

Metzner AM 5000

Cable processing and stripping machines with excellent cutting force and pull-off power for cables up to 240mm²



Performance, precision and versatility

For production where large diameter cables are processed reliably and with precision, the Metzner AM 5000 series is an available solution with the highest level of cutting and pull-off power, ease of operation and long service life.

The Metzner AM 5000 series was specially developed for cables up to 30mm diameter and cross sections up to 240mm². The particularly high-torque and powerful 3-phase stepper motors

guarantee the necessary power for the pull-off and cutting operations. Their precise finger-tip way of working also makes the Metzner AM 5000 series suitable for processing thinner cables from 1.5mm².

All models are equipped with an electronically controlled »Vario-Press«. This innovative system ensures that the belt closing pressure of the feeders is matched with the necessary applied

pulling force in fractions of a second. This ensures optimum gripping pressure of the cables both for stripping and feeding of the cables.

To ensure uninterrupted, automatic production, the material feed is monitored by several sensors. If a material blockage occurs, the production is stopped automatically and the operator is informed about the cause of the stoppage.



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

Several models

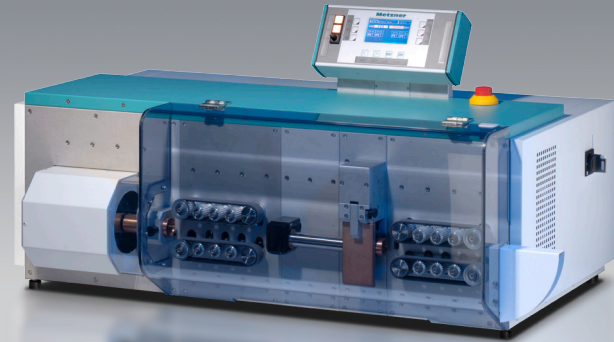
The Metzner AM 5000 series features three models which differ in terms of equipment and performance.

- Metzner AM 5300
- Metzner AM 5300 HD
- Metzner AM 5350

The »AM 5300« and »AM 5300 HD« machines provide excellent cutting force and pull-off power. The »AM 5300« is used to process cables up to 185mm², while the heavy duty (HD) version processes cables up to 240mm².

In addition to the features of the »AM 5300«, the »AM 5350« also has a rotary cut which is particularly suited to processing coaxial cables and shielded cables with single, double or triple-stage processing.





Metzner AM 5300 / AM 5300 HD

Cable cut-and-strip machine with outstanding level of cutting and pull-off power, many processing possibilities for cables up to 240mm² and cable diameters up to 30mm:

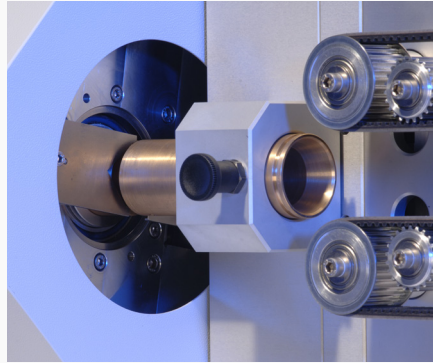
- Automatic cut-to-length and multi-stage stripping
- Patented »Double-Blade Cutting System« as standard
- Self-monitoring system as standard
- Comprehensive memory capacity for cable processing programs, which are available at the press of a button

Metzner AM 5350

The »Top-Of-The-Class« machine, equipped with rotary cutting module for processing cables up to 185mm² and cable diameters up to 30mm:

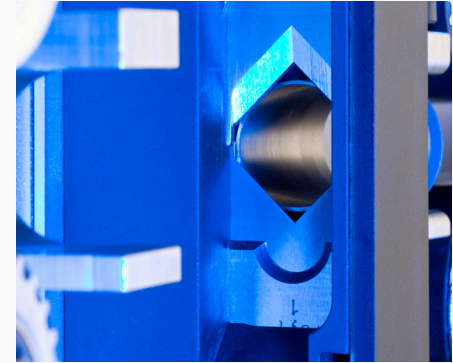
- All features of the »Metzner AM 5300«, plus:
- Rotary cutting module for processing shielded cables, hybrid cables, control cables with thin covering and many other applications

Properties and features



High-precision rotary cut

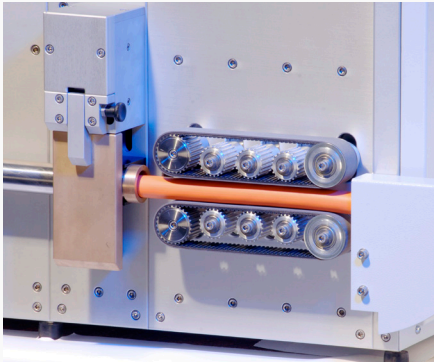
Equipped with a rotary cutting module, the AM 5350 processes coaxial cables and wires with very thin or tough insulation. The rotary cut guarantees a precise circumferential cut into the cable cover or sheathing. All requirements such as cut depth or blade rotation speed are freely programmable to match each cable and ensure constantly optimal results with different material demands.



One operation – two processes

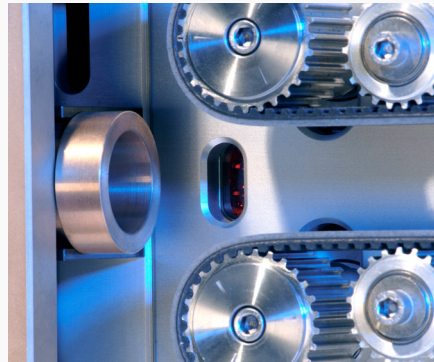
The standard equipment with the patented »Double blade cutting system« allows several processes during a single operation, such as:

- 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



Speed gives high productivity

The feed units used in the Metzner AM 5000 series provide a transport speed of up to 150 m/min. This increases the productivity of the machines, particularly for large cable lengths. The electronically controlled »Vario-Press« adjusts the contact pressure during transportation and processing, thereby providing maximum protection of the material.



Self-monitoring system

The machines are monitored by sensors to ensure uninterrupted production. Production is halted automatically if the material runs out or if there is a blockage.



User-friendly operation

The individual production parameters can be programmed with ease using the menu system, even for demanding insulation materials. The display shows the cable currently being processed and the selected processing values. Recurring jobs can be set up in no time as all selected parameters are saved.

Economic additions



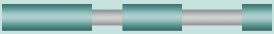





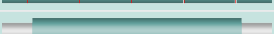




As well as high quality processing machines for cables and wires, Metzner also offers quick, product-friendly and economical peripheral equipment to extend your cut and strip machine into an automatic processing line. We classify our peripheral equipment into the following categories:

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





Processing possibilities

| Processing possibilities with Metzner AM 5000 machines | | Metzner AM 5300 | Metzner AM 5300 HD | Metzner AM 5350 |
|---|---|-----------------|--------------------|-----------------|
|  | 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⁾ | ○ | ○ 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.

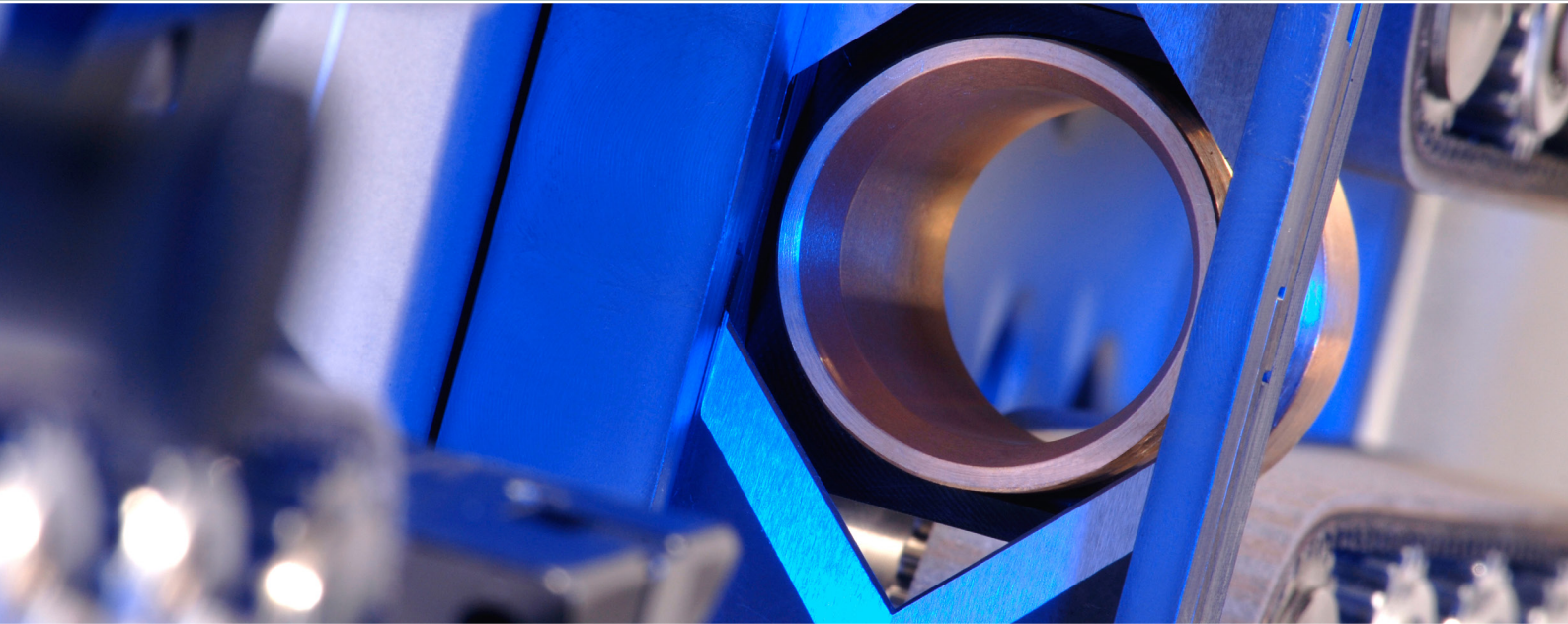
Technical data

| Performance data | Metzner AM 5300 | Metzner AM 5300 HD | Metzner AM 5350 |
|---|--------------------------|--------------------------|--------------------------|
| Cable outer diameter max. | 30mm | 30mm | 30mm |
| Cable size range stranded ¹⁾ | 1.5 – 185mm ² | 1.5 – 240mm ² | 1.5 – 185mm ² |
| Cable size range solid ¹⁾ | 1.5 – 16mm ² | 1.5 – 16mm ² | 1.5 – 16mm ² |
| Feeding speed max. ²⁾ | 150 m/min | 150 m/min | 150 m/min |
| Pull-off length full strip 1 st side ³⁾ | 270 – 450mm | 270 – 450mm | 270 – 450mm |
| Pull-off length full strip 2 nd side | 90 – 270mm | 90 – 270mm | 90 – 270mm |
| Pull-off length partial strip max. 1 st side ³⁾ | 450mm | 450mm | 450mm |
| Pull-off length partial strip max. 2 nd side | 270mm | 270mm | 270mm |
| Cable length | 20mm – 999m | 20mm – 999m | 20mm – 999m |

| Specifications | Metzner AM 5300 | Metzner AM 5300 HD | Metzner AM 5350 |
|----------------------------------|--------------------------|--------------------------|--------------------------|
| Electrical connection | 3–400 V, 50/60 Hz, 2.6 A | 3–400 V, 50/60 Hz, 3.0 A | 3–400 V, 50/60 Hz, 2.8 A |
| Dimensions (LxWxH) ⁴⁾ | 1045 x 860 x 500mm | 1045 x 860 x 500mm | 1445 x 860 x 500mm |
| Weight | 180 kg | 200 kg | 250 kg |

| Equipment | Metzner AM 5300 | Metzner AM 5300 HD | Metzner AM 5350 |
|---|-----------------|--------------------|-----------------------------|
| Cutting system | Double-blade | Double-blade | Double-blade and rotary cut |
| Feeding system | Belt feed | Belt feed | Belt feed |
| System monitoring | ● | ● | ● |
| Interfaces for printing ⁵⁾ | ● | ● | ● |
| Interfaces for IT network ⁵⁾ | ● | ● | ● |

¹⁾ depending on material | ²⁾ infinitely adjustable | ³⁾ longer pull-off lengths are possible with multiple cuts | ⁴⁾ Machine height with control 710mm | ⁵⁾ in combination with optional PC
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