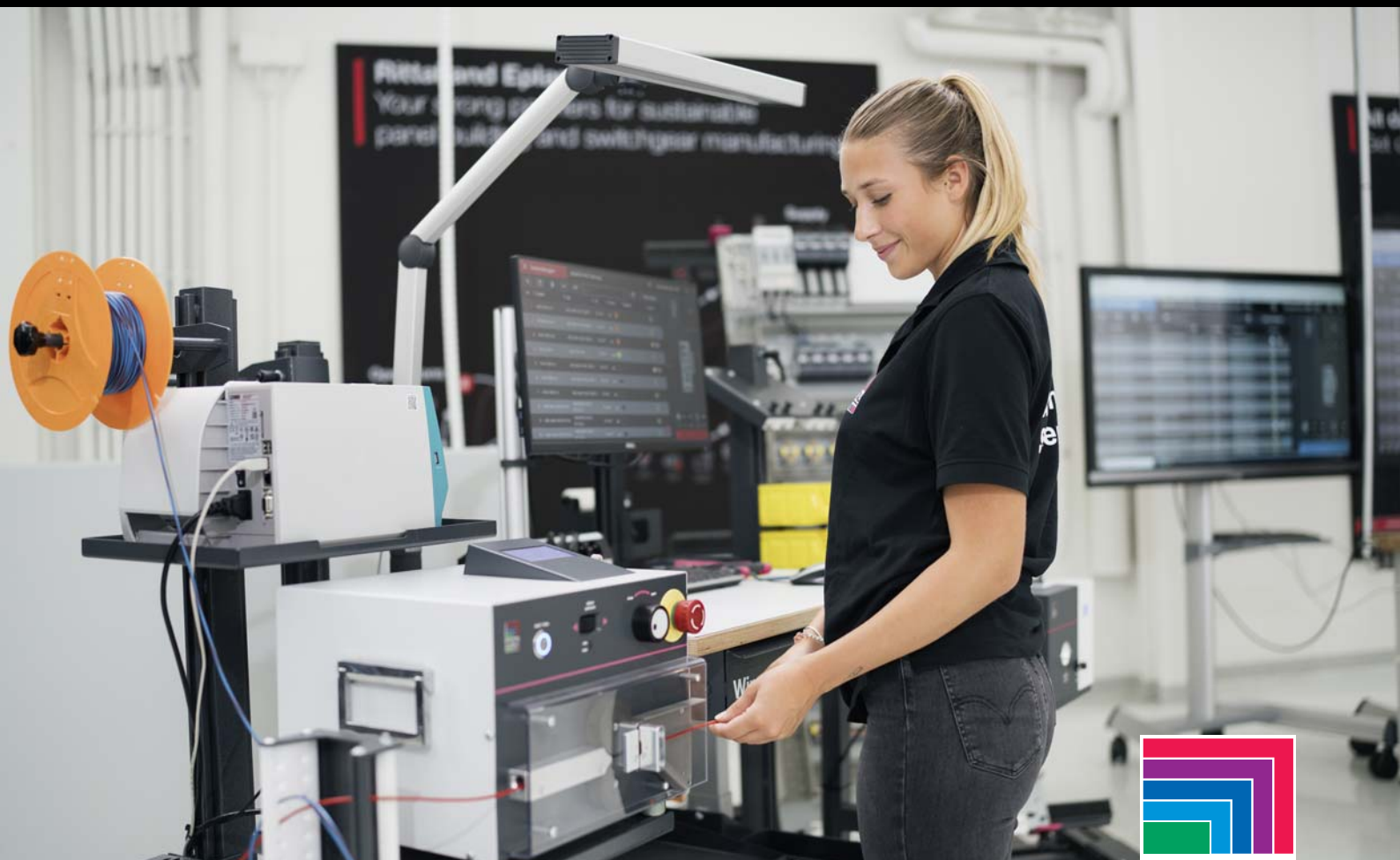


**Rittal – The System.**

Faster – better – everywhere.

# Optimise your wire processing

Future-proofed panel building  
and switchgear manufacturing



ENCLOSURES

POWER DISTRIBUTION

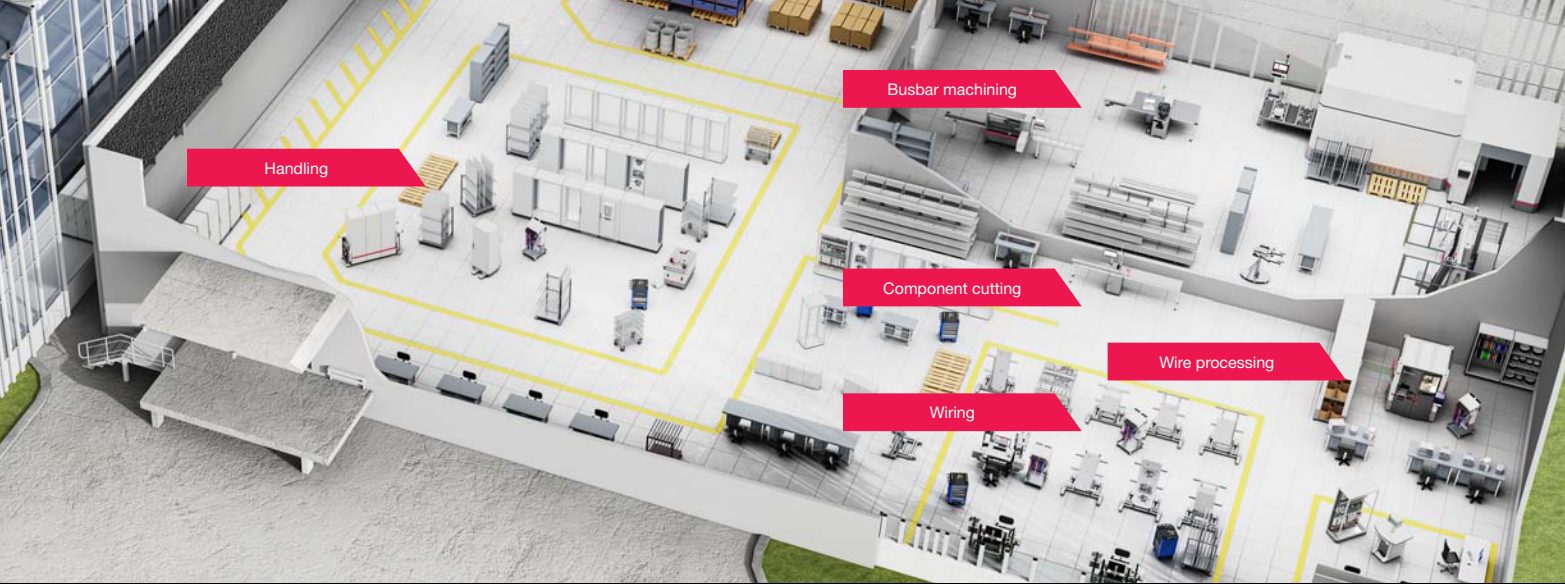
CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP





# Helping you to efficiently and safely forge ahead step by step

The solutions offered by Rittal Automation Systems encompass a whole host of distinct and individual process stages as well as the entire manufacturing chain – from manual tools to fully automated added-value mechanical engineering equipment.

- **Our machines and equipment** for the mechanical processing of metalwork operate quickly, accurately and highly efficiently.
- **Thanks to our automated wire processing solutions**, we deliver enormous efficiency gains.
- **Our ergonomic handling tools** optimise process steps in manual activities.
- **We provide customer-specific advice** and bespoke solutions for each step in your automation journey.



Punching



Milling



Laser machining



Busbar machining



Component cutting



Component mounting



Wire processing



Wiring



Handling



Hand tools



## Note:

More information on the entire product range of Rittal Automation Systems may be found at [www.rittal.com/ras](http://www.rittal.com/ras)

# Forward-looking process optimisation

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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 wire processing centres from Rittal Automation Systems for accelerated processing and excellent repeat accuracy and consistency.

## **C8+ length-cutting machine**

The C8+ automatic length-cutting machine stands out with its impressive, simple, reliable handling. Wires are cut to an individually set length (either manually or via the PC), ensuring more efficient operating processes.

## **L8 stripping and crimping machine**

The L8 electro-pneumatically driven wire-stripping and crimping machine ensures safe, fast processing of insulated wire end ferrules. No tool changes are required. It is also possible to strip and crimp special wires.

## **S22 stripping machine**

The S22 automatic stripper is electrically powered for accurate, careful stripping of the insulation from your wires.

## **R8 E stripping and crimping machine**

The R8 E electrically driven stripping and crimping machine for taped wire end ferrules can be flexibly used in the workshop. Simple handling, with easy replacement of consumables and straightforward operation.

## **RC stripping and crimping machine**

The RC electro-pneumatically driven wire-stripping and crimping machine processes insulated wire end ferrules on a reel. Fitting a 5-way magazine eliminates the need to change the wire end ferrules.



# C8+ length-cutting machine

The C8+ length-cutting machine stands out with its impressive, simple, reliable handling. Wires with up to 8 mm or 10 mm<sup>2</sup> diameter may be cut to a specifically set length, ensuring more efficient operating processes. It also guarantees excellent consistent repetition accuracy thanks to the precise servo DC drive. Length cutting jobs can also be managed, documented and transmitted via a USB interface from the PC or an interface for importing data and lists. In this way, the C8+ length-cutting machine also controls the cable labelling and wiring process by displaying the source/target code.

## Technical specifications

- Jobs are programmed and completed using an integrated user terminal
- Adjustable pressure of the feed rollers
- Up to 2,000 cutting jobs can be stored
- Pause function
- Interface:
  - USB 1.1, USB 2.0
- Fine-wire strand : 0.08 – 10 mm<sup>2</sup>
- Single-wire strand : 0.08 – 2.5 mm<sup>2</sup>
- For wire lengths : 1 – 99999 mm
- Feed rate: 1.5 m/s

Parameter	
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.
C8+ length cutting machine	4050.455
Wire dispenser	4050.463

Accessories	
Spare blade, titanium	4050.465

## Scope of supply

- C8+ automatic length cutting machine
- Software connection for importing data and lists on CD
- Software connection for AS manager on USB flash drive
- Mains connection cable



Spare blade, titanium



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

# S22 stripping machine

The S22 semi-automatic wire stripping machine is electrically powered for accurate and precise stripping of the insulation from wires. The draw-off and stripping length can be easily adjusted. The stripping machine also includes a spare blade in the housing. Other benefits include the overall running piece counter as well as the daily piece counter, which are easily read from a touch display.

## Technical specifications

- For wires with cross-sections from 0.05 – 6 mm<sup>2</sup>
- Wire stripping length from 3 – 20 mm
- Insertion length 22 mm

Parameter	
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.
S22 stripping machine	4050.451
Accessories	
Insulation stripping blade, titanium	4050.464

## Scope of supply

- S22 stripping machine
- Mains connection cable



# Hand tools

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

## Features

- Ergonomically styled handles for effortless, non-slip working
- Special steel ensures a long service life and optimum protection from corrosion
- Minimal effort required for large conductor cross-sections



We reserve the right to make technical modifications

# R8 E crimping machine

Electrically powered wire stripping and crimping machine for taped wire end ferrules on a reel. The R8 E crimping machine is suitable for fast, careful processing of insulated wire end ferrules and standard PVC cables in cross-sections ranging from 0.5 to 2.5 mm<sup>2</sup> (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

- Conductor cross-sections from 0.5 – 2.5 mm<sup>2</sup> can be processed
- Electrically powered

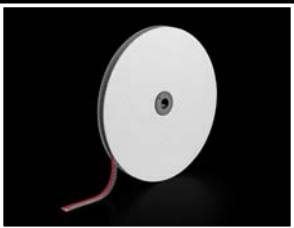
## Scope of supply

- R8 E crimping machine
- Mains connection cable

Parameter	
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.
R8 E crimping machine	4050.454



# Accessories for manual, semi-automatic and fully automatic wire processing



## Wire end ferrules

- Wire end ferrules with plastic collar, certified to CSA-US and UL 486F
- Suitable for manual and automated wire processing
- Wire end ferrules to DIN, Rittal and KDS colour code
- Heat-resistant to 105 °C
- Wire end ferrules for all standard cables to DIN 46228-4 and special ferrules (AWG) for multi-standard cables

## Rittal Automation Systems

Take full advantage of our technical expertise and knowledge to help you to optimise your processes, from manual to automated.

Rittal Automation Systems –  
Full information may be found at:  
[www.rittal.com/ras](http://www.rittal.com/ras)

# L8 and RC crimping machines

Investing in an automatic crimping machine is completely worthwhile and viable from as few as 90,000 crimps (equivalent to approx. 80 – 90 enclosures per year).

Electro-pneumatically driven wire-stripping and crimping machine for safe, accurate and fast processing of insulated wire end ferrules. No tool changes are required. Thanks to the variable adjustment of the blades and the high force of the pneumatically driven crimping unit, all standard wires and special ferrules (AWG) ranging between 0.5 and 2.5 mm<sup>2</sup> (AWG 20 – 14) can be processed with a crimping length of 8 mm. The RC stripping and crimping machine can additionally be used for processing a crimping length of 10 mm. The integrated 5-way magazine allows the RC crimping machine to process five different cross-sections without retooling. This eliminates downtime and associated set-up costs. The integrated daily piece counter provides a perfect overview of your project quantities at all times.



## Technical specifications: L8 and RC

- Conductor cross-sections from 0.5 – 2.5 mm<sup>2</sup> can be processed
- Processing of special wires possible
- UL-certified crimping with wire end ferrules from Rittal
- User-friendly menu navigation via touch display
- Insertion length 27 mm (1.06 in.)

Parameters for L8 crimping machine	
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.
L8 crimping machine	4050.452

Accessories	
Vibratory bowl feeder 0.5 – 1.5 mm <sup>2</sup>	4050.467
Vibratory bowl feeder 1.5 – 2.5 mm <sup>2</sup>	4050.468
Insulation stripping blade kit	4050.466



## Scope of supply

- L8 crimping machine
- RC crimping machine
- Vibratory bowl feeder (2 pcs.)
- Mains connection cable
- Mains connection cable

Parameters for RC crimping machine	
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.
RC crimping machine	4050.456

Accessories	
Insulation stripping blade kit, titanium	4050.466

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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](http://www.rittal.com/contact)

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