap for ATS3080.


MATERIAL	Polyamide 6.6, high impact modified, heat and UV stabilised (PA66HIRHSUV)	Polyamide 6.6, heat and UV stabilised (PA66HSUV)
Operating Temperature	-40 °C to +95 °C, (+105 °C, 5000 h)	-40 °C to +105 °C, (+145 °C, 500 h)
Flammability	UL94 HB	UL94 V2



Closure ATS3080



Strap ATS3080

TYPE	Bundle Ø max.		Colour	Material	Pack Cont.	Article-No.
Closures Black ATS3080	80.0	225	Black (BK)	PA66HSUV	5,000 pcs.	102-66210
Strap Black ATS3080	80.0	225	Black (BK)	PA66HIRHSUV	500 m	102-66110
Closures Natural ATS3080	80.0	225	Natural (NA)	PA66HSUV	5,000 pcs.	102-66209
Strap Natural ATS3080	80.0	225	Natural (NA)	PA66HIRHSUV	500 m	102-66109

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

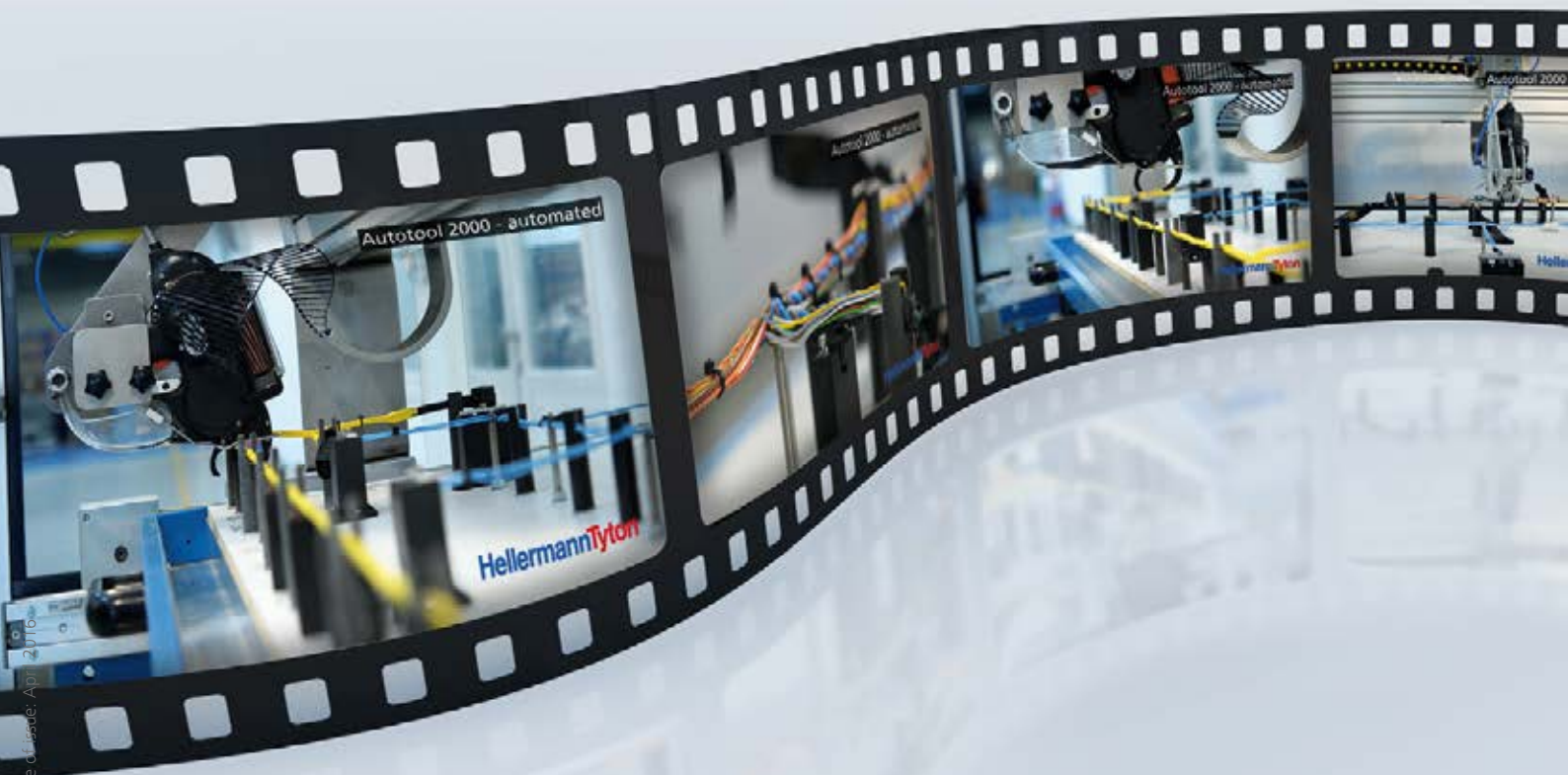


Please find the corresponding Bundling Clips on page 503.

Autotool 2000 – automated solutions



For more information
please contact us!



Tensioning Tools for Cable Ties



MK10-SB.
See page 513

1



MK20, MK21.
See page 513

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MK3SP.
See page 514

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MK3PNSP2.
See page 514

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EVO7/EVO7SP.
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MK7HT.
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MK7P.
See page 517

8



MK6.
See page 518

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MK9.
See page 518

10



MK9HT.
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11



MK9P.
See page 520

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Tensioning Tools for Cable Ties KR-Series



KR6/8.
See page 521

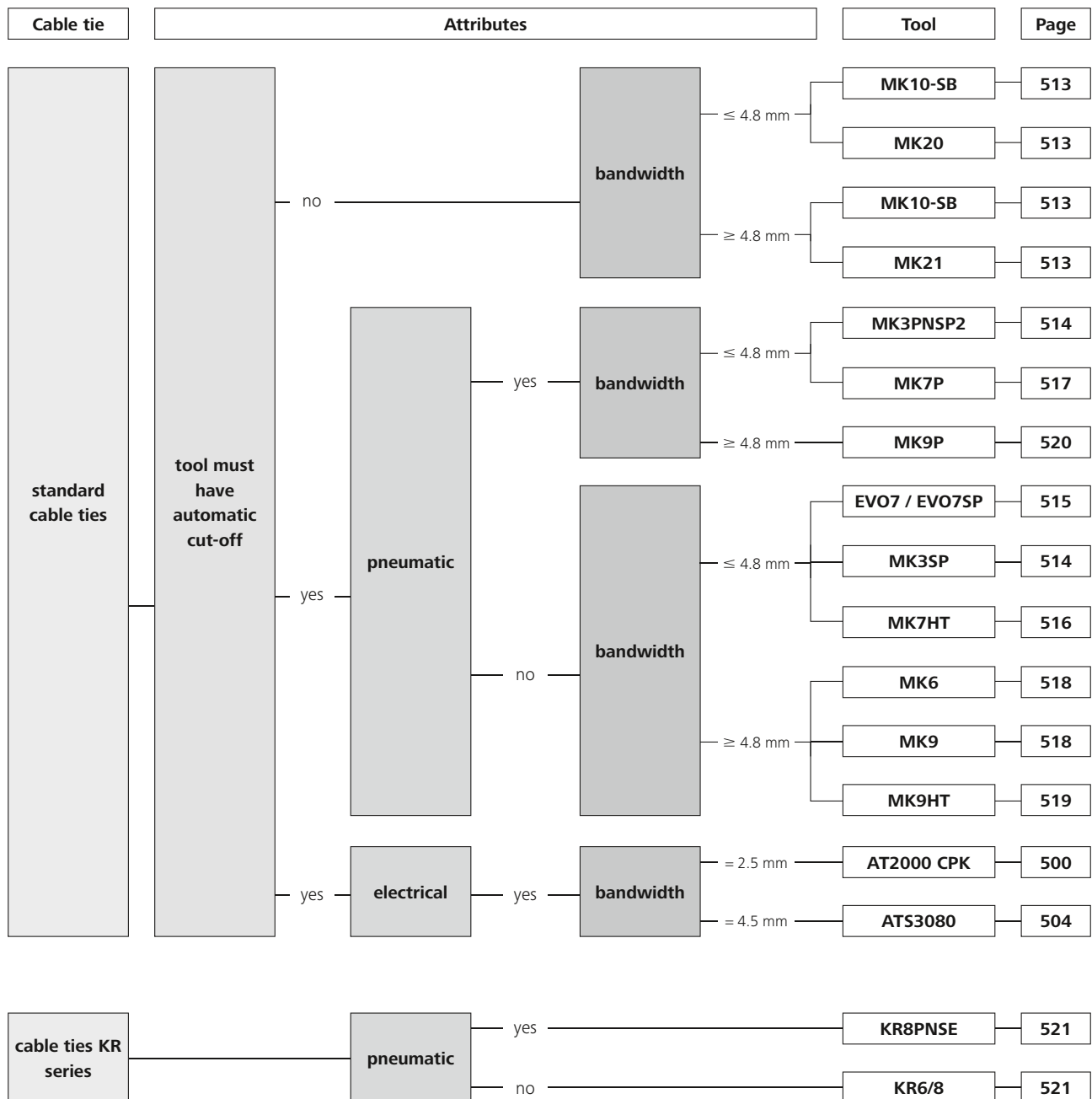
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KR8PNSE.
See page 521

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Flowchart for optimum tool selection



Tensioning Tools for Metal Ties

MK9SST.
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MK9PSST.
See page 522

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HDT16.
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KST-STG200.
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MST6.
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MST9.
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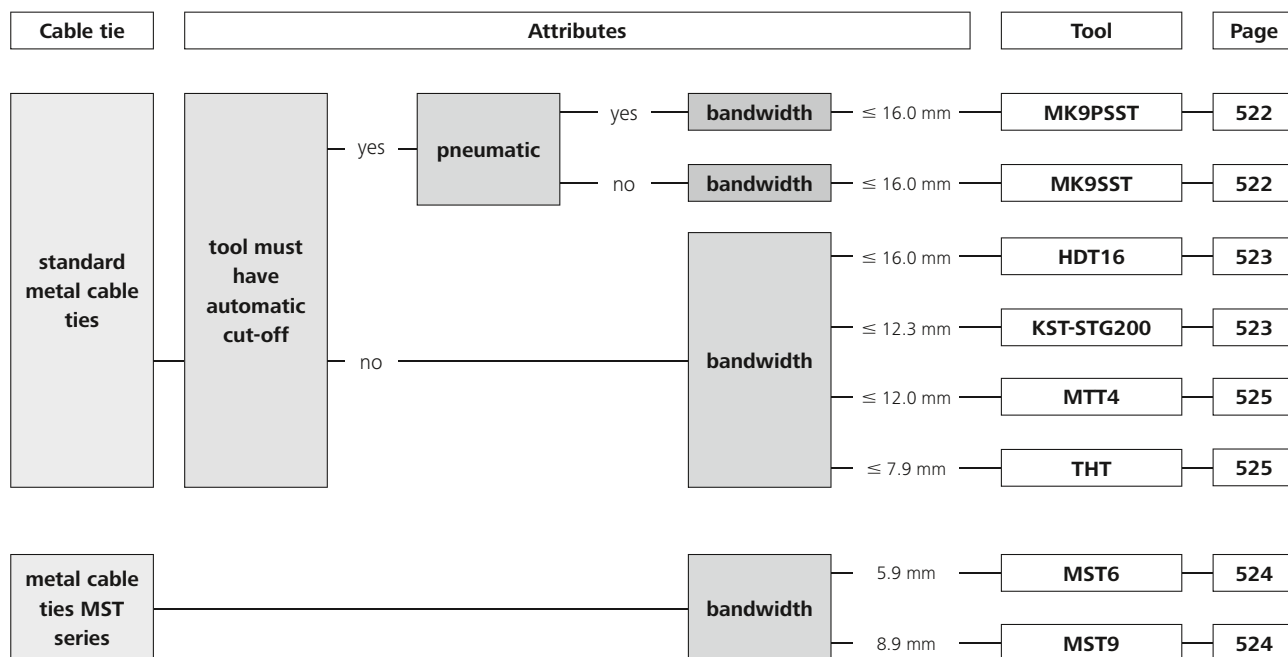
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MTT4.
See page 525

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THT.
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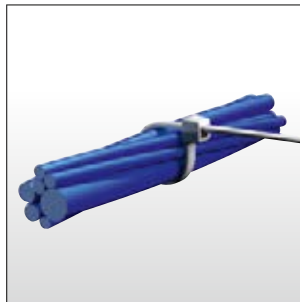
Flowchart for optimum tool selection



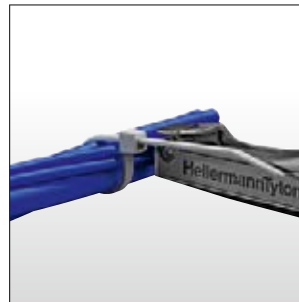
How to use a cable tie tool (using an EVO7 as an example)



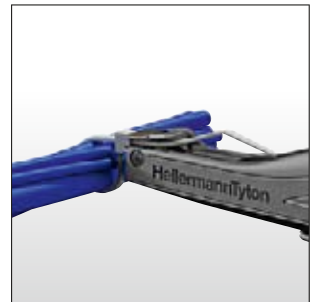
1. Use tension adjustment knob to select your desired tension setting.



2. Fasten a nylon HellermannTyton cable tie around the bundle.



3. Insert strap of cable tie through side opening of nosepiece.



4. Place front of nosepiece flush to the head of the cable tie.



5. Pull trigger until cable tie tensions and cuts.

Tool testing - Determination of tensions

To date, no generally applicable test method has been established on the market. The companies within the HellermannTyton group work with a usual force meter with minimum 10 kHz frequency of data sampling to determine the tensile forces of the tools and to guarantee the quality of the tools.

It is more difficult to test cable tie tools than would appear at first glance. It is of supreme importance to comply with a standardised test procedure and consistent test conditions, e.g. the size and cross-section of the cable ties and the water content of the tie. A test using different ties and / or different conditioning can easily lead to different values.

In general, the speed of cut-off, the position of the tool with respect to the cable tie, the condition of the wearing parts in the tool and the state of the cable tie play a fundamental role in the determination of tensile forces.

Therefore we must point out that any values we provide must only ever be regarded as guide values for your information. The values cannot be transferred into practice 'one for one'.

In our user instructions, we specify an adjustment range for each type of cable tie. If tension values must be documented or comply with a specification, we recommend that you adjust them with the aid of the

force meter. Also, as a guideline, half the minimum holding strength of the cable tie should be used as tensile force.

The minimum tensile strength (also referred to as minimum unlocking strength) is the least force which the cable tie can withstand before it tears or stretches. This strength is determined using a threaded tie, hence the following formula should be used for guidance as to the correct tensile force of the tool:

$$\frac{\text{Min. tensile strength}}{2} = \text{rec. tensile force}$$

Example:

$$T50R = \frac{225 \text{ N min. tensile strength}}{2}$$

$$\frac{225 \text{ N}}{2} = 112.5 \text{ N rec. tensile force according to formula}$$

The tensile force can of course be adjusted up or down, in line with the corresponding application.

Please bear in mind that this statement applies only to HellermannTyton products. Cable ties from other manufacturers may require a higher or lower force setting.

In order to secure the device against manipulation or unintentional maladjustment after it has been adjusted using the force meter, HellermannTyton offers an adjustment safety cap (Art. No.: 110-07200 for MK7HT, MK7P, MK9, MK9HT, MK9SST, MK9P) which you can push

onto the device after removing the adjustment unit (loosening a screw is all it takes to remove).

After a period of time, to be defined, you test the device again and if necessary re-adjust it. The problem of determination of forces depends on the individual case and has no direct connection with the quality of our product. An exact value for each setting (e. g. in Newtons), without stating a tolerance, cannot be confirmed.

Test set-up with a usual force meter and EV07 cable tie tool.



The following describes how to check the tension force of a manual tensioning tool.

1. Lay the cable tie (green) into the fixture (A).
2. Bring the nose piece of the tensioning tool (B) flush to the test block (C).
3. Insert the strap of the cable tie into the tensioning tool and pull the strap flush against the fixture (A).
4. Re-set the force meter (D) to zero.
5. Pull the trigger of the tensioning tool continuously until the cable tie is cut.
6. The tension force achieved at the cut off point is determined.



Manual Tensioning Tool for Cable ties with low profile head

MK10-SB up to 9.5 mm strap width

Features and Benefits

- Ideal for easy handling of entire HellermannTyton RPE and PE-Series cable ties
- Tensions and cuts off pre-looped cable ties flush at the head



MK10-SB.

TYPE	Strap Width max. (G)	Strap Thickness max.	Weight	Article-No.
MK10-SB	9.5	2.5	0.33 kg	110-10001

All dimensions in mm. Subject to technical changes.

E.R.D.F.

For product specific approvals and specifications please refer to the Appendix.

Manual Tensioning Tool for Cable Ties, simple version

MK20 up to 4.8 mm strap width

MK21 up to 7.6 mm strap width

Features and Benefits

- Lightweight, ergonomic tools
- For tensioning and cutting HellermannTyton standard cable ties 4.8 - 7.6 mm wide
- MK20 and MK21 ideal for on-site assembly
- Mounted and pre-tensioned ties are cut off by twisting the tool



MK20, MK21.



Apply.



Tension.



Twist to cut.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK20	4.8	1.5	0.05 kg	110-20006
MK21	7.6	2.5	0.05 kg	110-21016

All dimensions in mm. Subject to technical changes.



Manual Tensioning Tool with Metal Housing

MK3SP up to 4.8 mm strap width

This tough metal tool MK3SP is used by harness makers for the automotive and white goods industries, as well as in aerospace, railway and medical.

Features and Benefits

- Tough metal tool for HellermannTyton plastic cable ties up to 4.8 mm width
- For consistent tensioning and automatically flush cutting
- Infinitely adjustable tensioning force
- Reliable and low maintenance



MK3SP.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK3SP	4.8	1.5	0.33 kg	110-03500
SP MK3SP replacement blade	-	-	0.01 kg	110-03524

All dimensions in mm. Subject to technical changes.

Pneumatic Tensioning Tool with Metal Housing

MK3PNSP2 up to 4.8 mm strap width

Features and Benefits

- Pneumatic tensioning tool
- Tough metal housing
- For cable ties up to 4.8 mm width
- For consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force
- High application speed
- Reliable and low maintenance



MK3PNSP2.

Air Supply	Non oiled / oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm
L x H x W	approx. 225 x 140 x 40 mm
Specifications	CE, GS

RoHS



TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK3PNSP2	4.8	1.5	0.56 kg	110-03400
SP compressed air hose	-	-	0.35 kg	110-30002
SP MK3PNSP2 cutting blade	-	-	0.01 kg	110-30101

All dimensions in mm. Subject to technical changes.



For product specific approvals and specifications please refer to the Appendix.



Manual Tensioning Tool with Plastic Housing

EVO7 up to 4.8 mm strap width

Features and Benefits

- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low maintenance
- Fast and precise application with minimum effort (TLC mechanism)
- Convenient and simple tension adjustment
- Extended, slim nose for use in narrow spaces
- Housing made of resilient and lightweight glass fibre-reinforced polyester
- Standard grip span (90 mm) and short grip span (80 mm) available



EVO7.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
EVO7	4.8	1.5	0.28 kg	110-70129
EVO7SP	4.8	1.5	0.28 kg	110-70130
BLADEKT	-	-	-	110-70106

All dimensions in mm. Subject to technical changes.

TLC-Technology: Tension – Lock – Cut

The new EVO7 protects muscles and joints and increases effectiveness

- Less recoil shock reduces impact to the operator's hand
- Application of force is significantly reduced



Application video: EVO7



1. Tension: Tie is tensioned as usual.

2. Lock: When the desired tension is met the locking mechanism locks the tie in place.



3. Cut: Innovative, effortless and less recoil shock cut-off function.



For product specific approvals and specifications please refer to the Appendix.



Manual Processing Tool with Plastic Housing

MK7HT up to 4.8 mm strap width

MK7HT application tool is mainly used to apply cable ties in harness making industries.

Features and Benefits

- Light glass-fibre-reinforced housing
- Ergonomic design
- For cable ties up to 4.8 mm width
- MK7 HighTension version with higher tension force than MK7
- Consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force combined with three-step quick adjustment



MK7HT.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK7HT	4.8	1.5	0.29 kg	110-07000
SP MK7HT replacement blade	-	-	0.01 kg	110-07511
SP lock cap tensioning knob	-	-	0.01 kg	110-07200

All dimensions in mm. Subject to technical changes.



Pneumatic Tensioning Tool with Plastic Housing

MK7P up to 4.8 mm strap width

The MK7P pneumatic bundling tool sets a new benchmark for the rational application of ties in the industrial production process. Improved compressed air supply moves the tensioning piston faster than in comparable tools.

Features and Benefits

- Pneumatic tensioning tool
- Light glass-fibre-reinforced housing
- For cable ties up to 4.8 mm width
- For consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force
- High application speed



MK7P.



The easy to use quick-set-knob.

Air Supply	Non oiled / oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm
L x H x W	approx. 220 x 170 x 40 mm
Specifications	CE, GS

RoHS

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK7P	4.8	1.5	0.43 kg	110-07100
SP compressed air hose	-	-	0.35 kg	110-30002
SP MK7P replacement blade	-	-	0.01 kg	110-07111
SP lock cap tensioning knob	-	-	0.01 kg	110-07200

All dimensions in mm. Subject to technical changes.



For product specific approvals and specifications please refer to the Appendix.



Manual Tensioning Tool with Metal Housing

MK6 up to 9.0 mm strap width

Features and Benefits

- Tough metal tool
- For cable ties up to 9.0 mm width
- For consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force
- Reliable and low maintenance



MK6.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK6	9.0	2.0	0.52 kg	110-06000
SP MK6 replacement blade	-	-	0.01 kg	110-06026

All dimensions in mm. Subject to technical changes.

Manual Tensioning Tool with Plastic Housing

MK9 up to 13.5 mm strap width

MK9 tool is used to apply bigger cable ties as they are used in trucks and busses. MIL and VG certification allows the use of MK9 for military vehicle and aviation construction.

Features and Benefits

- Glass-fibre-reinforced housing
- Ergonomic design
- For HellermannTyton plastic cable ties up to 13.5 mm width
- Consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force combined with two-step quick adjustment
- MIL and VG approved



MK9.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK9	13.5	2.0	0.39 kg	110-09500
SP MK9 replacement blade	-	-	0.01 kg	110-09511
SP lock cap tensioning knob	-	-	0.01 kg	110-07200

All dimensions in mm. Subject to technical changes.



Manual Tensioning Tool with Plastic Housing

MK9HT up to 13.5 mm strap width

The MK9HT boasts especially high tensioning forces. Ideal for applications where larger cable ties need to be securely fastened, such as in truck and bus construction.

Features and Benefits

- Glass-fibre-reinforced housing
- Ergonomic design
- For cable ties up to 13.5 mm width
- MK9 HighTension version with higher tension force than MK9
- Consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force combined with two-step quick adjustment



MK9HT.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK9HT	13.5	2.0	0.39 kg	110-09000
SP MK9 replacement blade	-	-	0.01 kg	110-09511
SP lock cap tensioning knob	-	-	0.01 kg	110-07200

All dimensions in mm. Subject to technical changes.



Pneumatic Tensioning Tool with Plastic Housing

MK9P up to 13.5 mm strap width

The MK9P is constructed with heavy duty parts to ensure optimum performance. It is ideally designed to apply heavy-duty ties that are used in vehicle construction such as trucks, busses and railways.

Features and Benefits

- Pneumatic tensioning tool
- Glass-fibre-reinforced housing
- For cable ties up to 13.5 mm width
- For consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force
- High application speed
- Holding ring for a balancer
- Option of lower or upper air attachment



MK9P.



MK9P is also available with upper air attachment.

Air Supply	Non oiled / oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm
L x H x W	approx. 280 x 200 x 55 mm
Specifications	CE, GS

RoHS

TYPE	Strap Width max.	Strap Thickness max.	Weight	Air att. Position	Article-No.
MK9P	13.5	2.5	0.91 kg	Lower air connection	110-09100
	13.5	2.5	0.91 kg	Top air connection	110-09110
SP compressed air hose	-	-	0.35 kg	-	110-30002
SP lock cap tensioning knob	-	-	0.01 kg	-	110-07200
SP MK9P replacement blade	-	-	0.01 kg	-	110-09111

All dimensions in mm. Subject to technical changes.



For product specific approvals and specifications please refer to the Appendix.



Manual Tensioning Tool for KR-Series

KR6/8

Application tool KR6/8 crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very permanent connection.

Features and Benefits

- Tough metal tool
- For applying KR-cable ties only
- For tensioning, fixing and cutting KR-cable ties
- Simply change the front plate to apply two different strap widths: 6 mm and 8 mm



KR6/8.

TYPE	For Ties	Strap Width max.	Weight	Article-No.
KR6/8	KR6, KR8	8.0	0.52 kg	121-00680
SP KR6/8 replacement blade	KR6, KR8	-	0.01 kg	122-68019

All dimensions in mm. Subject to technical changes.

Pneumatic Tensioning Tool for KR-Series

KR8PNSE

Application tool KR8PNSE crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very permanent connection.

Features and Benefits

- Tough metal tool
- Pneumatic
- For applying KR-cable ties only
- For tensioning, fixing and automatically cutting KR-cable ties
- Tensioning force can be adapted with the air pressure
- Holding ring for a balancer



KR8PNSE.

Air Supply	Non oiled / oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	4 Bar
Hose Internal Diameter	6.0 mm
L x H x W	approx. 320 x 210 x 50 mm
Specifications	CE, GS

RoHS

TYPE	For Ties	Strap Width max.	Weight	Article-No.
KR8PNSE	KR8	8.0	1.56 kg	121-00889
SP KR8PNSE replacement blade	KR8	-	0.01 kg	122-80032

All dimensions in mm. Subject to technical changes.



For product specific approvals and specifications please refer to the Appendix.



Manual Tensioning Tool for Metal Ties MBT-Series

MK9SST up to 16.0 mm strap width

The MK9SST is constructed with heavy duty parts to ensure optimum performance. It is designed to apply our MBT cable ties with a strap width of up to 16 mm. The tool is ideally suited for use in most arduous environments such as those found on board ships, oil rigs, construction sites or in nuclear power stations.

Features and Benefits

- Glass-fibre-reinforced housing
- Ergonomic design
- Consistent tensioning and automatic cutting of metal ties (MBT-Series)
- Infinitely adjustable tension force combined with two-step quick adjustment



MK9SST.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK9SST	16.0	0.3	0.60 kg	110-95000
SP MK9SST replacement blade	-	-	0.01 kg	110-95273

All dimensions in mm. Subject to technical changes.

Pneumatic Tensioning Tool for Metal Ties MBT-Series

MK9PSST up to 16.0 mm strap width

The MK9 Pneumatic Stainless Steel Tool (MK9PSST) is constructed with heavy-duty parts to ensure optimum performance in demanding environments. It is ideally designed to apply stainless steel MBT-Series (Metal Ball Tie Series) up to 16.0 mm width.

Features and Benefits

- Unique levels of repeatability and accuracy
- High application speed and low maintenance
- Improved compressed air supply for faster tensioning piston movement
- Shorter processing time and greater volume of connecting tie application
- Ergonomic design
- Automatic ejection of cut-off cable tie end
- Ideally designed to apply stainless steel MBT-Series up to 16.0 mm width
- Air pressure between 3 and 6 bar



MK9PSST.

Air Supply	Non oiled / oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm
L x H x W	approx. 280 x 200 x 55 mm

RoHS

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK9PSST	16.0	0.7	0.91 kg	110-95350
SP MK9PSST replacement blade	-	-	0.01 kg	110-95307
SP lock cap tensioning knob	-	-	0.01 kg	110-07200

All dimensions in mm. Subject to technical changes.



Manual Tensioning Tool for Metal Ties MBT-, MLT- and AMT-Series

HDT16 up to 16.0 mm strap width

The HDT16 application tool is designed for installing heavy duty stainless steel cable ties within a range of industries such as shipbuilding, oil rigs, mining and mass transit. The tool can easily be adjusted making it suitable for applying both MBT, MLT and AMT cable ties with a strap width of up to 16 mm.

Features and Benefits

- Two way nose piece for use with MBT-Series and AMT-, MLT-Series stainless steel cable ties
- Easy adjustment of the handles to ensure the most ergonomic position for the operator
- Integrated cutting mechanism delivering a flush cut and professional finish every time
- The ideal tool for achieving a perfect installation of MBT, MLT and AMT cable ties



HDT16.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
HDT16	16.0	0.4	1.00 kg	110-40000

All dimensions in mm. Subject to technical changes.

Manual Tensioning Tool for Metal Ties MBT-Series

KST-STG200 up to 12.3 mm strap width

The KST-STG200 application tool is designed for installing heavy duty stainless steel cable ties within a range of industries such as shipbuilding, oil rigs, mining and mass transit. The tensioning strength can be adjusted while pulling the trigger. The tool is easy to handle and far more reliable than trying to tension the ties by hand.

Features and Benefits

- Tough metal tool
- Operator controlled tensioning
- Cut off by pulling the hand lever



KST-STG200.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
KST-STG200	12.3	0.3	0.56 kg	110-09950

All dimensions in mm. Subject to technical changes.



Manual Tensioning Tool for Metal Ties

MST-S Series

MST6 for 5.9 mm strap width

The MST6 tool has been specially developed for reliably applying HellermannTyton MST-Series metal cable ties. The punch-lock mechanism mechanically crimps the tie ensuring a reliable bundling with perfect resistance to vibration. The tension force is freely adjustable by the operator.

Features and Benefits

- Tough metal tool
- Ergonomic design
- Consistent tensioning and automatically cutting of metal ties
- Designed for use with MST-S Series ties (5.9 mm)
- For tensioning, fixing and cutting MST-S metal ties only



MST6.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MST6	5.9	0.3	0.53 kg	110-61000
SP MST6-P29 (blade)	-	-	0.01 kg	110-61001
SP MST6-P30 (punch)	-	-	0.01 kg	110-61002

All dimensions in mm. Subject to technical changes.



One Step to the Web!

Manual Tensioning Tool for Metal Ties

MST-M Series

MST9 for 8.9 mm strap width

The MST9 tool has been specially developed for reliably applying HellermannTyton metal cable ties of the MST-M Series. The punch-lock mechanism mechanically crimps the tie ensuring a reliable bundling with perfect resistance to vibration. The tension force is freely adjustable by the operator.

Features and Benefits

- Tough metal tool
- Ergonomic design
- Consistent tensioning and automatic cutting of metal ties
- Designed for use with MST-M Series ties (8.9 mm)



MST9.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MST9	8.9	0.4	0.54 kg	110-13000
SP MST9-P29 (blade)	-	-	0.01 kg	110-13001
SP MST9-P30 (punch)	-	-	0.01 kg	110-13002

All dimensions in mm. Subject to technical changes.



Manual Tensioning Tool for Metal Ties MLT-Series

MTT4 up to 12.0 mm strap width

The MTT4 tensioning tool is a lightweight manual processing tool which is easy to use for application of the MLT (releasable) series. The extended nose piece ensures the fixing length of the MLT cable tie. While using the ratchet system, the operator can easily cut off the tie at the correct length with the long cutter lever.

Features and Benefits

- Tough metal tool
- Simple ratchet operation, easy to use
- Operator controlled tensioning and cutting facility



MTT4.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MTT4	12.0	0.7	0.78 kg	110-04000

All dimensions in mm. Subject to technical changes.

Manual Tensioning Tool for Metal Ties MBT-Series

THT up to 7.9 mm strap width

The THT Tool is ideal for occasional users of stainless steel MBT cable ties. The THT Tool allows simple hand tensioning of MBT ties for quick and easy installations, coiling the tail for a safe, neat finish.

Features and Benefits

- Ergonomic T-Handle design with rubber grip
- Suitable for MBT cable ties (4.6 mm and 7.9 mm)
- Simple tensioning mechanism coils the strap tail quickly without cut off



THT.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
THT Tool	7.9	1.0	0.15 kg	110-09970

All dimensions in mm. Subject to technical changes.



Manual Cutting tool for plastic ties

CUTties

The CUTties is a cutting tool for removing plastic cable ties. It ensures the strap of the tie is cut while preserving the wires and harnesses from being damaged in the process. Its use is recommended in many applications for which wires and harnesses have a high added value, in particular for railway and aviation industries.

Features and Benefits

- Cutting tool for plastic ties
- Tie can be cut off at any part of the strap
- Ensures the cable isolation from being damaged
- Light-weight aluminium housing, ergonomically designed
- Single-handed operation
- Three tools for cable tie width from 2.3 to 4.8 mm
- Coloured push rods allows their identification



The CUTties is a precise cutting tool for plastic ties.



Bring the tool perpendicular to the tie...



... apply light pressure...



... press on the button whilst maintaining pressure on the tool...



... release the button and remove the tool, the tie is cut.

TYPE	For Cable Tie Width	Colour	Weight	Article-No.
CUTties-1	2.3 - 2.8	Blue (BU), Yellow (YE)	0.075 kg	110-05000
CUTties-3	3.3 - 3.8	Blue (BU), Green (GN)	0.085 kg	110-05001
CUTties-5	4.0 - 4.8	Blue (BU), Red (RD)	0.089 kg	110-05002

All dimensions in mm. Subject to technical changes.



Snapper Tools

MSNP1-70 for Snapper Size 1 to 70

ASNP2-22 for Snapper Size 2 to 22

ASNP24-70 for Snapper Size 24 to 70

Features and Benefits

- For efficient fixing of the snapper hose clips
- MSNP tool: handy for installation on site
- ASNP tool: suitable for series production. The retaining screw limits the draw-in area and prevents overstretching of the snapper



Snapper Application Tools MSNP1-70 and ASNP24-70.



Pneumatic Tools for Snapper are available on request. Contact us!



Snapper hose clips for tubes and harnesses see page 174.



Snapper Application Tool ASNP2-22.

TYPE	Application	Weight	Material	Colour	Article-No.
MSNP1-70	SNP-Series 1 up to 70	0.18 kg	Metal, Plastic	Yellow (YE)	191-01700
ASNP2-22	SNP-Series 2 up to 22	0.20 kg	Metal, Plastic	Blue (BU)	191-02220
ASNP24-70	SNP-Series 24 up to 70	0.25 kg	Metal, Plastic	Red (RD)	191-24700

Subject to technical changes.



Processing tool for heat shrinkable products

ShrinkPad 110

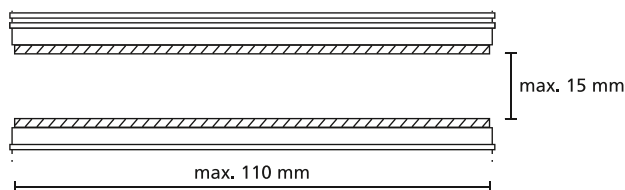
The ShrinkPad 110 provides a fast and reliable process for the recovery of thinwalled heat shrinkable products with or without an adhesive liner. The heat process takes place through a direct contact method. The key components are the two specially heated elastic pads, which encapsulate the shrinkable product whilst transferring heat effectively with minimal heat loss. The electrically heated and pneumatically controlled pads can process material to a maximum diameter of 10 mm and a maximum length of 110 mm.

Features and Benefits

- Processing by direct-contact method with specially heated, elastic pads
- Minimal lost of heat due to direct contact with the shrinking object
- Reduces the shrinking time
- Increased process security in the shrinking process due to a temperature-controlled heat source
- Good integration into automated workflows possible
- Very high level of job security
- Long life span of the pads



Application video:
ShrinkPad 110



Shrink pads: Max. processing dimensions



Heat shrink processing tool ShrinkPad 110 - control unit, shrink press unit, power cable and foot switch.



ShrinkPad 110 - for fast and reliable heat shrink processing.



Shrink pad set.

Power Supply	230V AC / 50 Hz
Air Supply	Non oiled / oiled
Air Pressure (max.)	6 Bar
Hose Internal Diameter	6.0 mm
Weight	12.5 kg
Operating Temperature	+100 °C to +300 °C
Cycle Time	0.5 to 10 sec.
Operation Type	foot switch
L x H x W	Control unit approx. 205 x 210 x 160 mm, Shrink press unit approx. 140 x 130 x 220 mm, Pad approx. 110 x 7 x 20 mm
Specifications	CE

RoHS

TYPE	Carton Quantity	Article-No.
ShrinkPad 110	1 pcs.	391-30000
Pad for ShrinkPad 110	2 pcs.	391-30001

Subject to technical changes.



For product specific approvals and specifications please refer to the Appendix.



Gas powered Hot Air Tool

E4500

The E4500 hot air gun starter kit is ideal for working in cramped spaces or where there is no power supply. The kit includes a E4500 hot air tool with protective spring, gas cartridge P445, reflector nozzle Z2 and flat nozzle Z3. The hot air tool is suitable for shrinking all types of heat shrink products including tubing, shapes and cable repair sleeves. It can also be used for the bending and shaping of PVC pipes, soft soldering of copper pipes, drying, defrosting (of locks), heating and paint stripping.

Features and Benefits

- Cordless hot air gun works with special gas cartridge
- Does not need any power supply
- Suitable for outdoor use
- Designed for heat shrink tubing, end caps and moulded shapes
- Supplied with protective spring, two nozzles and a gas cartridge
- Allows precise working in any position even in restricted spaces
- Can be operated on its stand for hands free use
- Light weight tool
- Operating time of cartridge: approx. 1.5 hours
- With easy Piezo ignition



E4500-H with heat protecting spring.



One Step to the Web!



Practical hot air gun kit E4500 with accessories.



Gas cartridge P445.

TYPE	Description	Article-No.
E4500	Hot air gun with protective spring incl. gas cartridge, reflector nozzle Z2 and flat nozzle Z3	391-90002
P445	P445 Refill Gas Cartridge (Butane, Propane, Propene)	391-90101

Subject to technical changes.



Electrical Hot Air Tool

H5002 - handy tool

For applying heat shrinkable products like thin walled shrink tubing and moulded shapes.

Features and Benefits

- Lightweight and compact hot air tool
- Enables comfortable, fatigue-free work
- Temperature electronically controlled from 100-600 °C, cold air step of 50 °C
- Air-flow regulation adjusted in two stages (300 l/min and 500 l/min)



H5002 - The light, convenient hot-air tool.

TYPE	Air Flow l/min	Operating Temperature	Standby Temp. °C	Wattage	Operational Voltage	Weight	Article-No.
H5002	300 - 500 l/min	+100 °C to +600 °C	50 °C	2,000 W	230 V AC ~ / 230-240 V	0.9 kg	391-50200

Subject to technical changes.

Electrical Hot Air Tool

H5004 - for professional use

H5004 electrical hot air tool is designed for shrinking down many heat shrinkable products like thin wall tubing, with and without adhesive, end caps and moulded shapes.

Features and Benefits

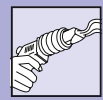
- Professional hot air gun
- Temperature electronically controlled
- Air flow regulation
- Equipped with LED temperature indication enabling precise temperature adjustment



H5004 - for professional use.

TYPE	Air Flow l/min	Operating Temperature	Standby Temp. °C	Wattage	Operational Voltage	Weight	Article-No.
H5004	150 - 500 l/min	+50 °C to +650 °C	50 °C	2,300 W	230-240V, 50Hz	1.13 kg	391-50400

Subject to technical changes.



Three-Pronged Pliers for Sleeves and Grommets

NA

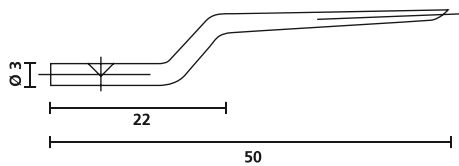
Three-pronged expansion tools are used to ensure speedy and precise application of expandable markers and sleeves.

Features and Benefits

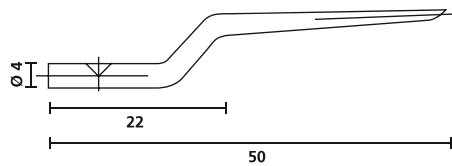
- To easily affix expandable sleeves of every type onto cables/connectors
- Sleeve simply slide onto the prongs
- Push pliers and pull over cable
- Close pliers, sleeve is placed easily
- Hellerrine lubricant recommended for easy operation



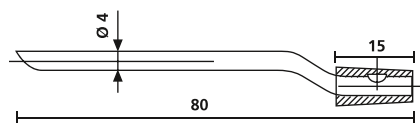
Fast, secure application with the NA three-pronged pliers.



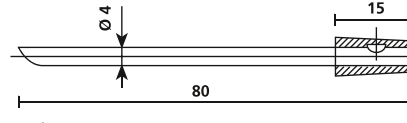
Replacement prong NA0/1



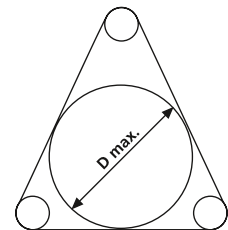
Replacement prong NA1K/3



Replacement prong NA4/5



Replacement prong NA8/10



Three-prong pliers max. application diameter

TYPE	Bundle Ø min.	Bundle Ø max.	Ø D max.	Max. length of marker	Article-No.
NA/01	1.3	1.8	10.5	28	621-10001
NA1K/3	2.5	5.0	11.0	28	621-10103
NA4/5	7.5	10.0	15.5	50	621-10405
NA8/10	12.0	17.0	25.5	60	621-10810
NA/01 PRONG	1.3	1.8	-	28	621-60001
NA1K/3 PRONG	2.5	5.0	-	28	621-60103
NA4/5 PRONG	7.5	10.0	-	50	621-60405
NA8/10 PRONG	12.0	17.0	-	60	621-60810

All dimensions in mm. Subject to technical changes.



Three-Pronged Pliers for Sleeves and Grommets

VA2.5/5 - Reinforced

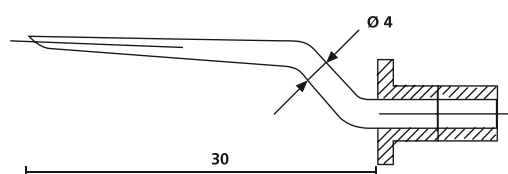
Expansion tools are used to ensure speedy and precise application of expandable markers and sleeves.

Features and Benefits

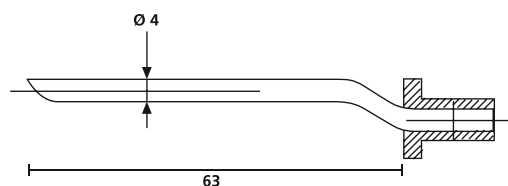
- Suitable for expanding tubing cut lengths and rubber parts
- Withstands high loading
- Set of 3 2.5/5 pins
- Replacement pins available in sizes 8 and 18



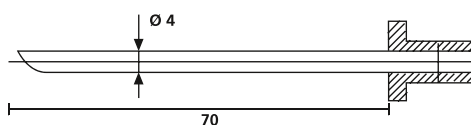
VA2.5/5.



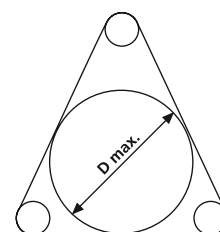
Replacement prong size 2.5/5



Replacement prong size 8



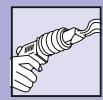
Replacement prong size 18



Three-prong pliers max. application diameter

TYPE	Bundle Ø min.	Bundle Ø max.	Ø D max.	Article-No.
VA2.5/5	2.5	5.0	26.0	621-00200
VA-2.5/5 PRONG	2.5	5.0	26.0	621-01200
VA2.5/5 PRONG 8	8.0	10.0	28.0	621-02200
VA2.5/5 PRONG 18	18.0	20.0	30.0	621-03200

All dimensions in mm. Subject to technical changes.



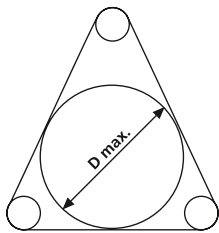
Three-Pronged Pliers for Sleeves and Grommets

K, S, SS

Three-pronged expansion tools are used to ensure speedy and precise application of expandable markers and sleeves.

Features and Benefits

- For speedy application of markers and sleeves
- Hellerine lubricant recommended for easy operation
- Handy D kit contains a tool body, a range of prongs and small bottle of Hellerine lubricant



Three-prong pliers max. application diameter



Fast, secure application with the three-pronged expansion tools.

TYPE	Bundle Ø min.	Bundle Ø max.	Ø D max.	Max. length of marker	Article-No.
D KIT	1.2	11.5	17.0	32	621-80005
K TOOL	5.0	10.0	17.0	32	621-80007
SS TOOL	1.2	2.0	15.0	20	621-80008
S TOOL	2.5	4.0	15.0	20	621-80009

All dimensions in mm. Subject to technical changes.

Application Tooling

Application Tooling for Braided Sleeves



Hot cutting tool

HSG0

The HSG0 hand tool is used to cut braided sleeving cleanly and without fraying.

Features and Benefits

- Light and sturdy
- Heats up quickly with the press of button and cuts in seconds
- The yarn melts and fuses together
- No fraying of the sleeving



A replacement blade is available with the item number 170-99002.



The HSG0 hot cutting tool prevents the braided sleeving from fraying.

TYPE	Weight	Colour	Article-No.
HSG0	1.15 kg	Blue (BU)	170-99001

Subject to technical changes.



Helafix Tool

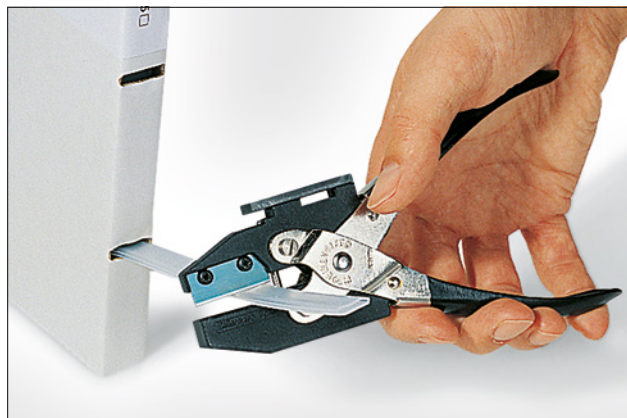
HCT1 for carrier size HCR09

HCT2 for carrier size HCR12

HCT1 and HCT2 tools are ideal for cleanly cutting the carrier strip as well as punching out the securing holes. For HCR06, HCR18 and HCR24, the front part of the pliers can be used. To fix the character holders HC and HCR simply use the T18 range of cable ties, fixings or rivets.

Features and Benefits

- Cleanly cut Helafix HCR carrier tubing
- Punch securing holes on edges of HCR09 (HCT1) and HCR12 (HCT2)
- Apply punched HCR09 and HCR12 with T18 range of cable ties
- Suitable for punching rivet holes in HCR06, HCR18 and HCR24 tubing
- Punch hole diameter 2.5 mm
- Fix with T18 range of cable ties, or suitable rivets



Any length can be used...



...just cut to suit.

TYPE	For Carrier Width	For Size	Ø D	Article-No.
HCT1	10.0	HCR09	2.5	525-00010
HCT2	13.0	HCR12	2.5	525-00013

All dimensions in mm. Subject to technical changes.

Manual and pneumatic processing tools:
The professional way to fasten metal cable ties

