

Wire Terminal WT fully automated wire processing machine



The compact Wire Terminal 24 or 36 fully automated wire processing machine ensures efficient, cost-effective wire processing. Up to 36 different wires in cross-sections ranging from 0.5 mm² to 2.5 mm² may be processed fully automatically without retooling. The optional print system prints the wires in black or white, then transfers them to downstream process stages via a controlled ordering system capable of accommodating up to 1300 processed wires. All production data can be read and processed via suitable interfaces. Manual logging of wire lists is likewise supported.



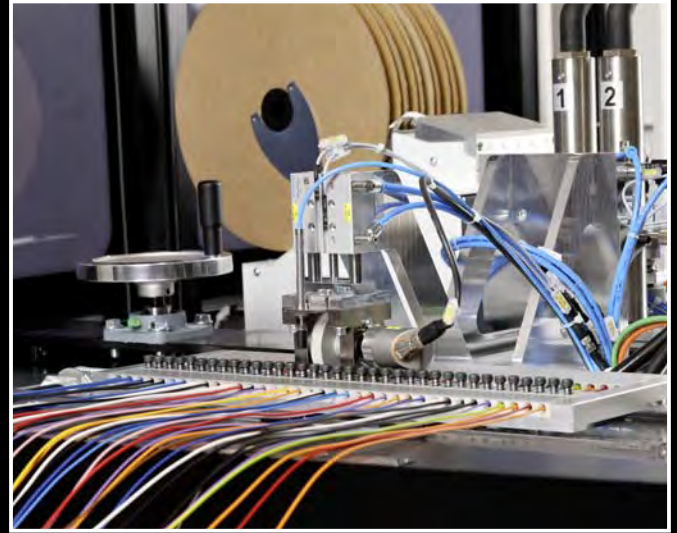
- Integral touch display for data processing

- Label printer for wire magazine identification



Wire storage

The modular, space-saving wire store and wire routing system for the Wire Terminal. Six wire drums are stored on each of the two levels in a space-saving design. Depending on the number of wires used, the fully automatic wire processing machine may be fitted with additional wire stores (central, left, right), each with space for 12 wire containers (see table on page 55 for selection).



24 or 36 wires

The Wire Terminal may be fitted with wire guides for 24 or 36 wires. Wires are fed in via a 24-/36-wire feed magazine which is horizontally adjustable and controlled via a servo-motor NC axis. Wires are clamped by a spring-assisted clamp which is pneumatically released during the wire feed process.



Wire labelling and processing

To ensure optimum positioning of the origin/destination on the wires, the Wire Terminal may be fitted with black, white or both marking systems. Multiple insulation stripping and crimping machines may also be integrated via an optional lift.



Selection of wire magazines

The processed wires are sorted into their individual orders by the removal handling system in the removal unit, to which end up to 13 wire rails are inserted in the removal magazine. A servomotor-controlled linear guide monitored by a limit switch positions the removal magazine horizontally on the rail.

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The new, compact Wire Terminal WT fully automated wire processing machines produce up to 36 different wires in cross-sections ranging from 0.5 mm² to 2.5 mm² fully automatically, with zero manual intervention.

Design:

- For fully automatic processing of wire lists for wire assembly
- Optional management of 24 or 36 wires
- Suitable wire stores are selected depending on the number of wires
- When using multiple crimping machines for different cross-sections, the machine may be fitted with a lift option
- Without a lift option, the stripping and crimping machine RC is the ideal choice
- The machine configuration includes a 13-way storage system with wire magazines

Benefits:

- Faster processes thanks to fully automated wire processing with individual wire printing and order-picking
- Fully interlinked, from the E-CAD tool through to the production processes
- Make your wire assembly production process 8 times faster
- Continuous top quality
- Investment amortisation period of 2.5 years from a minimum of 300 enclosures per annum
- Assembled wires from the ordering system can be processed in the subsequent enclosure wiring process stage with the "Smart Wiring" tool from Eplan

Supply includes:

- Machine frame and encapsulation
- Integral display
- Wire clamp system
- Wire cutting module
- Locator for wire labelling unit
- Turntable and wire routing
- 26 wire magazines as per requirements
- Label printer for wire magazine identification

Machinable material:

- Fine-wire copper cables to DIN VDE 0295 Category 5

Note:

- Please talk to your Rittal sales consultant about a bespoke machine configuration.

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Model No.	P. of	4051.024	4051.036	Page
Version		Managing 24 wires	Managing 36 wires	
Machine dimensions (W x H x D) mm		1950 x 2220 x 1800	1950 x 2220 x 1800	
Footprint size including 2 wire stores (W x H x D) mm		1950 x 2250 x 4000	1950 x 2250 x 4000	
Footprint size including 3 wire stores (W x H x D) mm		3610 x 2250 x 4000	3610 x 2250 x 4000	
Wires per hour approx.		240	240	
Compressed air connection (bar)		6	6	
Power consumption (kW approx.)		1	1	
Electrical connection (V, ~, Hz)		400, 3~, 50	400, 3~, 50	
Frequency (Hz)		50	50	
Control voltage V (DC)		24	24	
Wire Terminal weight (kg)		1100	1100	
Weight per wire store, unloaded (kg)		130	130	
Eplan interfaces		Pro Panel Smart Wiring	Pro Panel Smart Wiring	
Safety devices		The machine interior is fully encapsulated. The machine zone allows access from 4 sides, monitored via contactless safety limit switches on the bifold doors.		

Also required

Crimping machine R8-I	1 pc(s).	4051.021	4051.021	
Crimping machine RC-I	1 pc(s).	4051.020	4051.020	
Wire end ferrules	1 pc(s).	see page	see page	80
Wire store for WT, central unit	1 pc(s).	4051.026	4051.026	
Wire store for WT, additional module, left	1 pc(s).	4051.027	4051.027	
Wire store for WT, additional module, right	1 pc(s).	4051.028	4051.028	

Machine option

Lift option	1 pc(s).	4051.025	4051.025	
Printer option, black	1 pc(s).	4051.029	4051.029	
Printer option, white	1 pc(s).	4051.030	4051.030	
Wire rail magazine 0.5 mm ²	1 pc(s).	4051.040	4051.040	
Wire rail magazine 0.75 mm ²	1 pc(s).	4051.041	4051.041	
Wire rail magazine 1.0 mm ²	1 pc(s).	4051.042	4051.042	
Wire rail magazine 1.5 mm ²	1 pc(s).	4051.043	4051.043	
Wire rail magazine 2.5 mm ²	1 pc(s).	4051.044	4051.044	