



Cosmic 42R

Stripping machine for micro-coaxial cables

komax



The Cosmic 42R is the precision machine for multi-layered stripping of micro-coaxial cables. This stripping machine processes the finest conductors with speed and precision. Multi-step stripping involving up to 9 steps is part of the performance capabilities of the Cosmic 42R, as is its memory that accommodates 1000 data records.

Area of application

The Cosmic 42R stripping machine is used for micro-coaxial cables involving especially tough precision requirements. Cosmic 42R optimally processes coaxial cables, triaxial cables and cables with especially thin, hard or tough insulation.

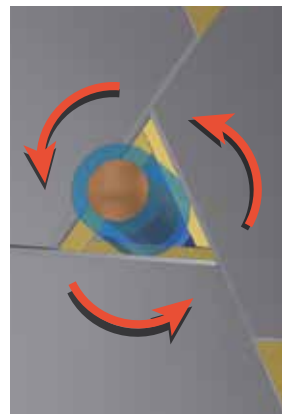
Conductors with braided insulation, e.g. polyester fibers, also belong to the processing range.

The Cosmic 42R is ideal for a great diversity of products made in small to medium quantities.

Rotating stripping head with centring

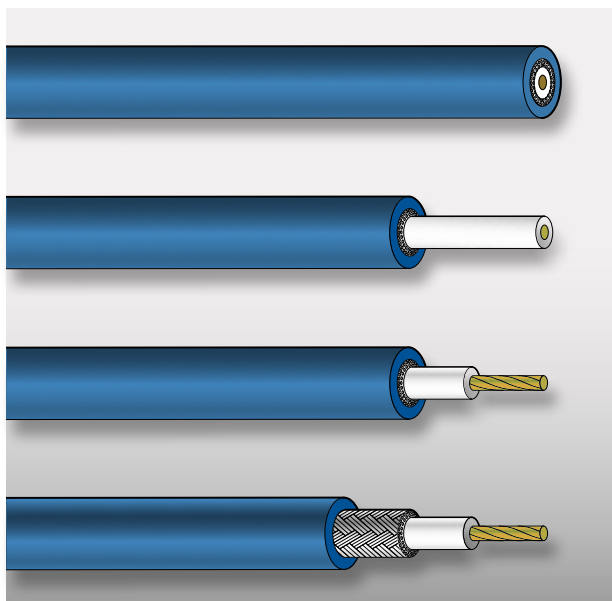
The blade head of the Cosmic 42R is fitted with three blades and three centring units. Stripping with rotating blades and centring offers major advantages:

- The centring unit positions the cable with precision.
- The rotating blades cut the entire circumference of the insulation with precision.
- The force needed for pull-off is reduced to a minimum.



Rotating 3-blade system ▶

With three centralizers



▲ **3-step stripping** Diagram

Twisting conductor tips

Twisting the tips of conductors prevents splayed stranded wires. The twisting function of the Cosmic 42R prepares the cable in an optimum way for being handled during assembly or tinning.

Multi-step stripping

The Cosmic 42R strips multi-layered conductors in up to 9 steps. The processing steps can be programmed in any desired order. The cutting parameters can be independently set and optimised for every level. The Cosmic 42R has a memory that accommodates 1000 different conductors along with all processing parameters.

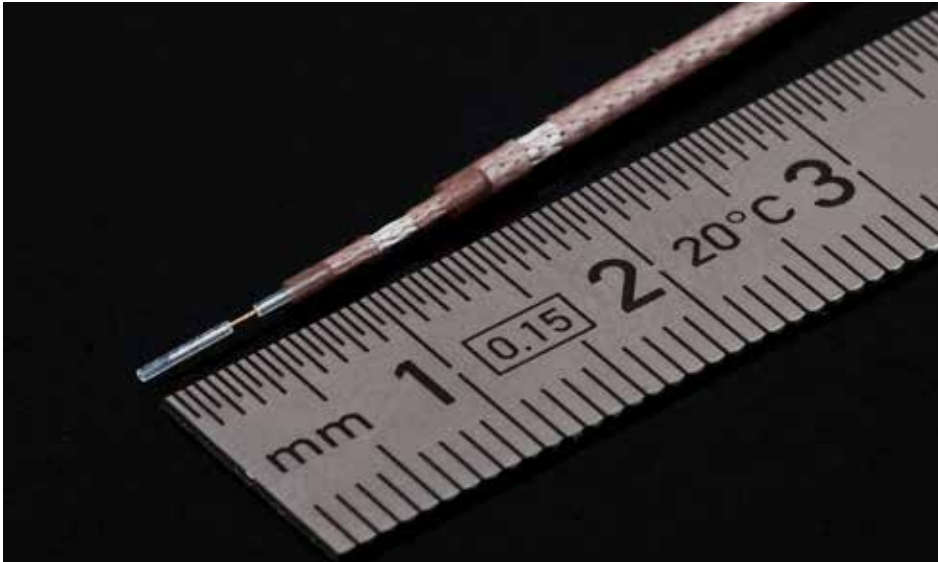
Micro-coaxial connectors put the toughest demands on the precise processing of multilayered conductors. The Cosmic 42R carries out all cuts with ultra-precision and creates the best prerequisites for a top quality coaxial connection.

Operation

The operation of the Cosmic 42R is intuitive. The graphical display assists the operator with setting the processing parameters. Parameters such as the turning and feed speed, cut duration, pull-off speed etc. are presented in an straight-forward table.

Your benefits:

- Highly precise processing of micro conductors
- Stripping in up to 9 steps
- Ease of operation
- Extremely low maintenance
- Light and portable



▲ **Processing sample**

Technical data

Outside diameter of the conductor (coaxial)	Approx. 0.5 mm–2 mm	0.012 in.–0.08 in.
Conductor cross section (discrete conductor)	0.005 mm ² –1.5 mm ²	AWG44–16
Minimum diameter of inner conductors	0.05 mm	0.002 in.
Resolution diameter	0.01 mm	0.0004 in.
Maximum pull-off length	40 mm	1.6 in.
Increment of pull-off length	0.01 mm	0.0004 in.
Maximum stripping steps	9	
Cycle time	6 seconds	
Production rate	Approx. 600 pcs/h (depending on conductor and programming)	
Database capacity	1000 programs	
Gripper force	Adjustable in 10 increments	
Electrical connection	1 × 100–240 V 50/60 Hz 120 VA	
Pneumatic connection	5–7 bar	73–102 psi
Noise emitted	Type < 50 dB(A)	
Dimensions (W × H × D)	140 × 243 × 570 mm	5.5 × 9.6 × 22.4 in.
Weight	9.2 kg	20.3 lbs
CE conformity	Complies with the EC directives on machine safety and electromagnetic compatibility	
RoHS	Complies with the Restriction of Hazardous Substances Directive (RoHS)	

In case of doubt, we recommend that you have samples made of the conductors before making a purchase.