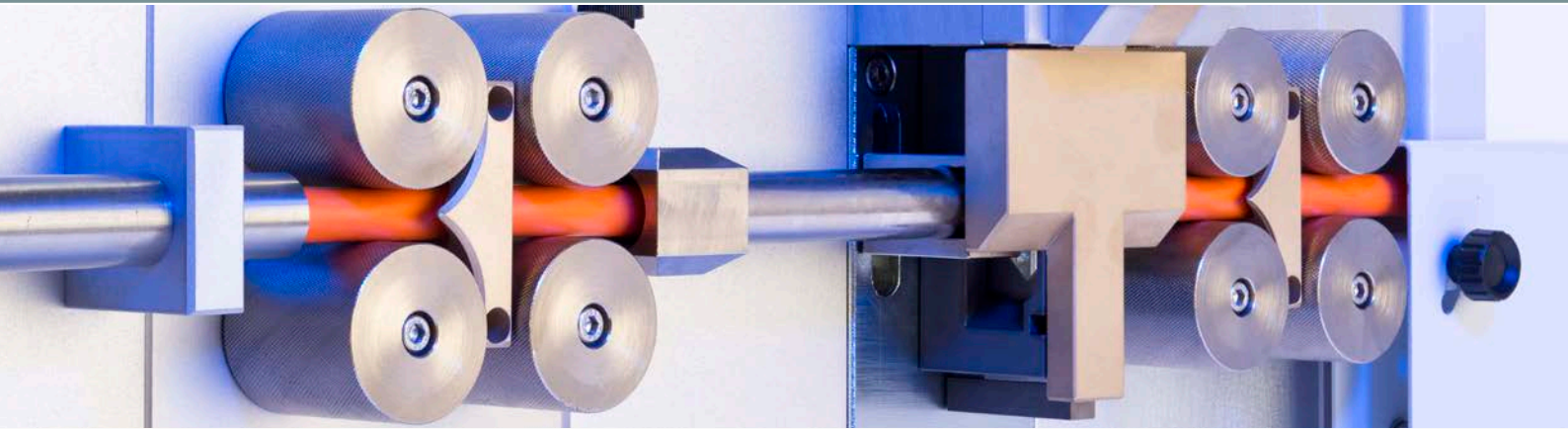


Metzner AM 3000

Cable processing and stripping machines with excellent cutting force and pull-off power for cables up to 70mm² and 20mm in diameter



Increased power and higher precision for larger diameters

The cable processing machines of the »Metzner AM 3000 series« are distinguished by their outstanding cutting and pull-off power and robust, long-life design for continuous industrial use.

Developed and equipped with a performance potential to deal with complete processing of cables and wires up to 70mm², these machines offer comprehensive processing possibilities: from standard stripping processes up to mul-

ti-stage stripping, even of very short shielded coaxial cables. Metzner offers eight base models for this, all with different cutting powers and equipment levels. In addition, their blade technologies vary with different blade contours to suit the requirements of different applications. The patented »Double-blade cutting system«, for example, with two knives operating together in one process step to perform different cutting processes and the additional rotary cut, providing

precise circumferential cutting for wires with very thin or tough insulation and for coaxial cables.

All models in the »Metzner AM 3000 series« are prepared – as standard – for a full set of interfaces for peripheral equipment and to facilitate IT integration. In this way, these cut and strip machines are converted easily and without the need for further design work into complete production lines to further increase production automation.



Individual possible uses

Single-core cables

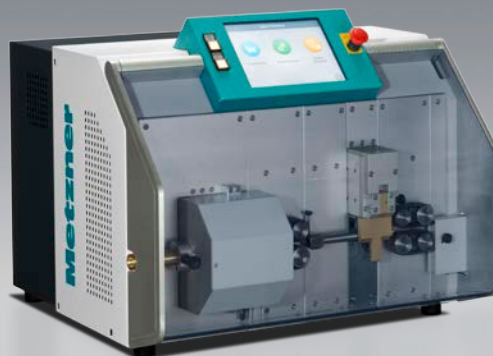
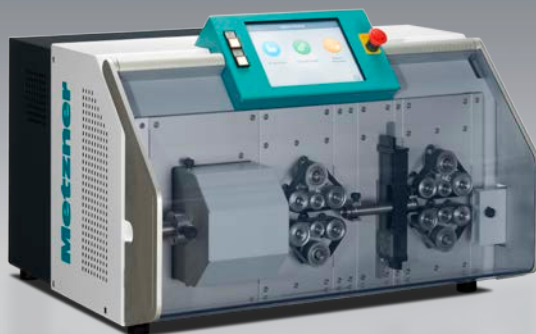
- Solid wire cables
- Battery cables
- Loudspeaker cables
- Non-metallic sheathed cables for photovoltaic systems
- Single-wire installation and vehicle cables
- Braids

Multi-core cables

- Fire-resistant cables
- High-voltage cables
- Power cables
- PVC control cables
- Ribbon cables
- Servo cables
- Data cables
- PUR cables

Shielded cables

- Coaxial cables
- Antenna cables
- Sensor leads
- Thermoelectric cables
- Telecommunication cables
- Cables for hybrid and electric vehicles



Metzner AM 3250

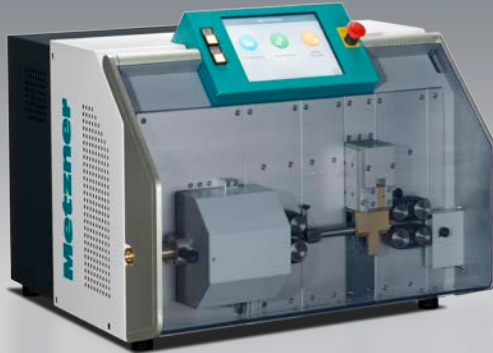
Maximum precision for multi-layer stripping of coaxial cables up to 12mm in diameter:

- Automatic cut-to-length and multi-stage stripping
- Rotary cutting module for increased precision
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Belt transport as standard
- Either PC control or PLC control

Metzner AM 3450

The perfect mix of power and speed for stripping and cutting wires and cables up to 35mm² and cable diameters up to 15mm:

- Automatic cut-to-length and multi-stage stripping
- Rotary cutting module
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Roller or belt transport as standard
- Either PC control or PLC control



Metzner AM 3650

Developed for powerful processing of wires and cables up to 50mm² and cable diameters up to 15mm:

- Automatic cut-to-length and multi-stage stripping
- Rotary cutting module
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Roller or belt transport as standard
- Either PC control or PLC control

Metzner AM 3850

The »Top Model« – cable processing machine with rotary cut for demanding and complex cables up to 70mm² and 20mm in diameter:

- Automatic cut-to-length and multi-stage stripping
- Rotary cutting module for increased precision
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Belt transport as standard
- Either PC control or PLC control



Metzner AM 3400

The entry level model for price-conscious customers for processing cables up to 35mm² and 15mm in diameter:

- Automatic cut-to-length and multi-stage stripping
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Roller or belt transport as standard
- Either PC control or PLC control

Metzner AM 3470

The high-speed model developed for bulk production of cable up to 25mm² and 15mm in diameter:

- Automatic cut-to-length and multi-stage stripping
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- High-speed mode increases cutting performance by approx. 60%
- Roller or belt transport as standard
- Either PC control or PLC control



Metzner AM 3600

High-performance and versatile – excellent power for cable processing up to 50mm² and 15mm in diameter:

- Automatic cut-to-length and multi-stage stripping
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Roller or belt transport as standard
- Either PC control or PLC control

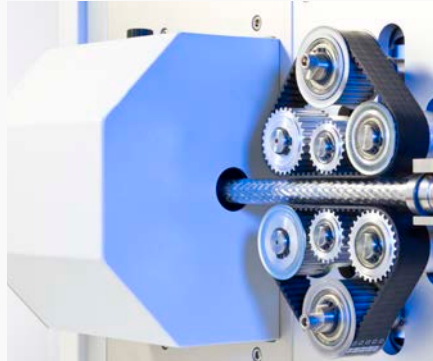


Metzner AM 3800

The »Powerhouse« – with unrivalled power in its class for cable processing up to 70mm² and 20mm in diameter:

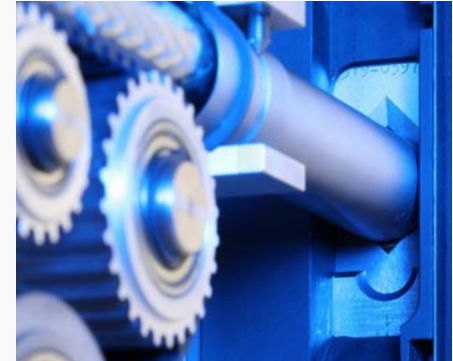
- Automatic cut-to-length and multi-stage stripping
- »Double-Blade Cutting System«
- V-blade (HSS) in the cutting module as standard
- Belt transport as standard
- Either PC control or PLC control

Properties and features



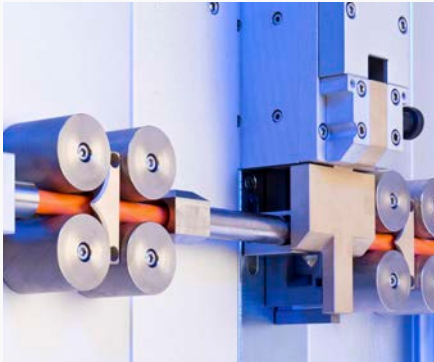
High-precision rotary cut

Equipped with a rotary cutting module, these machines process either coaxial cables or cables with very thin or tough insulation, depending on the model. The rotary cut guarantees a precise circumferential cut into the cable cover or sheathing. All requirements such as cut depth or blade rotation speed are freely programmable to match each cable and ensure constantly optimal results with different material demands.



Outstanding cutting force

With superior power development for 35mm², 50mm² and 70mm², the Metzner AM 3000 range offers a unique power spectrum for processing cables up to 20mm diameter.



Speed gives high productivity

The feed units used in the Metzner AM 3000 range provide a transport speed of up to 180 m/min. This increases the productivity of the machines, particularly for large cable lengths. The electronically controlled »Vario-Press« on the »AM 3800« and »AM 3850« adjusts the contact pressure during transportation and processing, thereby providing maximum protection of the material.



Option of roller feed or belt feed

You can choose between roller feed and belt feed at no extra cost for several models¹⁾ in the Metzner AM 3000 range. This ensures that you have the best feed system for every cable. If your production requirements change, it is also possible to change the feed system using our retrofit kits.

¹⁾ see pages 14 and 15 of the technical information



Modern operation

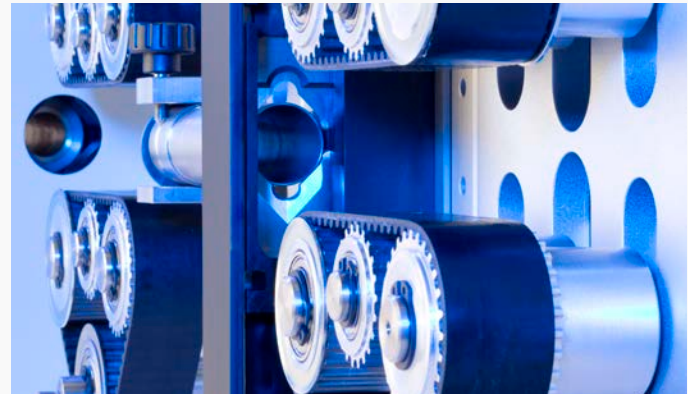
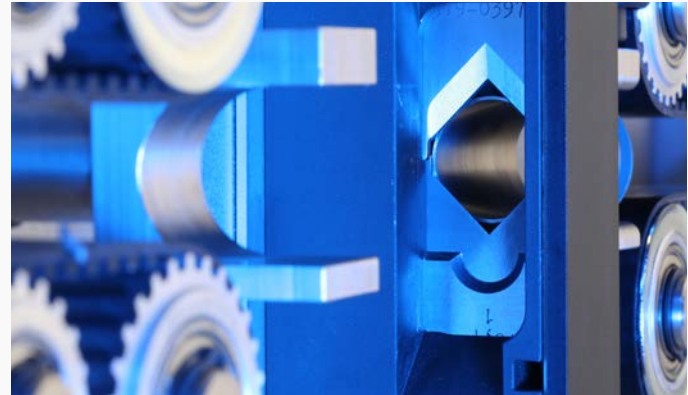
The AM 3000 series comes with either PC control or PLC control as standard. PC control as standard enables you to activate printing devices (e.g. ink-jet printers, thermal transfer printers) and integrate database software.

One operation – two processes

Each model in the »AM 3000 series« is equipped with the patented »Double-Blade Cutting System« as standard. As a result, several processes can be performed during a single operation.

Examples of the numerous processing possibilities include:

- V-blade for cutting to length and matrix form blade for removing insulation
- Radius V-blade for cut-to-length and removing insulation and slitting blade for removing intermediate sheathing
- Simultaneous processing of outer jacket and internal cores for multi-core cables



Processing possibilities

Processing possibilities with Metzner AM 3000 machines	AM 3250	AM 3450	AM 3650	AM 3850	AM 3400	AM 3470	AM 3600	AM 3800
Cut-to-length	●	●	●	●	●	●	●	●
Stripping with partial and full pull-off	●	●	●	●	●	●	●	●
Window stripping	●	●	●	●	●	●	●	●
Extremely long pull-off in multiple stages	●	●	●	●	●	●	●	●
Jacket stripping of multi conductor cables	●	●	●	●	●	●	●	●
Outer sheath and inner strands processing ¹⁾	●	●	●	●	●	●	●	●
Flat ribbon stripping and inner strands processing ¹⁾	○	○	○	○	○	○	○	○
Incise cutting and length slitting	●	●	●	●	●	●	●	●
Stripping of very thin insulations	●	●	●	●	●	●	●	●
Multi-step stripping of multi-conductor cables and protection cap ¹⁾	●	●	●	●	●	●	●	●
Metal braid stripping with protection cap	●	●	●	●	●	●	●	●
Multi-step stripping	●	●	●	●	●	●	●	●
Multi-step processing of coaxial cables	●	●	●	●	—	—	—	—

¹⁾ depending on material | ● = standard, ○ = optional, — = not available | Specifications are subject to change without notice.

Economic additions

As well as high quality processing machines for cables and wires, Metzner also offers quick, product-friendly and economical peripheral equipment to extend your cut and strip machine into an automatic processing line. We classify our peripheral equipment into the following categories:

- Unwinding and feeding
- Printing and Marking
- Stacking and Coiling
- Roughing
- Software Solutions





Technical data

Performance data	Metzner AM 3250	Metzner AM 3450	Metzner AM 3650	Metzner AM 3850
Cable outer diameter max.	12mm	15mm	15mm	20mm
Cable size range stranded ¹⁾	0.5 - 35mm ²	0.5 - 35mm ²	0.5 - 50mm ²	0.5 - 70mm ²
Cable size range solid ¹⁾	0.5 - 6mm ²	0.5 - 6mm ²	0.5 - 10mm ²	0.5 - 16mm ²
Feeding speed max. ²⁾	180 m/min	180m/min	180 m/min	180 m/min
Pull-off length 1 st side ³⁾	100mm	210mm	210mm	210mm
Pull-off length 2 nd side	60mm	110mm	110mm	110mm
Cable length	20mm – 999m	65mm – 999m	65mm – 999m	20mm – 999m

Specifications				
Electrical connection	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A
Dimensions (LxWxH)	885 x 775 x 565mm	785 x 760 x 605mm	785 x 760 x 605mm	885 x 775 x 565mm
Compressed air connection	6 bar	6 bar	6 bar	—
Weight	130 kg	110 kg	110 kg	130 kg

Equipment				
Cutting system	Double-blade and rotary cut	Double-blade and rotary cut	Double-blade and rotary cut	Double-blade and rotary cut
Feeding system	Belt feed	Belt or roller feed	Belt or roller feed	Belt feed
Control	PC / PLC	PC / PLC	PC / PLC	PC / PLC
Interfaces for printing ⁴⁾	●	●	●	●
Interfaces for peripheral equipment	●	●	●	●
Interfaces for IT network ⁴⁾	●	●	●	●

¹⁾ depending on material | ²⁾ infinitely adjustable | ³⁾ longer pull-off lengths are possible with multiple cuts | ⁴⁾ in combination with PC control

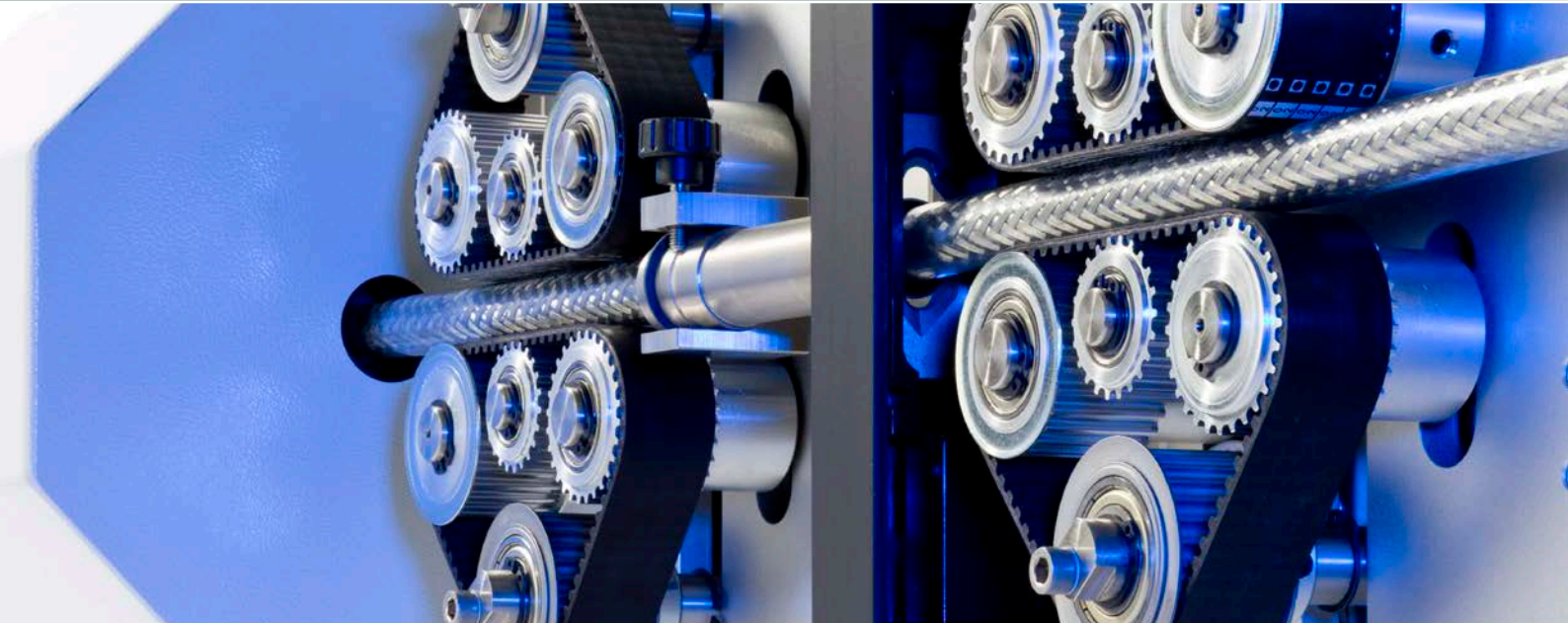
● = standard, ○ = optional, — = not available | Specifications are subject to change without notice.

Performance data	Metzner AM 3400	Metzner AM 3470	Metzner AM 3600	Metzner AM 3800
Cable outer diameter max.	15mm	15mm	15mm	20mm
Cable size range stranded ¹⁾	0.5 - 35mm ²	0.5 - 25mm ²	0.5 - 50mm ²	0.5 - 70mm ²
Cable size range solid ¹⁾	0.5 - 6mm ²	0.5 - 2.5mm ²	0.5 - 10mm ²	0.5 - 16mm ²
Feeding speed max. ²⁾	180 m/min	180 m/min	180 m/min	180 m/min
Pull-off length 1 st side ³⁾	210mm	210mm	210mm	210mm
Pull-off length 2 nd side	110mm	110mm	110mm	110mm
Cable length	65mm – 999m	65mm – 999m	65mm – 999m	20mm – 999m

Specifications				
Electrical connection	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A	230 V, 50/60 Hz, 2 A
Dimensions (LxWxH)	665 x 700 x 605mm	665 x 700 x 605mm	665 x 700 x 605mm	690 x 710 x 565mm
Compressed air connection	6 bar	6 bar	6 bar	—
Weight	90 kg	90 kg	90 kg	100 kg

Equipment				
Cutting system	Double-blade	Double-blade	Double-blade	Double-blade
Feeding system	Belt or roller feed	Belt or roller feed	Belt or roller feed	Belt or roller feed
Control	PC / PLC	PC / PLC	PC / PLC	PC / PLC
Interfaces for printing ⁴⁾	●	●	●	●
Interfaces for peripheral equipment	●	●	●	●
Interfaces for IT network ⁴⁾	●	●	●	●

¹⁾ depending on material | ²⁾ infinitely adjustable | ³⁾ longer pull-off lengths are possible with multiple cuts | ⁴⁾ in combination with PC control
 ● = standard, ○ = optional, — = not available | Specifications are subject to change without notice.



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