MIRA 340
wire stripper

komax

EN

MIRA 340

The programmable Mira 340 is designed for universal use while maintaining maximum precision. It is perfect for processing wires and insulation material with demanding requirements. The Mira 340 is fitted with a rotary head with 4X-blades and offers unique functions designed to reduce production time and increase quality. As a result, a single machine can be used for a huge range of applications. Thanks to sequential processing, multi-conductor cables and multi-layer insulation material can be processed quickly, thereby saving time. Meanwhile, its ease of use increases productivity.

Outstanding range of leads
The machine for demanding wires
– Ideal for difficult-to-strip wires
– Processes a broad range of insulation types and materials
– Processes wires up to 16 mm^2 conductor cross section (AWG 5) and up to 72 mm strip length

Excellent stripping quality
– 4X-rotary blades for precise processing and high pull-off force
– Functions to minimize damage to conductors
– Article library and barcode scanning prevent input errors

High productivity
– Sequential processing functions for convenient and time-saving processing of multi-conductor and multi-layer cables
– Barcode scanning to quickly select articles
– Quick mode when rotary incision is disabled

HIGH STANDARDS
IN PRECISION, PRODUCTIVITY AND RANGE OF APPLICATION

▶ 4X-blades and a
stable rotary head
offer top results
when it comes to
wire stripping

EXCELLENT RESULTS
FOR DEMANDING LEADS

reddot award 2017
winner

The hallmark of quality recognized across the world for the perfect embodiment of functionality and outstanding design.

A broad range of applications with a single machine

Mira 340 covers a large span of wire specifications up to 16 mm^2 conductor cross section (AWG 5) and up to 72 mm strip length. It strips, trims and twists wires and cables with maximum precision. Even demanding insulating materials such as tough Teflon®, strong Kapton® and pliable silicon can be processed.

Outstanding stripping quality

Mira 340 features a unique and robust cutting head design. The wire stripper combines a rotary incision with four intersecting blades to provide a strong and balanced grip when pulling off insulation. The 4x-blades allow for a high level of stripping quality and a broad application range. Special capabilities like the offset pull-off with pre-pull function prevent nicks and scratches. When using offset pull-off, a cushion of insulation remains between the blades and the conductor. Every wire and every sequence can be stored in the article library to reduce errors and reproduce recorded articles at any time.

Special features for enhanced productivity

The wire stripper covers many wire types, eliminating the need to set up different equipment. All settings can be saved in libraries. This way, the operator can retrieve the processing parameters at any time using search and filter functions. Password-protected access prevents unwanted changes.

Because of the Mira 340's sequential processing, the operator can prepare several processing steps that are executed in a single run. Intermediate adjustments are unnecessary. Stripping of the jacket, stripping and twisting of the inner conductors of a multi-core cable, and stripping of multi-layer insulations are all possible. The barcode scanning speeds up data entry. Using a barcode reader the article number can be imported automatically and error-free.

Mira 340 features a quick mode. By switching off the rotation, the wire stripper becomes as fast as a V-blade machine. An integrated air jet cleans the blades automatically and quickly to prevent operator interference.

Cutting-edge ergonomic design and user-friendly interface

A high-resolution touch screen in smartphone format provides quick access to all of the machine's features. Supported by a dial and help texts, the intuitive user interface is fun to use and simplifies training. The user interface, including hint texts, is provided in a variety of languages, so operators with different preferred languages can use the same machine.

The comfortable wrist cushion enables a relaxed working posture. A well-designed LED lighting illuminates the working area for a better visibility. Because the safety cover can be quickly removed without tools, cleaning and maintenance is much faster and easier. All of the important items like small tools or spare blades are within easy reach in the integrated accessories drawer. An ergonomic handle makes the compact wire stripper Mira 340 highly handy and portable.

01
Article selection via the barcode scanning saves time.
02
Intuitive user interface: Set the processing parameters in just a few steps.
03
Processing of a large span of leads and demanding insulation like tough Teflon®, pliable silicon and braided fibers (from left to right).

01
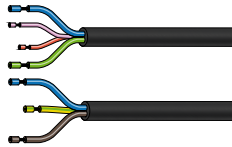
02

03

Processing examples and functions

Full stripping		Multi-conductor cables – full stripping	
Half stripping		Multi-conductor cables – half stripping	
Multi-step stripping		Multi-conductor cables – various cross-sections, stripping lengths and core length, in sequences with multi-trigger setting	
Shortening, trimming wires			
Offset pull-off with pre-pull-off			
Wayback for pull-off		Multi-layer cables – stripping in sequences and in single trigger setting	
Cleaning cut		Twist strands	

The rotary incision with 4X-blades (below) achieves a higher cutting ratio and a smoother surface than a V-blade incision (above).

Technical data

Conductor cross section (stripping)	0.013 – 16 mm^2 (AWG 36 – 5[1])
Conductor cross section (twisting)	0.14 – 2.5 mm^2 (AWG 26 – 13)
Max. conductor cross section for cutting	2 mm^2 (AWG 14 / OD 1.6 mm)
Max. outer diameter (OD)	8 mm (0.315 in.)
Strip length (StrL)	OD ≤ 7.5 mm (0.29 in.) 0.01 – 72 mm (0.0004 – 2.8 in.) OD 7.5 – 8 mm (0.29 in. – 0.31 in.) 0.01 – 50.8 mm (0.0004 – 2 in.)
Strip length with cutting and single trigger mode	32 mm (1.26 in.) - CL
Cut length (CL)	32 mm (1.26 in.) - StrL
Pull-off length	0.01 – 32 mm (0.0004 – 1.26 in.)
Increment for incision diameter	0.01 mm (0.0004 in.)
Increment for strip length	0.1 mm (0.004 in.)
Min. insertion depth	12 mm (0.47 in.)
Gripper force	programmable
Blade type	Rotary 4X-blades
Trigger	Sensor, touchscreen, optional foot pedal
Data interface	USB port for data backup, barcode scanner
Article library: Max. number of articles	3000
Sequence function: Max. number of steps	100
Sequence library: Max. number of entries	1000
Typical cycle time	~ 2.3 s
Electrical connection	50/60 Hz, 100 – 240 V AC, < 120 VA
Compressed air connection (air jet for cleaning)	5 – 7 bar
User interface	5" color touch screen, multi-touch function + dial
Switch-on time from standby mode	< 1 s
Ambient temperature for operation	5 – 40 °C
Dimensions (W × H × D)	141 × 290 × 473 mm (5.6 × 11.4 × 18.6 in.)
Weight	11 kg (24 lbs.)
CE conformity	Conforms to the CE directives on machine safety and electromagnetic compatibility.

[1] We recommend using sampling for wires that are difficult to process and wires at the limits of the specifications.

Options and accessories

V-shaped diamond coated grippers	Prevents rotation of the wire in the gripper
Flat diamond coated grippers	Non marking, e.g. for halogen free leads
Flat thin diamond coated grippers	For shorter inner wires in multi-core cables Breakout length: StrL + 8 mm (0.31 in.)
Wire feeding guide and holder	For wire diameters from 0.5 to 3 mm (0.02 – 0.12 in.)
Foot pedal switch Mira	Instead of using the cable trigger sensor

Komax – leading the field now and in the future

As a pioneer and market leader in the field of automated wire processing, Komax provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax manufactures series and customer-specific machinery for various industries, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent networking solutions complete the portfolio, and ensure safe and efficient production.
Komax is a globally active Swiss company with development and production facilities on several continents. Komax uses its extensive distribution and service network, which includes local companies and their employees, to support customers across the world on site, thus ensuring the availability and value of their investments after equipment commissioning through standardized service processes.

40 YEARS CUTTING EDGE

Market segments

Komax offers outstanding competence and solutions for various areas of application and draws on them to generate the desired value-added for the entire process and optimize economic efficiency in line with customer requirements. The main markets of Komax are as follows: automotive, aerospace, industrial and telecom & datacom. With this breadth of experience, customers obtain expert knowledge for process optimization and access to the latest technologies.

Komax AG
Industriestrasse 6
6036 Dierikon, Switzerland
Phone +41 41 455 04 55
Fax +41 41 450 15 79

komax
komaxgroup.com

0371451 V3 Mira 340
Subject to change