

# 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 <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<br>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 mm                                                                 |
| 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
- Change of tools not necessary
- Electric drive
- For small and mid-sized batches

Machines are designed to process wires according to DIN VDE 0295/5, DIN VDE 0281/102 and DIN VDE 0281/103. Processing of other wire types is available on request.

### 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        |  |
|--------------------------|--|
| 0.14 - 6.0 (~AWG26-10)   |  |
| 3-20 mm                  |  |
| 22 mm + stripping length |  |
| 3-20 mm                  |  |
| Approx. 0.5 sec.         |  |
| 220 V/ 50 Hz             |  |
| 46 VA                    |  |
|                          |  |
| 295 / 190 / 190          |  |
| 8.8                      |  |
|                          |  |

| POWERSTRIPPER 16,0       |  |
|--------------------------|--|
| 2.5 - 16 (~AWG 14-6)     |  |
| 3-20 mm                  |  |
| 22 mm + stripping length |  |
| 3-20 mm                  |  |
| Approx. 1.5 sec.         |  |
| 220 V/ 50 Hz             |  |
| 46 VA                    |  |
|                          |  |
| 295 / 190 / 230          |  |
| 11                       |  |
|                          |  |

### Ordering data

| Version |
|---------|
|         |
| Note    |
|         |

| Type              | Qty | Order No.  |
|-------------------|-----|------------|
| POWERSTRIPPER 6,0 | 1   | 9028510000 |

| Type               | Qty | Order No.  |
|--------------------|-----|------------|
| POWERSTRIPPER 16,0 | 1   | 9028480000 |

| Note |
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| Note |
|------|
|      |

## Stripping machines

- Stripping of flexible conductors according to DIN VDE 0295, class 5
- Partial stripping, insulation remains at wire end
- An integrated probing mechanism establishes the wire cross-section size and then defines the proper cutting depth
- Electric drive
- No need to change tools
- For small and mid-sized batches
- Automatic adjustment on conductor cross-section

Machines are designed to process wires according to DIN VDE 0295/5, DIN VDE 0281/102 and DIN VDE 0281/103. Processing of other wire types is available on request.

## Powerstripper auto 2.5

0.5...2.5 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 2.5-30

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

## Powerstripper auto 16.0

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



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

| POWERSTRIPPER ao 2,5-20               | POWERSTRIPPER ao 2,5-30              |
|---------------------------------------|--------------------------------------|
| 0.5 - 2.5 mm <sup>2</sup> (~AWG20-14) | 0.5 - 2.5 mm <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                                    |

| 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                                 |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                    | Qty | Order No.  |
|-------------------------|-----|------------|
| POWERSTRIPPER ao 2,5-20 | 1   | 9027270000 |
| POWERSTRIPPER ao 2,5-30 | 1   | 9027280000 |

| Type                   | Qty | Order No.  |
|------------------------|-----|------------|
| POWERSTRIPPER ao 16-20 | 1   | 9027290000 |
| POWERSTRIPPER ao 16-30 | 1   | 9027300000 |

## 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

Machines are designed to process wires according to DIN VDE 0295/5, DIN VDE 0281/102 and DIN VDE 0281/103. Processing of other wire types is available on request.

### 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               |  |
|------------------------------|--|
| 0.34/0.5-2.5 mm <sup>2</sup> |  |
| 8 mm                         |  |
| 12/14 mm                     |  |
| Approx. 1.5 sec.             |  |
| 0.5...2.5 mm <sup>2</sup>    |  |
| 220 V/ 50 Hz                 |  |
|                              |  |
| 292 / 310 / 260              |  |
| 15                           |  |
|                              |  |

| CRIMPFIX UNIVERSAL BD     | CRIMPFIX UNIVERSAL K       |
|---------------------------|----------------------------|
| 0.5 - 2.5 mm <sup>2</sup> | 0.34 - 1.0 mm <sup>2</sup> |
| 8 mm                      | 8 mm                       |
| 12/14 mm                  | 12/14 mm                   |
| Approx. 1 sec.            | Approx. 1 sec.             |
| 0.5...2.5 mm <sup>2</sup> | 0.34...1 mm <sup>2</sup>   |
| 220 V/ 50 Hz              | 220 V/ 50 Hz               |
| 5 bar                     | 5 bar                      |
|                           |                            |
| 330 / 390 / 430           | 330 / 390 / 430            |
| 23                        | 23                         |
|                           |                            |

### 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

| Note |
|------|

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| Crimpfix 2.5 M T0.34                              | 1   | 9205420000 |
| Crimpfix 2.5 M T0 5-2.5                           | 1   | 1137200000 |
| Additional accessories can be found in 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

Machines are designed to process wires according to DIN VDE 0295/5, DIN VDE 0281/102 and DIN VDE 0281/103. Processing of other wire types is available on request.

## 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                     |
| 330 / 390 / 460                          | 330 / 390 / 460           |
| 31                                       | 31                        |
| Special sizes, ø D2 available on request |                           |

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

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| CRIMPFIX L                                        | 1   | 9028530000 |
| CRIMPFIX LS                                       | 1   | 9028540000 |
| Additional accessories can be found in Chapter J. |     |            |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| CRIMPFIX LZ                                       | 1   | 9027310000 |
| Additional accessories can be found in Chapter J. |     |            |



## 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 MIL C-22520/1-01. 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-22520/1-01
- 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><br>(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

Additional accessories can be found in Chapter J.

## 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

Additional accessories can be found in our Heavy-Duty Connectors Catalogue.