Rittal - The System.

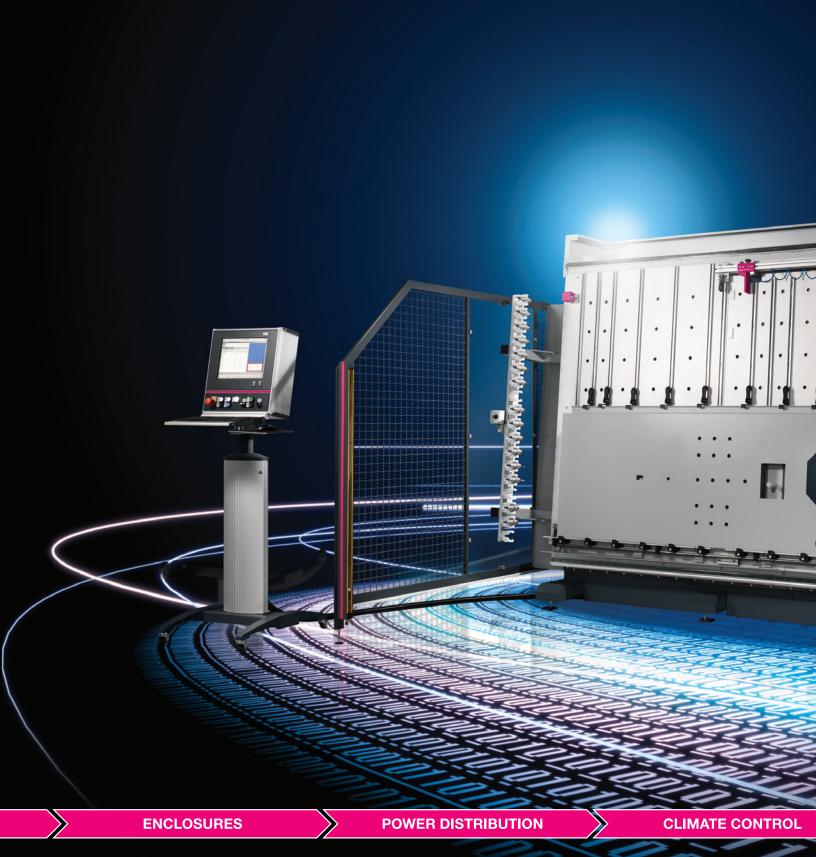
Faster – better – everywhere.

Rittal Automation Systems We automate wire processing

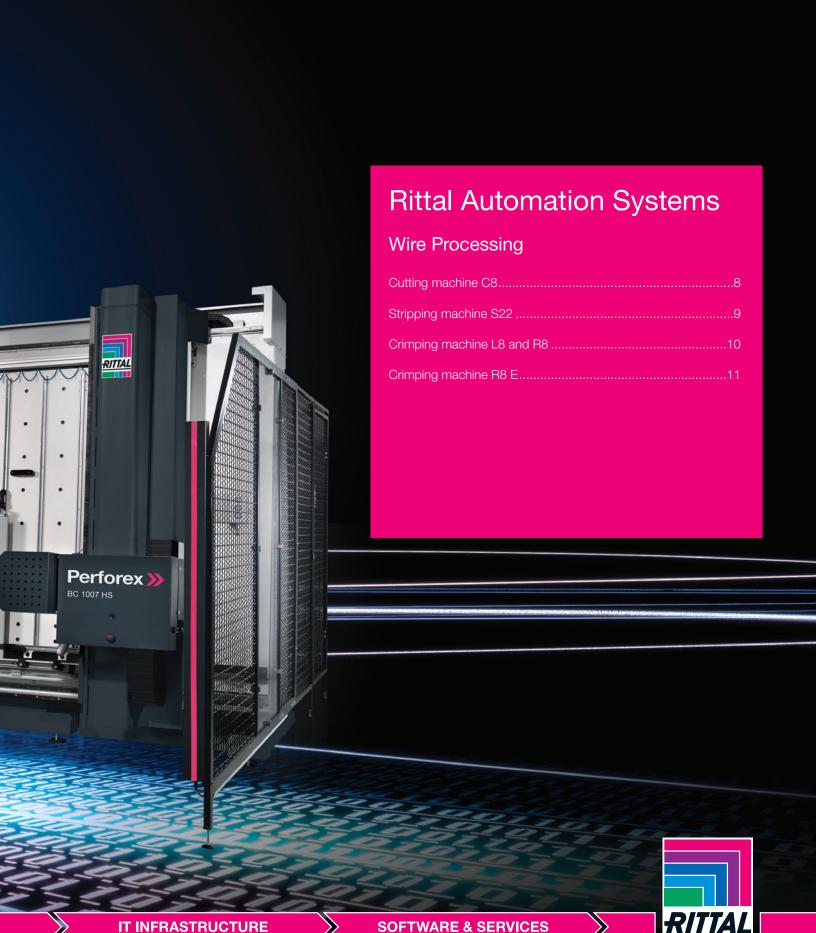


Rittal – The System.

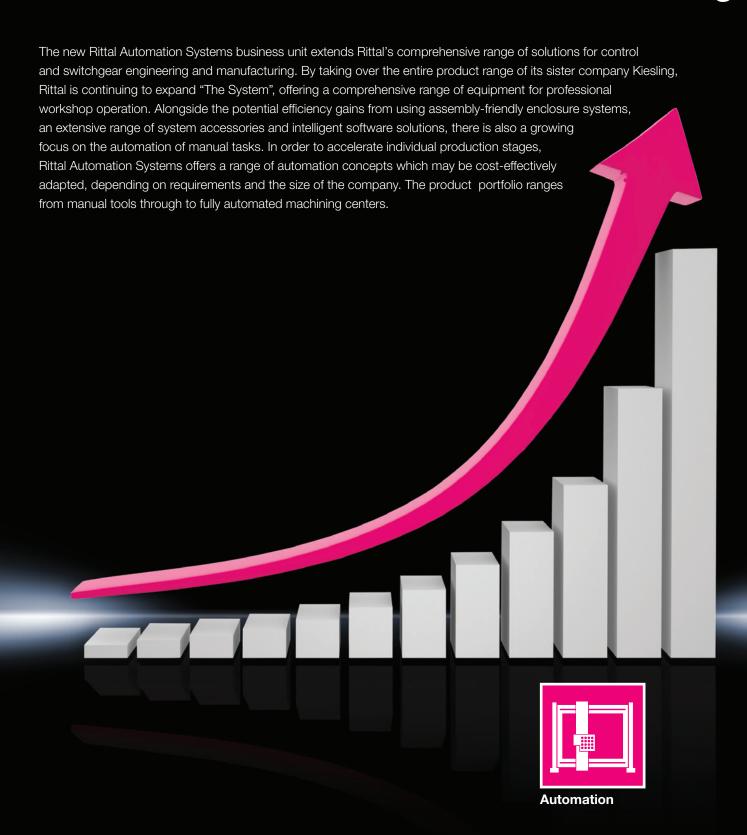
Faster – better – everywhere.



2



Rittal automates enclosure manufacturing



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

Optimization of the complete workflow in enclosure manufacturing

The Rittal Automation Systems business unit with its portfolio of services supports all process stages in control and switchgear engineering. From manual tools through to fully automated systems, find your customized solutions for process-optimized workshop operations.

- Machining of enclosures and components
- Assembly of terminal blocks on DIN rails
- Assembly of wires and cables
- Automated wiring solutions
- Handling systems and tools



Machining:

Discover our solutions for the fully automated, fast, precise and reliable milling or laser machining of enclosures and cases, plus optimized cutting and kitting of cable ducts and DIN rails.

- Perforex BC Milling, thread tapping, drilling
- Perforex LC Laser cutting of stainless steel and powder-coated sheet steel enclosures
- Secarex For cutting cable ducts and DIN rails to length
- Copper busbar processing CW 120 Bending, punching, cutting



IT INFRASTRUCTURE

SOFTWARE & SERVICES

Optimization of the complete workflow in enclosure manufacturing







Tools



Handling

Assembly:

Our component mounting products are used for the automated manufacturing of terminal strips in control and switchgear engineering.

Athex – Terminal assembly and labeling

Wire processing:

Take advantage of our professional, sensible solutions in wire processing.

- Cutting machine
- Stripping machinesStripping/crimping machines

Tools:

The right tool for every application.

- Screwdrivers
- Pliers
- Insulation stripping and crimping tools
- Hole punching tools

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

6



Wiring



Tools



Handling

Wiring

The efficient interplay between engineering, handling, assembly and hand tools makes your wiring process swift, ergonomic and safe.

To complete the process chain, our automation team are dedicated to the development of pioneering wiring solutions through to full automation.

Handling:

We support you with ergonomic, efficient handling systems for a wide range of transport and lifting operations in the workshop.

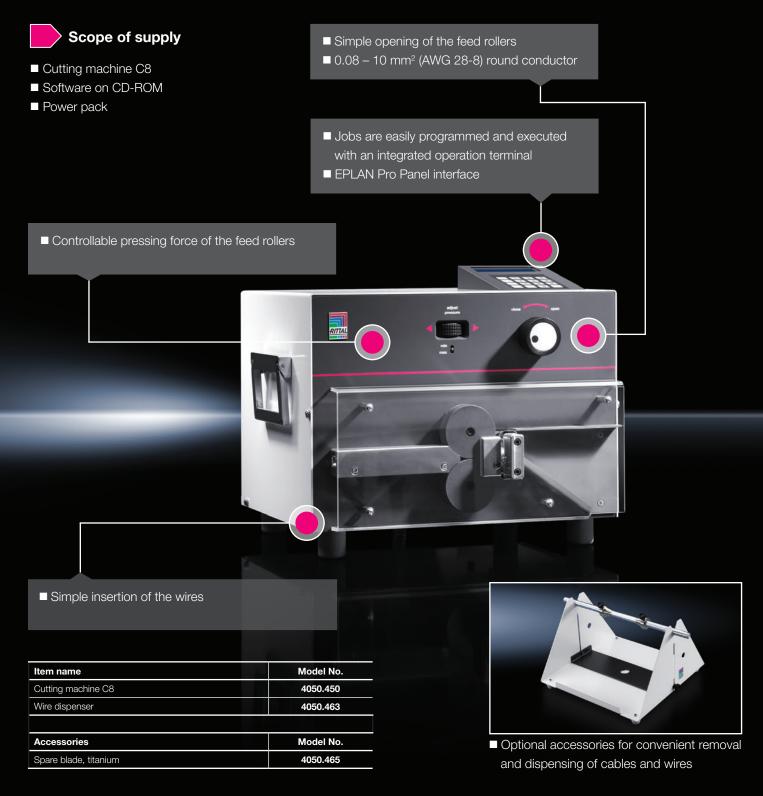
- LUT 1000 Workpiece stillage and transport
- Assembly frames Ergonomic assembly and wiring
- Functional trolley Practical solution for transport of parts and a working table in the factory

IT INFRASTRUCTURE

SOFTWARE & SERVICES

Cutting machine C8

The C8 length-cutting machine is sure to impress with its simple, reliable handling. Wires with up to 8 mm² (AWG 28) or 10 mm² (AWG 8) diameter may be cut to an individually set length, ensuring more efficient operating processes. Additionally, excellent repetition accuracy is guaranteed due to the precise servo DC drive. Cutting jobs from the cutting machine can also be managed, documented and transmitted with a PC via a USB interface.



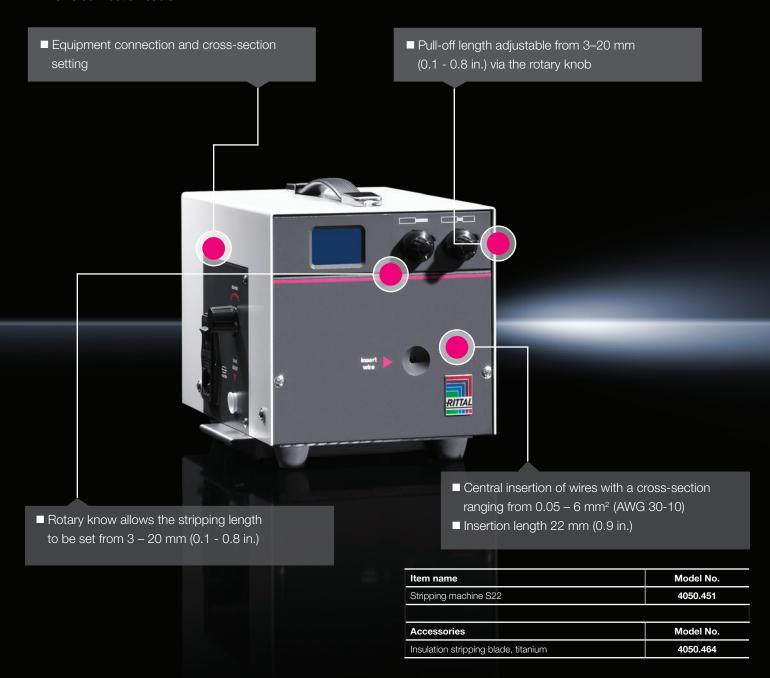
Stripping machine S22

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. You benefit from the running total counter and daily counter, which are easily read from the touch display.



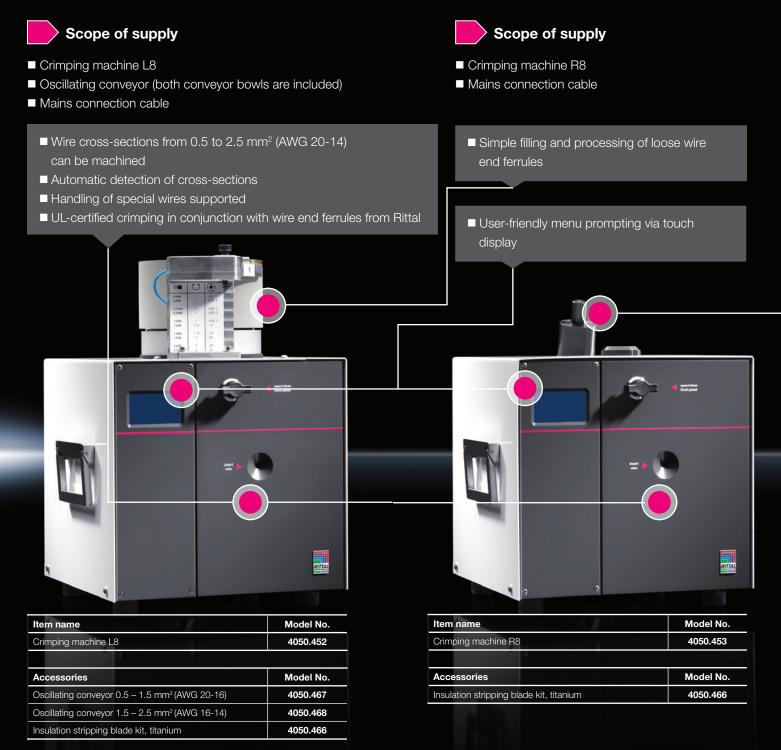
Scope of supply

- Stripping machine S22
- Mains connection cable



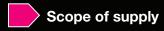
Crimping machine L8 and R8

Electropneumatically driven wire stripping and crimping machine for safe, fast processing of insulated wire end ferrules. The particular value-added feature of the electropneumatic crimping machines is its fully automated detection of the wire cross-section and processing of the wire end ferrules, with no tool changes required. Due to linear adjustment of the blades and the high force of the pneumatically driven crimping unit, 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 (0.3 in.). The integrated daily unit counter ensures you have an overview of your project quantities at all times.



Crimping machine R8 E

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 2 (AWG 20-14) with a crimping length of 8 mm. For flexible use in the workshop, all you need is a power connection



- Crimping machine R8 E
- Mains connection cable
 - Locator for taped wire end ferrules on a reel

Note:

- All units for cable assembly support multiple voltages from 100 – 240 V, 50/60 Hz
- Wire end ferrules for crimping machines
 (Standard crimping form: Trapezoid others available on request)





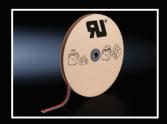
Model No.
4050.454

- Easy replacement of consumables
- Simple adjustment
- Flexible use in the workshop

Wire end ferrules

for Wiring Machines L8, R8 and R8 E





Wire end ferrules

According to DIN color code

With plastic collar.

Technical specifications

- Heat resistant to 105°C (221° F)
- HSS Co8
- TiAIN coating

Material:

- E-Cu, galvanic tin-plated
- Plastic collar: Polypropylene

- UL-certified in conjunction with the relevant tools, such as crimping machines.

Standards:

- AEH DIN 46228

Approvals

- UR
- CSA

For crimping machines

For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Delivery form	Packs of	Model No.
0.5 (0.0007)	20	8 (0.31)	White	Loose	500 pc(s).	4050.730
0.75 (.0011)	18	8 (0.31)	Grey	Loose	500 pc(s).	4050.731
1 (.0015)	18	8 (0.31)	Red	Loose	500 pc(s).	4050.732
1.5 (.0023)	16	8 (0.31)	Black	Loose	500 pc(s).	4050.733

For crimping machines

For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Delivery form	Packs of	Model No.
0.5 (0.0007)	20	8 (0.31)	White	Taped	5000 pc(s).	4050.746
0.75 (.0011)	18	8 (0.31)	Grey	Taped	5000 pc(s).	4050.747
1 (.0015)	18	8 (0.31)	Red	Taped	5000 pc(s).	4050.748
1.5 (.0023)	16	8 (0.31)	Black	Taped	5000 pc(s).	4050.749
2.5 (.0038)	14	8 (0.31)	Blue	Taped	3000 pc(s).	4050.750

For manual wire processing (AWG cables) and crimping machines 0.5 - 1.5mm²

For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Delivery form	Packs of	Model No.
0.5 (.0007)	20	8 (0.31)	White	Loose	500 pc(s).	4050.742
0.75 (.0011)	18	8 (0.31)	Grey	Loose	500 pc(s).	4050.743
1 (.0015)	18	8 (0.31)	Red	Loose	500 pc(s).	4050.744
1.5 (.0023)	16	8 (0.31)	Black	Loose	500 pc(s).	4050.745

For manual wire processing

		- 0				
For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Delivery form	Packs of	Model No.
0.5 (.0007)	20	10 (0.39)	White	Loose (10 packs of 100)	1000 pc(s).	4051.638
0.5 (.0007)	20	12 (0.47)	White	Loose (10 packs of 100)	1000 pc(s).	4050.737
0.75 (.0011)	18	10 (0.39)	Grey	Loose (10 packs of 100)	1000 pc(s).	4051.641
0.75 (.001)	18	12 (0.47)	Grey	Loose (10 packs of 100)	1000 pc(s).	4050.738
1 (.0015)	18	10 (0.39)	Red	Loose (10 packs of 100)	1000 pc(s).	4051.644
1 (.0015)	18	12 (0.47)	Red	Loose (10 packs of 100)	1000 pc(s).	4050.739
1.5 (.0023)	16	10 (0.39)	Black	Loose (10 packs of 100)	1000 pc(s).	4051.647
1.5 (.0023)	16	12 (0.47)	Black	Loose (10 packs of 100)	1000 pc(s).	4050.740
2.5 (.0038)	14	10 (0.39)	Blue	Loose (10 packs of 100)	1000 pc(s).	4051.525
2.5 (.0038)	14	12 (0.47)	Blue	Loose (10 packs of 100)	1000 pc(s).	4050.741
4 (.0062)	12	12 (0.47)	Grey	Loose	500 pc(s).	4050.783
6 (.0093)	10	12 (0.47)	Yellow	Loose	100 pc(s).	4050.736
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Wire end ferrules

for Wiring Machines L8, R8 and R8 E

Wire end ferrule

According to Rittal color code:

With plastic collar.

Technical specifications:

- Heat-resistant to 105°C (221°F)

Material:

- E-Cu, galvanic tin-plated - Plastic collar: Polypropylene

Note:

- UL-certified in conjunction with the relevant tools, such as crimping machines.

Approvals: - UL - UR

- CSA

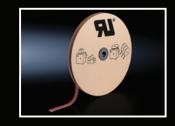


For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Deliver form	Packs of	Model No.
0.5 (.0007))	20	8 (0.31)	Orange	Taped	5000 pc(s).	4051.597
0.75 (0011)	18	8 (0.31)	White	Taped	5000 pc(s).	4051.599
1 (.0015)	18	8 (0.31)	Yellow	Taped	5000 pc(s).	4051.601
1.5 (.0023)	16	8 (0.31)	Red	Taped	5000 pc(s).	4051.603
2.5 (.0038)	14	8 (0.31)	Blue	Taped	3000 pc(s).	4051.750

For manual wire processing and crimping machines 0.5 - 2.5 mm² (.0007 - .0038 in.²)

		and orninping ii			,,	
For cross-section mm² (in.²)	AWG	Length mm (in.)	Color	Delivery form	Packs of	Model No.
0.14 (.0002)	26	8 (0.31)	Grey	Loose	500 pc(s).	4050.752
0.25 (.0003)	24	8 (0.31)	Light Blue	Loose	500 pc(s).	4050.754
0.34 (.0005)	22	8 (0.31)	Turquoise	Loose	500 pc(s).	4050.757
0.5 (.0007)	20	8 (0.31)	Orange	Loose	500 pc(s).	4050.760
0.5 (.0007)	20	10 (0.39)	Orange	Loose	500 pc(s).	4050.761
0.75 (.0011)	18	8 (0.31)	White	Loose	500 pc(s).	4050.764
0.75 (.0011)	18	10 (0.39)	White	Loose	500 pc(s).	4050.766
1(.0015)	18	8 (0.31)	Yellow	Loose	500 pc(s).	4050.769
1(.0015)	18	10 (0.39)	Yellow	Loose	500 pc(s).	4050.770
1.5 (.0023)	16	8 (0.31)	Red	Loose	500 pc(s).	4050.773
1.5 (.0023)	16	10 (0.39)	Red	Loose	500 pc(s).	4050.774
2.5 (.0038)	14	8 (0.31)	Blue	Loose	500 pc(s).	4050.734
2.5 (.0038)	14	10 (0.39)	Blue	Loose	500 pc(s).	4050.779
4 (.0062)	12	8 (0.31)	Grey	Loose	500 pc(s).	4050.782
4 (.0062)	12	10 (0.39)	Grey	Loose	500 pc(s).	4050.735
6 (.0093)	10	12 (0.47)	Black	Loose	100 pc(s).	4050.785





Notes	

Notes

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Faster - better - worldwide.

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

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