

# 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 <sup>2</sup>
Single conductor, solid	0.5...2.5 mm <sup>2</sup>
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 999999 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 380 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 <sup>2</sup>
Single conductor, solid	0.08...16 mm <sup>2</sup>
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

0.14...6.0 mm<sup>2</sup>



- Quick and easy setting for the respective cross-section
- Stripping length: 3...20 mm
- Min. conductor length: 22 mm + stripping length

### Powerstripper 16.0

2.5...16.0 mm<sup>2</sup>



- Quick and easy setting for the respective cross-section
- Stripping length: 3...20 mm
- Min. conductor length: 22 mm + stripping length

### Technical data

Specification	
Stripping range	
Stripping length	
Conductor length, min.	
Pull-off length	
Pulse time	
Electrical connection	
Connection values	
Tool data	
Length / Width / Height	mm
Weight	kg
Note	

POWERSTRIPPER 6,0		
Stripping range	0.14 - 6.0 (~AWG26-10)	
Stripping length	3-20 mm	
Conductor length, min.	22 mm + stripping length	
Pull-off length	3-20 mm	
Pulse time	Approx. 0.5 sec.	
Electrical connection	220 V/ 50 Hz	
Connection values	46 VA	
Tool data		
Length / Width / Height	295 / 190 / 190	
Weight	8.8	
Note		

POWERSTRIPPER 16,0		
Stripping range	2.5 - 16 (~AWG 14-6)	
Stripping length	3-20 mm	
Conductor length, min.	22 mm + stripping length	
Pull-off length	3-20 mm	
Pulse time	Approx. 1.5 sec.	
Electrical connection	220 V/ 50 Hz	
Connection values	46 VA	
Tool data		
Length / Width / Height	295 / 190 / 230	
Weight	11	
Note		

### Ordering data

Version
Note

Type	Qty	Order No.
POWERSTRIPPER 6,0	1	9028510000

Type	Qty	Order No.
POWERSTRIPPER 16,0	1	9028480000

Note

Note

Note

**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**

0.5...2.5 mm<sup>2</sup>



**Powerstripper auto 16.0**

4,0...16,0 mm<sup>2</sup>



**Powerstripper Auto 2.5-20**

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

**Powerstripper Auto 16-20**

- 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 16-30**

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

**Technical data**

Specification	
Stripping range	
Stripping length	
Conductor length, min.	
Pull-off length	
Pulse time	
Electrical connection	
Connection values	
Tool data	
Length / Width / Height	mm
Weight	kg
<b>Note</b>	

POWERSTRIPPER ao 2,5-20	POWERSTRIPPER ao 2,5-30
0.5 - 2.5 mm <sup>2</sup> (~AWG20-14)	0.5 - 2.5mm <sup>2</sup> (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 sec.	Approx. 0.5 sec.
220 V/ 50 Hz	220 V/ 50 Hz
46 VA	46 VA
295 / 190 / 205	295 / 190 / 205
9	9
<b>Note</b>	

POWERSTRIPPER ao 16-20	POWERSTRIPPER ao 16-30
4 - 16 mm <sup>2</sup> (~AWG 12-6)	4 - 16 mm <sup>2</sup> (~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 sec.	Approx. 1.5 sec.
220 V/ 50 Hz	220 V/ 50 Hz
46 VA	46 VA
295 / 190 / 230	295 / 190 / 230
11	11
<b>Note</b>	

**Ordering data**

Version
<b>Note</b>

Type	Qty	Order No.
POWERSTRIPPER ao 2,5-20	1	9027270000
POWERSTRIPPER ao 2,5-30	1	9027280000
<b>Note</b>		

Type	Qty	Order No.
POWERSTRIPPER ao 16-20	1	9027290000
POWERSTRIPPER ao 16-30	1	9027300000
<b>Note</b>		

## Stripping and crimping machines

### Stripping and crimping machines

- For linked ferrules on roll, with plastic collars, up to 5000 pieces
- Stripping and crimping in one work step
- Easily adjustable to conductor cross-section range
- Change of tools not necessary

### Crimpfix 2.5 M

0.34/0.5...2.5 mm<sup>2</sup>



- Electric drive
- For smaller batches

### Crimpfix 2.5 M

• 0.34/0.5...2.5 mm<sup>2</sup>

- Processing 0.34 mm<sup>2</sup> is possible with simple conversion tool

### Crimpfix univ. / Crimpfix univ. K

0.34/0.5...2.5 mm<sup>2</sup>



- Electro/pneumatic drive
- For small and mid-sized batches

### Crimpfix universal

• 0.5...2.5 mm<sup>2</sup>

### Crimpfix universal K

- 0.34...1.0 mm<sup>2</sup>
- Processing diameter 0.34 mm<sup>2</sup>, possible by easy change of tool

## Technical data

Specification	
Stripping range	
Crimping length	
Length of wire-end ferrule	
Pulse time	
Cross-section range	
Electrical connection	
Compressed air connection	
Tool data	
Length / Width / Height	mm
Weight	kg
Note	

CRIMPFIX 2.5 M	
Stripping range	0.34/0.5-2.5
Crimping length	8 mm
Length of wire-end ferrule	12/14 mm
Pulse time	Approx. 1.5 sec.
Cross-section range	0.5...2.5 mm <sup>2</sup>
Electrical connection	220 V/ 50 Hz
Tool data	
Length / Width / Height	292 / 310 / 260
Weight	15
Note	

CRIMPFIX UNIVERSAL BD	CRIMPFIX UNIVERSAL K
Stripping range	0.34 - 1
Crimping length	8 mm
Length of wire-end ferrule	12/14 mm
Pulse time	Approx. 1 sec.
Cross-section range	0.34...1 mm <sup>2</sup>
Electrical connection	220 V/ 50 Hz
Compressed air connection	5 bar
Tool data	
Length / Width / Height	330 / 390 / 430
Weight	23
Note	

## Ordering data

Version
Note

Type	Qty	Order No.
CRIMPFIX 2.5 M	1	9205410000

Type	Qty	Order No.
CRIMPFIX UNIVERSAL BD	1	9028500000
CRIMPFIX UNIVERSAL K	1	9027320000

## Accessories

Type
Note

Type	Qty	Order No.
Crimpfix 2,5 M T0,34	1	9205420000
Wire-end ferrules, see chapter J		

### Stripping and crimping machines

- For loose-packed ferrules with plastic collars
- Conductor stripping and crimping in one work step
- Oscillating conveyor for grabbing free ferrules
- Quick adjustment to the required cross-section range
- Change of tools not necessary, therefore efficient and time-saving processing

### Crimpfix L / Crimpfix LS

0.5...2.5 mm<sup>2</sup>



- Electro/pneumatic drive
- Full electronic control
- For medium-sized batches

#### Crimpfix LS

- Changeover to custom sizes is possible.

### Crimpfix LZ

2 x 0.5...2 x 1.5 mm<sup>2</sup>



#### For twin wire-end ferrules

- Electro/pneumatic drive
- Complete electronic control
- For medium-sized batches

### Technical data

Specification	
Stripping range	
Crimping length	
Length of wire-end ferrule	
Pulse time	
Cross-section range	
Electrical connection	
Compressed air connection	
Tool data	
Length / Width / Height	mm
Weight	kg
Note	

CRIMPFIX L	CRIMPFIX LS
0.5 - 2.5 mm <sup>2</sup>	0.5 - 2.5 mm <sup>2</sup>
8 mm	6/8/10 mm
14 mm	12/14/16 mm
Approx. 1 sec.	Approx. 1 sec.
0.5...2.5 mm <sup>2</sup>	0.5...2.5 mm <sup>2</sup>
220 V/ 50 Hz	220 V/ 50 Hz
5 bar	5 bar
Tool data	
330 / 390 / 460	330 / 390 / 460
31	31
Special sizes, ø D2 available on request	

CRIMPFIX LZ	
2 x 0.5 - 2 x 1.5mm <sup>2</sup>	
8 mm	
14 mm	
Approx. 1 sec.	
0.5...1.5 mm <sup>2</sup>	
220 V/ 50 Hz	
5 bar	
Tool data	
330 / 390 / 460	
31	

### Ordering data

Version	
Note	

Type	Qty	Order No.
CRIMPFIX L	1	9028530000
CRIMPFIX LS	1	9028540000
Note		

Type	Qty	Order No.
CRIMPFIX LZ	1	9027310000
Note		

## Stripping and crimping machines

## CA 100

0.14...10 mm<sup>2</sup>

The CA 100 is an electro-pneumatic-driven automatic stripper and crimper for time-saving and efficient processing of loose-packed wire-end 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 0.14...10.0 mm<sup>2</sup>
- Processes ferrules of various length
- Rapid and easy conversion
- Vibration feeder takes loose ferrules

## CA 4/8 Indent

0.14...4 mm<sup>2</sup>

The CA 4/8 Indent is an electro-pneumatic-driven automatic stripper and crimper for processing loose-packed, turned male and female contacts. The contacts are fed automatically via an oscillating conveyor set-up.

Conductors and contacts in the 0.14 - 4.0 mm range (AWG 26-14) can be crimped normally with a 4/8 indent crimp shape, in compliance with M1 122520-01. The settings for stripping and crimp depth are motor-driven. The values can be saved in 50 different programs. The keyboard is used for configuration and programming. Important data, functions and errors are shown on the LCD display. 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...4.0 mm<sup>2</sup>
- 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 50 contact variations
- Stripping and crimping dimensions adjusted by means of electric motor
- The CA 4/8 Indent S features an oscillating conveyor with selective feed. It uses sensors and actuators to ensure that the contacts are correctly positioned for processing.

## Technical data

	CA 100/2,5	CA 100/10
Crimping range	0.14 ... 2.5 mm <sup>2</sup> (using respective tool)	4...10 mm <sup>2</sup>
Crimping lengths	6 ...12 mm	6...18 mm
Connection	220 V / 50 Hz	220 V / 50 Hz
Drive	pneumatic	pneumatic
Compressed air connection	5 bar	5 bar
Processing time	approx. 2.5 s	approx. 2.5 s
Crimping	trapezoidal with exchangeable tools depending on length and cross-section of the ferrule	
Size W x D x H	530 x 400 x 460	530 x 400 x 460
Weight	40 kg	40 kg
Options	Quadro-crimp tool: for a perfect rectangular four-sided crimp	

The CA 100 can be converted for conductor cross-sections in the ranges of 0.14...2.5 or 4...10 mm<sup>2</sup>.

## Note on ordering

In order to precisely determine the required conversion tool, you will need the exact specifications for both the wire-end ferrules being processed and the conductors being processed.

**Ferrules see chapter J**

Detailed quotation available on request

## Technical data

	CA 4/8 Indent	CA 4/8 Indent S
Stripping range	0.14 ... 2,5 mm <sup>2</sup>	0.25 ... 4 mm <sup>2</sup>
Connection	220 V / 50 Hz / 115 VA	220 V / 50 Hz /115 VA
Drive	pneumatic	pneumatic
Compressed air connection	5 bar	5 bar
Processing time	approx. 2.5 s	approx. 2.5 s
Size W x D x H	450 x 490 x 420	530 x 500 x 600
Weight	40 kg	54 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