

Automatic machines

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Automatic machines

Rationalised crimping increasingly demands the automation of individual process stages. “Optimised installation times” is the requirement that innovative markets impose on their strategic partners.

Automatic machines that permit rational processing of the conductor material are the answer to a future-oriented approach, with flexibility and functionality playing a major role for the customer.

Weidmüller’s comprehensive range of automatic machines provides professional and rational solutions for cable machining and processing.



CutFix 8

Cable cutting machines



The CutFix 8 is a microprocessor-controlled tool for the automatic cutting to length of solid and flexible single conductors with a max. outer diameter of 8 mm.

Repetition accuracy is achieved by a precise servo DC drive.

- Optimised dimensional accuracy due to length correction (e.g. for special insulators)
- Adjustable cable clamping force
- RS 232 interface for controlling the automatic sizer via an IBM-compatible PC
- Software (supplied) enables management, documentation and transfer of cutting jobs via a PC
- Removable hand-held terminal for entering individual cutting jobs

Technical data

CutFix 8

Cutting capacity	
Single conductor, flexible	0.14 ... 10 mm ²
Single conductor, solid	0.5 ... 2.5 mm ²
Aperture	Max. 8 mm outer Ø
Feed rate	
	1.5 m/sec
Length correction	
	Slip correction in mm adjustable for specific articles
Keypad	
	4 x 4 buttons for data input
Display	
	4 lines/20 characters
Length preselection	
	2 mm to 1000 mm
Amount preselection	
	Adjustable partial amount preselection
Switch-off	
	When end of cable is reached
Memory	
	For up to 256 cutting jobs
Serial interface	
	1
Software	
	For data transfer to PC
Electrical connection	
	230 V/50 Hz
Connected load	
	Approx. 200 W
Dimensions D x W x H (mm)	
	330 x 380 x 498 with keypad 330 x 390 x 408 w/o keypad
Weight	
	Approx. 24 kg

Ordering data

Type	Qty	Order No.
CutFix 8	1	9023100000

CCM

Cable cutting machines



The CCM microprocessor-controlled automatic cutter cuts to length ribbon cables, round cables, insulating conduits and tubes. Its high repeat accuracy is achieved using a precision AC servodrive. The dimensional accuracy can, for particular requirements, be optimised by means of length correction. Using a special subprogram, it is simplicity itself for customers to adapt the program interface to their own company-specific requirements. The pressure on the cable from the drive can be adjusted by the built-in pressure regulator that controls the pneumatic opening.

Software is available that allows cutting jobs to be managed, documented and transferred. The CCM can be used wherever stationary preparation of medium and large cable series is required. It comes with handles for easy relocation.

Technical data

CCM

Cutting force		Approx. 2900 N at 6 bar operating pressure
Aperture width		75 mm
Aperture height		40 mm
Ribbon cable		Max. cable width 75 mm
Solid and sheathed cables		up to Ø 25
Single conductor, flexible		0.08 ... 70 mm ²
Single conductor, solid		0.08 ... 16 mm ²
Insulating tubes and hoses		Up to nominal width 29 mm
Feeding speed		0 – 3 m/sec, programmable
Length correction		Slip correction in mm programmable for specific articles
Keypad		4 x 4 buttons for data input, 4 direct function buttons
Display		4 lines/40 characters
Languages		D, NL, F, UK, P, I, E, CZ
Length preselection		1 mm to 999999 mm
Amount preselection		Adjustable partial amount preselection
Switch-off		When cable end is reached
Memory		For up to 20,000 cutting jobs
Serial interface		1
Software (optional)		For data transfer to PC, additional programs for inkjet and embossing devices
Electrical connection		220 V/230 V AC
Connected load		Approx. 750W
Air connection		6 – 10 bar
Dimensions D x W x H (mm)		470 x 360 x 370
Exit tray		200 mm
Weight		Approx. 35 kg

Ordering data

Type	Qty	Order No.
CCM	1	9025440000

Stripping machines

Stripping machines

- Stripping of flexible conductors to DIN VDE 0295, cl. 5
- Partial stripping, insulation remains on end of conductor
- No need to change tools
- Quick and easy setting for the respective conductor cross-section
- Stripping length from 3 to 20 mm
- Min. conductor length 22 mm + stripping length
- Electric drive

Powerstripper 6.0



Powerstripper is a stripping machine with electric drive for efficient and time-saving processing of conductors.

- Stripping from 0.14 to 6.0 mm²

It is designed for stripping conductors of small and medium-sized series. The quick and easy handling is the key feature of this machine.

Powerstripper 16.0



Powerstripper is a stripping machine with electric drive for efficient and time-saving processing of conductors.

- Stripping from 2.5 to 16.0 mm²

It is designed for stripping conductors of small and medium-sized series. The quick and easy handling is the key feature of this machine.

Technical data

Specification	
Stripping range	mm ²
Stripping length	mm
Min. conductor length	mm
Pull-off length	mm
Cycle time	
Electro-connector	
Connected load	

Tool data	
Dimensions D x W x H	mm
Weight	kg

Information

Powerstripper 6.0	
Stripping range	0.14 - 6.0 (-AWG16-10)
Stripping length	3-20 mm
Min. conductor length	22 mm + stripping length
Pull-off length	3-20 mm
Cycle time	approx. 1.5 s
Electro-connector	220 V/ 50 Hz
Connected load	46 VA

Tool data	
Dimensions D x W x H	mm
Weight	kg

Information

Powerstripper 16.0	
Stripping range	2.5 - 16 (-AWG 14-6)
Stripping length	3-20 mm
Min. conductor length	22 mm + stripping length
Pull-off length	3-20 mm
Cycle time	approx. 1.5 s
Electro-connector	220 V/ 50 Hz
Connected load	46 VA

Tool data	
Dimensions D x W x H	mm
Weight	kg

Information

Ordering data

Version

Type	Qty.	Order No.
Powerstripper 6.0	1	9028510000

Type	Qty.	Order No.
Powerstripper 16.0	1	9028480000

Information

Accessories

Information

Information

Information

Stripping machines

- Stripping machine with electric drive
- Stripping of flexible conductors according to DIN VDE 0295, class 5
- Partial stripping, insulation remains at wire end
- Change of tools not necessary
- Automatic adjustment on conductor cross-section

Powerstripper auto 2.5



The electrically driven stripping machine is equipped with a sensor system to detect the diameter of the conductor and then define the resulting cutting depth. This allows the accurate stripping of most common conductors with different insulations and different diameters. The adjustment of the stripping length is easy to handle.

- Stripping from 0.5 to 2.5 mm²

Powerstripper auto 2.5-20

- Stripping length from 3 to 20 mm
- Min. conductor length 22 mm + stripping length

Powerstripper auto 2.5-30

- Stripping length from 13 to 28 mm
- Min. conductor length 32 mm + stripping length

Powerstripper auto 16.0



The electrically driven stripping machine is equipped with a sensor system to detect the diameter of the conductor and then define the resulting cutting depth. This allows an accurate stripping of most common conductors with different insulations and different diameters. The adjustment of the stripping length is easy to handle.

- Stripping from 4 to 16 mm²

Powerstripper auto 16-20

- Stripping length from 3 to 20 mm
- Min. conductor length 22 mm + stripping length

Powerstripper auto 16-30

- Stripping length from 13 to 28 mm
- Min. conductor length 32 mm + stripping length

Technical data

Specification	
Stripping range	mm ²
Stripping length	mm
Min. conductor length	mm
Pull-off length	mm
Cycle time	
Electro-connector	
Connected load	

Powerstripper auto 2.5-20	Powerstripper auto 2.5-30
0.5 - 2.5 (-AWG20-14)	0.5 - 2.5 (AWG20-14)
3-20 mm	13-28 mm
22 mm + stripping length	32 mm + stripping length
1-20 mm	1-20 mm
approx. 0.5 s	approx. 0.5 s
220 V/ 50 Hz	220 V/ 50 Hz
46 VA	46 VA

Powerstripper auto 16-20	Powerstripper auto 16-30
4 - 16 mm ² (-AWG 12-6)	4 - 16 mm ² (-AWG 12-6)
3-20 mm	13-28 mm
22 mm + stripping length	32 mm + stripping length
1-20 mm	1-20 mm
approx. 1.5 s	approx. 1.5 s
220 V/ 50 Hz	220 V/ 50 Hz
46 VA	46 VA

Tool data	
Dimensions D x W x H	mm
Weight	kg

180 x 294 x 190	180 x 294 x 190
9	9

180 x 294 x 220	180 x 294 x 220
9	9

Information

Ordering data

Version

Type	Qty.	Order No.
Powerstripper auto 2.5-20	1	9027270000
Powerstripper auto 2.5-30	1	9027280000

Type	Qty.	Order No.
Powerstripper auto 16-20	1	9027290000
Powerstripper auto 16-30	1	9027300000

Information

Accessories

Information

Stripping and crimping machines

Stripping and crimping machines

- Efficient and time-saving processing of linked wire end ferrules with plastic collar on reel.
- Easily adjustable on conductors diameter
- Stripping- and crimping in one operation
- Change of tools not necessary

Crimpfix 2.5



The Crimpfix 2.5 is an electrically driven stripping and crimping machine for processing reels of linked wire end ferrules with plastic collar. The cam-operated drive mechanism works without pneumatic support. The crimping machine is compact and easy to use, and hence a convenient addition to any workplace. The simple setting of the crimping drum to the respective cross-section range makes time-consuming tool changes a thing of the past.

- Stripping and crimping in the range 0.5 - 2.5 mm²
- Time-saving and rational processing without tool changes
- Flexible and fast in use, all-electric drive

Crimpfix univ./Crimpfix univ. K



The Crimpfix universal is an electronically controlled stripping and crimping machine. It is designed to confection conductors of small to medium-sized series.

- Electro-pneumatically driven stripping and crimping automat
- Stripping and crimping of linked wire end ferrules with plastic collar on reel from 0.34 to 2.5 mm²

Crimpfix universal K

- Processing-diameter 0.34 mm², possible by easy change of tool

Technical data

Specification	
Stripping range	mm ²
Crimping length / Crimping range	mm
Length of wire end ferrule	mm
Cycle time	
Type of contact	
Cross-section range	mm ²
Connected electrical loads	
Compressed-air connection	
Tool data	
Dimensions D x W x H	mm
Weight	kg
Information	

Crimpfix 2.5	
Stripping range	0.5-2.5
Crimping length / Crimping range	8
Length of wire end ferrule	
Cycle time	approx. 2 s
Type of contact	
Cross-section range	0.5 ... 2.5
Connected electrical loads	220 V/ 50 Hz
Compressed-air connection	
Tool data	
Dimensions D x W x H	340 x 240 x 210
Weight	12
Information	

Crimpfix universal	Crimpfix universal K
Stripping range	0.5 - 2.5
Crimping length / Crimping range	8
Length of wire end ferrule	0.34 - 1
Cycle time	approx. 1 s
Type of contact	approx. 1 s
Cross-section range	0.5 ... 2.5
Connected electrical loads	0.34 ... 1
Connected electrical loads	220 V/ 50 Hz
Compressed-air connection	220 V/ 50 Hz
Compressed-air connection	5 bar
Compressed-air connection	5 bar
Tool data	
Dimensions D x W x H	310 x 390 x 415
Dimensions D x W x H	310 x 390 x 415
Weight	23
Weight	23
Information	

Ordering data

Version
Information

Type	Qty.	Order No.
Crimpfix 2.5	1	9020070000
Information		

Type	Qty.	Order No.
Crimpfix universal	1	9028500000
Crimpfix universal K	1	9027320000
Information		

Accessories

Information

Wire end ferrules see on the following pages
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Wire end ferrules see on the following pages
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Stripping and crimping machines

- Fully electronic control
- Oscillating conveyor for grabbing wire end ferrules
- Quick adjustment to the required diameter
- Change of tools not necessary, therefore efficient and time-saving processing

Crimpfix L / Crimpfix LS



The electro-pneumatically driven stripping- and crimping automats Crimpfix L and Crimpfix LS represent a new generation of automats for the efficient processing of loose wire end ferrules with plastic collar. They are designed to strip and crimp conductors in one process. The automats are designed for medium-sized series with conductor diameters from 0.5...2.5 mm².

- Changeover to other sizes is possible

Crimpfix LZ



The crimping automat Crimpfix LZ is an electro-pneumatically driven stripping- and crimping automat for the processing of twin-wire end ferrules. The wire end ferrules are automatically fed via an oscillating conveyor. It can be handled quickly and easily and is designed to confection conductors of medium-sized series.

- Oscillating conveyor for grabbing wire end ferrules
- Quick adjustment to the required diameter
- Change of tools not necessary
- Stripping and crimping of twin-wire end ferrules from 0.5 to 1.5 mm²
- Fully electronic control

Technical data

Specification	
Stripping range	mm ²
Crimping length / Crimping range	mm
Length of wire end ferrule	mm
Cycle time	
Type of contact	
Cross-section range	mm ²
Connected electrical loads	
Compressed-air connection	
Tool data	
Dimensions D x W x H	mm
Weight	kg
Information	

Crimpfix L	Crimpfix LS
0.5 - 2.5 mm ²	0.5 - 2.5 mm ²
8	6/8/10
14	12/14/16
approx. 1 s	approx. 1 s
0.5 ... 2.5	0.5 ... 2.5
220 V/ 50 Hz	220 V/ 50 Hz
5 bar	5 bar
340 x 240 x 210	340 x 240 x 210
25	25
Special sizes ø D2 available on request	

Crimpfix LZ
2 x 0.5 - 2 x 1.5mm ²
8
approx. 1 s
0.5 ... 1.5
220 V/ 50 Hz
5 bar
330 x 390 x 460
31

Ordering data

Version
Information

Type	Qty.	Order No.
Crimpfix L	1	9028530000
Crimpfix LS	1	9028540000
Information		

Type	Qty.	Order No.
Crimpfix LZ	1	9027310000
Information		

Accessories

Information

Wire end ferrules see on the following pages
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Wire end ferrules see on the following pages
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Stripping and crimping machines

CA 100

Stripping and crimping machines



CA 100 is an electronically controlled stripping and crimping machine for time-saving and efficient processing of loose ferrules.

It is designed for stationary preparation of medium-sized batches of conductors.

The machine is characterised by rapid and simple operation.

- Stripping and crimping in one operation
- Electro-pneumatic drive
- Stripping and crimping range 0.25 ... 6.0 mm²
- Processes ferrules of various length
- Rapid and easy conversion
- Vibration feeder takes loose ferrules

CA 4/8 Indent

Stripping and crimping machines



The CA 4/8 Indent automatic crimper is an electro-pneumatically driven stripping and crimping automatic machine for processing loose, twisted pin and socket contacts. The contacts are fed automatically via an oscillating conveyor set-up.

The stripping and crimping dimensions can be adjusted by a motor. It is possible to store up to 14 programs with the stripping and associated crimping dimensions.

The machine is equipped with titanium coated V blades as standard. With the help of the appropriate tools, the automatic crimper may be converted to various contacts and/or conductors.

It was developed for preparing conductors in medium-batch series for stationary use.

The automatic machine can be operated quickly and easily.

- Stripping and crimping in one operation
- Electro-pneumatic drive
- Strips and crimps 0.14 ... 2.5 mm²
- Processes loose twisted pin and socket contacts
- Rapid and simple change-over
- Vibration-feeder takes 500 loose machined contacts
- 4/8-Indent crimp conforms with MIL C-22520
- Program memory for 14 contact variations
- Stripping and crimping dimensions adjusted by means of electric motor

Technical data

CA 100

Crimping range	0.25 ... 2.5 mm ² (using respective tool)
Electrical connection	220 V / 50 Hz
Drive	pneumatic
Compressed air connection	5 – 6 bar
Air consumption	approx. 2 NL to 5 bar per stroke
Crimping	trapezoidal with exchangeable tools depending on length and cross-section of the ferrule
Size W x D x H	410 x 450 x 270 + 140 mm
Weight	40 kg

Each of the above crimping machines can be set to cross-sections between 0.25 and 2.5 or 4 and 6 mm².

Ordering data

Type	Crimping range	Qty	Order No.
CA 100	0.25 ... 0.34 mm ²	1	9026130000
CA 100	0.50 ... 0.75 mm ²	1	9026000000
CA 100	1.00 ... 1.50 mm ²	1	9026020000
CA 100	2.5 mm ²	1	9026040000

Ferrules see chapter J

Detailed quotation available on request

Technical data

CA 4/8 Indent

Stripping range	0.14 ... 2.5 mm ²
Connection	220 V / 50 Hz / 115 VA
Drive	pneumatic
Compressed air connection	5 bar
Min. feed-in length	32 mm
Processing time	approx. 4 s
Size W x D x H	450 x 490 x 420 mm
Weight	45 kg
Options	special blade fixture (profile blade, V-radius blade), special fixing device for stranded wires, shortened insertion length, monitoring of entry, feed equipped with selection unit, control of crimping force, interface

Note on ordering

The machine is set up using sample contacts to suit the user's requirements. For this we need the name of the manufacturer, the type designation and the cross-sections of the contacts.

Detailed quotation available on request