

Rittal – The System.

Faster – better – everywhere.

► Optimise wire processing

A comprehensive range of products for the workshop



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

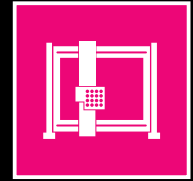


FRIEDHELM LOH GROUP

Forward-thinking optimisation

Step-by-step, make your entire enclosure manufacturing process more efficient.

Rittal supports all manufacturing stages with a comprehensive portfolio of solutions covering everything from manual tools to fully automated plant. A clear boost for your competitiveness.



Rittal Automation Systems



Machining

Fully automated milling or laser machining, plus machining of cable ducts



Assembly

Automatic manufacturing and component mounting of terminal strips



Wire processing

Professional, efficient solutions for wire machining and processing.



Wiring

Solutions for the fully automated wiring of mounting plates



Tools

High-quality hand tools for professional use in industry and trade.



Handling

Ergonomic, efficient handling systems for transport and lifting operations

Note:

This flyer only shows a few selected highlights from our product range. The complete Rittal Automation Systems brochure, "We automate panel building", is available for downloading at www.rittal.com/ras

Wire processing in enclosure manufacturing

Length-cutting machine C8+

The C8+ length-cutting machine is sure to impress with its simple, reliable handling. Wires with up to 8 mm or 10 mm² diameter may be cut to an individually set length, ensuring more efficient operating processes. It also guarantees excellent repetition accuracy thanks to the precise servo DC drive. Cutting jobs can also be managed, documented and transmitted via a USB interface from the PC or CAE data interface (EPLAN Pro Panel). In this way, the C8+ length-cutting machine additionally supports the process of labelling cables and wiring by displaying the source/target code.

Technical specifications

- Jobs are programmed and executed with an integrated operating terminal
- Controllable pressing force of the feed rollers
- Up to 2,000 cutting jobs may be stored
- Pause function
- Interface:
 - CAE data (EPLAN Pro Panel)
 - USB 1.1, USB 2.0
- Strand, fine-wire: 0.08 – 10 mm²
- Strand, single-wire: 0.08 – 2.5 mm²
- For wire lengths: 1 – 99999 mm
- Feed rate: 1.5 m/s

Supply includes

- Length-cutting machine C8+
- Software connection, CAE data on CD
- Mains connection cable



Parameters	
Drive	Electric motor
Power consumption	240 VA
Voltage	100 – 240 V
Frequency	50/60 Hz
Dimensions (W x H x D)	380 x 470 x 360 mm
Weight	20 kg

Item name	Model No.
Length-cutting machine C8+	4050.455
Wire dispenser	4050.463

Accessories	
Spare blade, titanium	4050.465



- Spare blade, titanium



- Dispensing device for the infeed of conductors. Suitable for conductors on cable coils or from boxes.

Wire processing in enclosure manufacturing

Stripping machine S22

The stripping machine S22 is electrically driven. It ensures accurate, careful stripping of the insulation from your wires. The draw-off and stripping length is set with linear control. The stripping machine also features a pre-integrated spare blade inside the enclosure. Other benefits include the running total counter and daily counter, which are easily read from the touch display.

Technical specifications

- For wires with cross-sections from 0.05 – 6 mm²
- Wire stripping length from 3 – 20 mm
- Insertion length 22 mm

Parameters	
Drive	Electric motor
Power consumption	70 VA
Voltage	100 – 240 V
Frequency	50/60 Hz
Dimensions (W x H x D)	190 x 190 x 295 mm
Weight	7.5 kg

Item name	Model No.
Stripping machine S22	4050.451

Accessories	
Insulation stripping blade, titanium	4050.464

Supply includes

- Stripping machine S22
- Mains connection cable



Manual tools

Wire assembly in controller manufacturing with tools and accessories from Rittal:
High-quality hand tools for professional use in industry and trade.

Features

- Ergonomically styled handles for fatigue-free, non-slip working
- Special tool steel ensures a long service life and optimum protection from corrosion
- Minimal effort required with large conductor cross-sections
- And much more besides



Wire processing in enclosure manufacturing

Crimping machine R8 E

Electrically powered wire stripping and crimping machine for taped wire end ferrules on a reel. The R8 E crimping machine supports the fast, meticulous processing of insulated wire end ferrules and standard PVC cables in cross-sections ranging from 0.5 – 2.5 mm² (AWG 20 – 14) with a crimping length of 8 mm. For flexible use in the workshop, all you need is a power connection.

Technical specifications

- Supports machining of conductor cross-sections from 0.5 – 2.5 mm²
- Electrically powered

Supply includes

- Crimping machine R8 E
- Mains connection cable

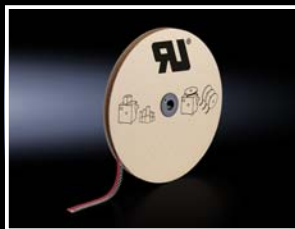
Parameters	
Drive	Electric motor
Power consumption	100 VA
Voltage	100 – 240 V
Frequency	50/60 Hz
Dimensions (W x H x D)	288 x 345 x 230 mm
Weight	16 kg

Item name	Model No.
Crimping machine R8 E	4050.454



Accessories for manual and semi-automatic cable assembly

Use our range of accessories and consumables, and reap the benefits.



Wire end ferrules

- Wire end ferrules with plastic collar, certified to CSA-US and UL.
- Suitable for manual wire processing and Rittal crimping machines
- Wire end ferrules to DIN and Rittal colour code
- Heat-resistant to 105 °C
- Wire end ferrules for all standard cables and special ferrules (AWG)

Rittal Automation Systems

Our expertise can help you to optimise your processes, from manual through to automated.

Rittal Automation Systems – Full information may be found at: www.rittal.com/ras

Crimping machines L8 and RC

It is worthwhile investing in a crimping machine from just 90,000 crimping operations (equivalent to around 80 – 90 enclosures per annum).

Electro-pneumatically driven wire-stripping and crimping machine for safe, fast processing of insulated wire end ferrules. The particular value-added of our electro-pneumatic crimping machines is their fully automated detection of the wire cross-section and processing of the wire end ferrules, with no tool changes required. Linear adjustment of the blades and the high force of the pneumatically driven crimping unit means that all standard cables as well as special ferrules (AWG) in the application range from 0.5 to 2.5 mm² (AWG 20 – 14) may be processed with a crimping length of 8 mm. The RC insulation stripping and crimping machine can additionally be used for processing a crimping length of 10 mm. The integral 5-way holder allows the RC crimping machine to process five different cross-sections without retooling. This eliminates downtime and the associated set-up costs. The integrated daily unit counter provides a handy overview of your project quantities at all times.



Alternatively:
R8 crimping machine (Model No. 4050.453) for processing wire end ferrules on a reel.



Technical specifications, L8 and RC

- Machining of conductor cross-sections from 0.5 – 2.5 mm²
- Automatic detection of cross-sections
- Handling of special wires supported
- UL-certified crimping with wire end ferrules from Rittal
- User-friendly menu prompting via touch display
- Insertion length 27 mm (1.06 in.). Cycle time < 2 sec.

Parameters for crimping machine L8

Drive	Electro-pneumatic
Power consumption	110 VA
Voltage	100 – 240 V
Frequency	50/60 Hz
Operating pressure	5.5 bar
Dimensions (W x H x D)	390 x 330 x 460 mm
Weight	31 kg

Item name	Model No.
Crimping machine L8	4050.452

Accessories

Oscillating conveyor 0.5 – 1.5 mm ²	4050.467
Oscillating conveyor 1.5 – 2.5 mm ²	4050.468
Insulation stripping blade kit	4050.466

Supply includes

- Crimping machine L8
- Oscillating conveyor (2 pcs.)
- Mains connection cable

Supply includes

- Crimping machine RC
- Mains connection cable

Parameters for crimping machine RC

Drive	Electro-pneumatic
Power consumption	16 VA
Voltage	100 – 240 V
Frequency	50/60 Hz
Operating pressure	5.5 bar
Dimensions (W x H x D)	335 x 565 x 485 mm
Weight	22 kg
Frame for max.	23,000 wire end ferrules

Item name	Model No.
Crimping machine RC	4050.456

Accessories

Insulation stripping blade kit, titanium	4050.466
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Forward-looking process optimisation

Cutting to length, stripping and crimping – the faster and more accurately these routine tasks are carried out, the more efficient you become. For this reason, more and more workshops are putting their faith in Rittal wire processing centres, which combine accelerated processes with excellent repetition accuracy.

▶ Length-cutting machine C8+

The C8+ length-cutting machine is sure to impress with its simple, reliable handling. Wires are cut to an individually set length (either manually, on the PC or via the CAE data interface), ensuring more efficient operating processes.

▶ Stripping and crimping machine L8

The electro-pneumatically driven wire-stripping and crimping machine L8 ensures safe, fast processing of insulated wire end ferrules, with no tool changes required. Cross-sections are detected automatically. The processing of special wires is also supported.

▶ Stripping machine S22

The stripping machine S22 is electrically driven. It ensures accurate, careful stripping of the insulation from your wires.

▶ Stripping and crimping machine R8 E

The electrically driven stripping and crimping machine R8 E for taped wire end ferrules is suitable for flexible use in the workshop. Simple handling, with easy replacement of consumables and straightforward operation.

▶ Stripping and crimping machine RC

The electro-pneumatically driven wire-stripping and crimping machine RC processes insulated wire end ferrules on a reel. Fitting a 5-way holder for the wire end ferrule magazines will eliminate the need to change the consumables.



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- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

You can find the contact details of all Rittal companies throughout the world here.



www.rittal.com/contact

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