

METZNER TRIATHLON RANGE

AUTOMATION AND COST REDUCTION IN CONTROL CABINET MANUFACTURE



TRIATHLON 2000

The economy entry-level model which is equipped for all the principal automation processes in control cabinet manufacture: Precision cut-to-length and stripping of the cables with a cross section from 0.14 mm² up to 6 mm² conductor section and crimping of cable ends (single or double-sided) up to

TRIATHLON 3000

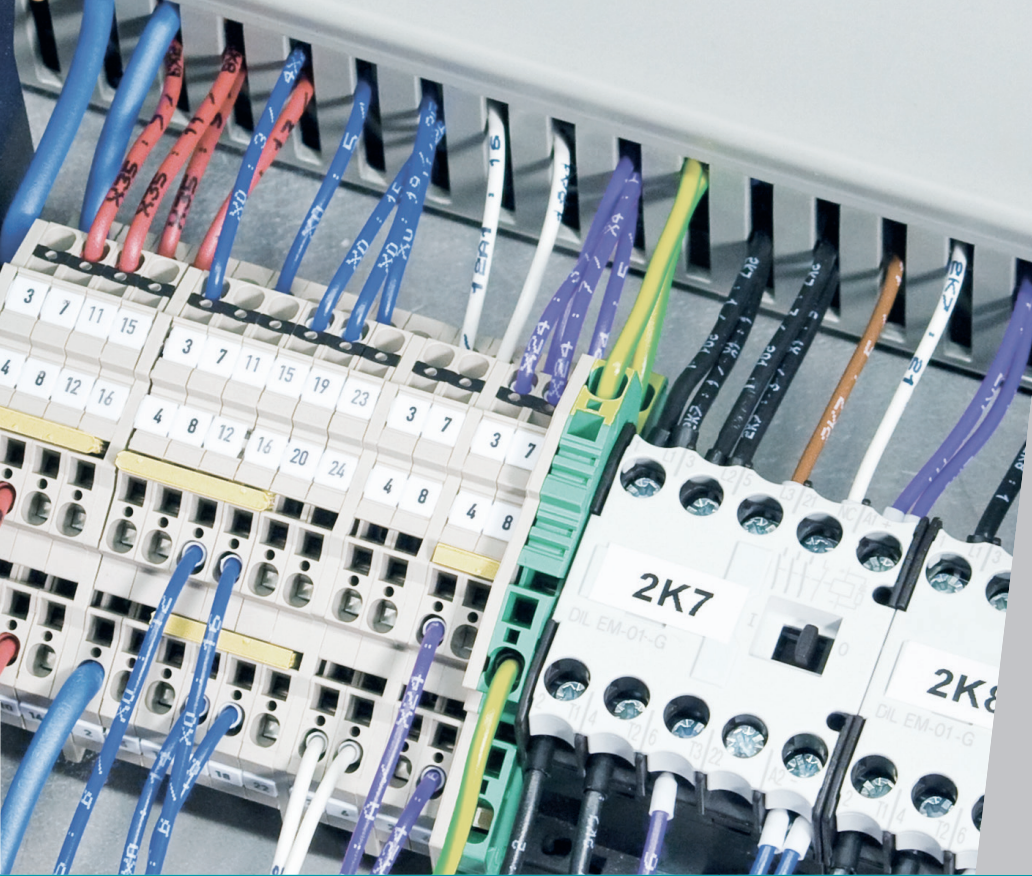
The answer for all cables used in panel building: crimping up to 4 mm² conductor section, cable preparation up to 35 mm² and 15 mm diameter and automatic of all wires with ink-jet or thermal transfer printing.



TRIATHLON 3000+

The most flexible model of the triathlon range. Equipped with a modular crimping unit, this model offers a quick extension of the processing possibilities and an extension of the maximum cross section to crimp up to 4 mm² or 6 mm² conductor section.





FEATURES

- Precision cut-to-length cutting and single or double-sided stripping
- Crimping of cable ends
- Individual printing of the wires (ink-jet-printing with one or two printers and Brady-Wraptor-printing)
- Pre-sorting of the cables into their component groups
- Total performance spectrum of the Metzner AM 3000 range

TECHNICAL DATA

Model	Triathlon 2000	Triathlon 3000	Triathlon 3000+
Wire outer diameter max.	4 mm 0.16" with crimping, 6 mm 0.24" w/o	4 mm with crimping, 15 mm w/o	4 mm with crimping, 15 mm w/o
Wire length min. / max. ¹	160 mm / 999 mm 6.3" / 39.33"	250 mm / 999 mm 9.84" / 39.33"	250 mm / 999 mm 9.84" / 39.33"
Cross section wire crimping max. ²	2.5 mm ² 13 AWG, optional 4 mm ² 11 AWG	2.5 mm ² 13 AWG, optional 4 mm ² 11 AWG	2.5 mm ² 13 AWG, optional 4 / 6 mm ² 11 / 9 AWG
Cross section wire cutting to length ²	0.14 - 6 mm ² 17 - 9 AWG	0.5 - 35 mm ² 20 - 2 AWG	0.5 - 35 mm ² 20 - 2 AWG
Feeding speed max.	60 m/min 3.28 ft/s	120 m/min 6.56 ft/s	120 m/min 6.56 ft/s
Stripping length max. side 1 / max. side 2	70 mm / 40 mm 2.76" / 1.57"	220 mm / 170 mm 8.66" / 6.69"	220 mm / 170 mm 8.66" / 6.69"
Electrical connection	230 V, 50/60 Hz, 1.4 A	230 V, 50/60 Hz, 3.1 A	230 V, 50/60 Hz, 3.1 A
Compressed air connection	6 bar 87 PSI	6 bar 87 PSI	6 bar 87 PSI
Dimensions (LxWxH)	1450 x 1050 x 1450 mm	1750 x 1100 x 1520 mm	1750 x 1100 x 1520 mm
	57 x 41 x 57"	69 x 43 x 60"	69 x 43 x 60"

¹ shorter lengths possible without crimping and stripping | ² depending on material

TRIATHLON SOFT®

Triathlon Soft® starts with the control cabinet layout and automatically calculates the lengths for all the wires, cable trays and cable ducts. At the same time, Triathlon Soft® produces all the data for the printing of the cables and the machining of the assembly baseplates. Via an interface to its CAE system, the software collects all the necessary data in the form of wiring lists, sub-assembly lists or terminal lists and processes them on this basis into a production-orientated layout for the control cabinet. Triathlon Soft® is compatible with all commonly-used drilling centres and automatically creates all the data for the mechanical processing of the assembly baseplates. All the NC-data for automatic machining are produced by working from the construction plan and an optimised interface transfers the data to a drilling and milling machine.

