

MTX

MULTI-TASK
WIRE PROCESSORS

ARTOS
ENGINEERING COMPANY



MTX SERIES 10



THE MTX SERIES 10: MOR

The **MTX Series 10** is the latest member of the Artos family of fully programmable, multi-task wire processors.

By extending each swing arm on our base model, Artos has made room for a fourth processing station on each side of the worktable. This design enhancement allows for a total of eight possible processing steps on each end of your wire – an incredible achievement in automated wire processing.

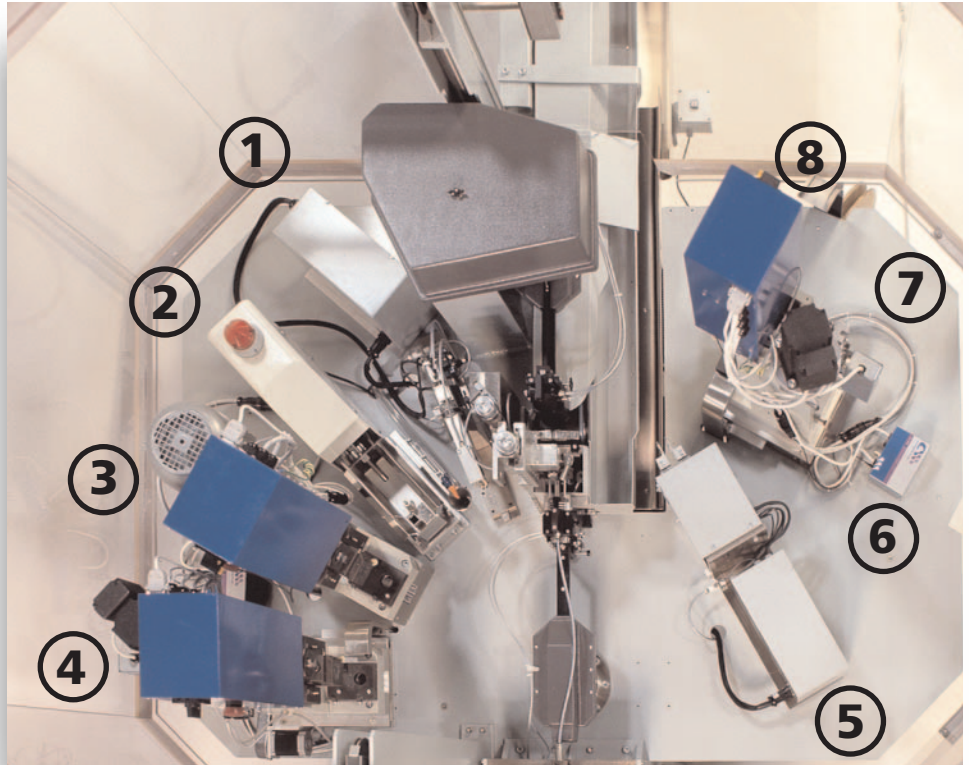
Whatever processing stations you choose, Artos will custom design a Series 10 model to take on your toughest applications with precision, speed and power:

■ Inside each MTX, six high-performance, brushless servo motors help deliver wire to your various processing stations quickly and efficiently for cycle speeds of up to 4500 pieces per hour.

■ “Closed-loop” encoders communicate back to the motors to verify all operations, assuring quality operation.

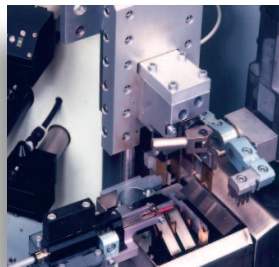
■ Two swing arms automatically move into optimum reference position at the various stations for insertion, rotation and height.

■ And the unit’s ball-screw driven cutterhead cuts and strips wire with optimum precision and provides years of reliability.



Up to four processing stations are possible on each side of the Series 10 worktable. Shown here are: 1) Twisting 2) Flux & Tin 3) Standard Press 4) Servo Press 5) Doubler 6) Servo Press 7) Open 8) Open.

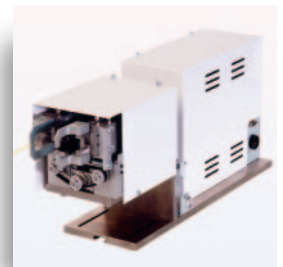
MTX PROCESS STATION OPTIONS



Laser Stripping Station



Wire Twisting Station



Doubler Station

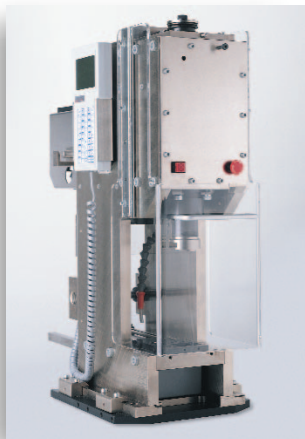
The **MTX Series 10** is ideal for:

1. “Harness Shops” – who need one machine that can do the work of two, processing multiple applications at low lot sizes.
2. High-volume operations – where users want to set up multiple jobs at once and batch changeovers together for improved efficiency.

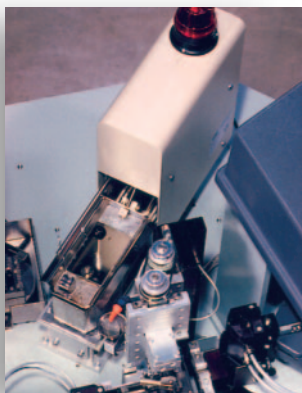
3. Machine integrators – who want to interface different devices together for highly specialized processing.

No other processor on the market offers more flexibility on such a wide range of wires than the MTX Series 10. And no other company is as committed to delivering value than Artos Engineering.

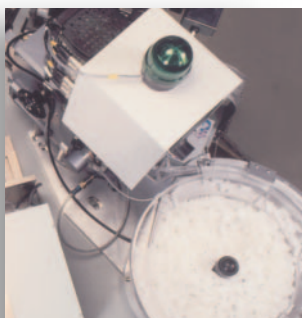
E OPTIONS... MORE VALUE.



Programmable Terminating Station



Wire Tinning Station



Boot Insertion Station

Other Station Options (Not Pictured)

- Loose Piece Seal Station
- Wire Trimming Station
- Sleeve Insertion Station
- Ultrasonic Welding
- Specialty Stripping and Slitting Devices
- Heat Shrink Applications
- Ignition Wire Applications

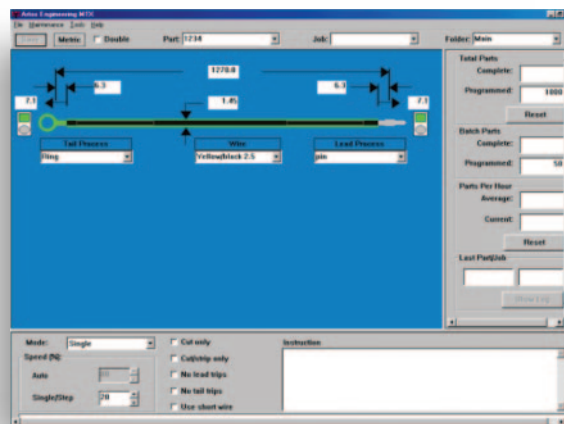
MINIMAL SET-UP AND CHANGEOVER TIME

Because the MTX is fully programmable and automated, it is no longer necessary to manually position your wires to terminal applicators. As a result, both the set-up and changeover process are faster and more precise.

- Programmable settings for wire length, wire diameter, strip lengths, and end of core position eliminate manual adjustments.
- End of core positions can be determined either through a motorized jog feature or through a unique self-learning process that allows the user to manually teach the desired processing positions.
- Wire loading is simplified through the self-threading feature.
- Wire guides and blade assemblies are easily changed without tools.
- Use of Artos' Patented Universal stripping blade allows for processing of the complete wire range without changing blades.

FAST, EFFICIENT FILE SHARING WITH GLOBAL DATABASE SOFTWARE

If you're dealing with multiple MTX or STX processors configured within a network, it's possible to share wire data and programs locally or even globally using our revolutionary Global Database software. Thanks to Artos, now there's no need to duplicate set-up procedures from one machine to the next. To further reduce your programming time, simple text files can also be converted to machine programs allowing for quick importation of wire data from other documents and resources. Of course, this powerful, time-saving software can be password protected, allowing you to define authorized programmers and operators.



User-friendly operation – Graphic displays on our Windows® or NT based software make the MTX Series 10 easy to program and operate.



Optional PC Positioning – Customers can order their Series 10 with the operator station at the infeed or outfeed side of the machine. It's your choice depending on applications or simple preference.

MTX

MTX SERIES 10 SPECIFICATIONS

Wire Sizes –

0,22 to 6mm² (24 to 10 AWG)
Other sizes are possible
depending on wire type

Wire Lengths –

51mm to 100M (2" to 325")
Shorter wires are possible with
special tooling

Strip Lengths –

0 to 16mm (0 to 0.630")
Longer strip lengths are
possible with additional tooling

Electrical Requirement –

208 to 480 Volt, 3 Phase,
50 or 60 Hz

Air Requirement –

2.4 l/sec. @ 6 Bar (5 CFM @ 80 PSI)

Production Speeds –

Will vary depending upon
application

Dimensions (LxWxH) –

w/2M Collector: 4030mm x
2050mm x 1840mm
(159 in x 81 in x 73 in.)

Height with guard open:

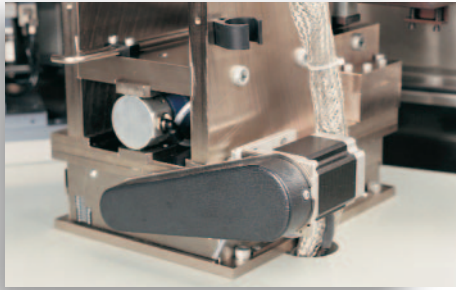
2900mm (114 in.)

Shipping Weight –

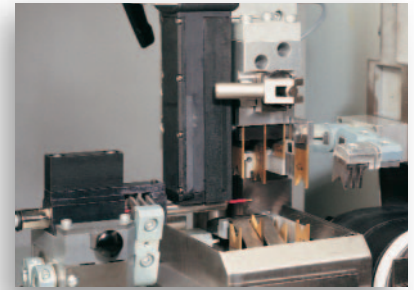
MTX 10 w/2M Collector:
2500kg (4500 lbs.)

Note: Specifications are
subject to change without
notice, and exceptions may
apply depending on
application, wire and other
variables. Optional equipment
may require standard machine
modification and/or later
specifications.

MTX GENERAL OPTIONS



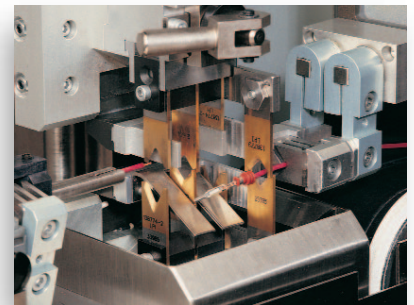
Programmable Termination Base Height Adjustment and Pneumatic Tonking Unit –
Make it possible to automatically change
from open to closed barrel terminals.



Integrated Ink-Jet Marking – Can be
programmed through the MTX operator
screen, allowing markings to be included
in part programs.



Modular Collection Systems – Wire Collector
with batch sorter provides continuous operation
during batch processing. Two (2) and Four (4)
meter collectors are available for longer lengths.
Additional units may be added.



Bad Wire Chop-Off and Reject –
Bad wires are made unusable and can be
collected separately from good parts.

Other Options

- Terminal Run-Out Detection Device
- Seal Placement Detection Device
- Programmable Crimp Force Monitor
- CFM Diagnostic Software with SPC Output
- Programmable Crimp Height Adjustment
- Programmable Feed Belt Pressure Setting
- Programmable Gripper Pressure Setting
- Paper Take-Up Device
- Terminal Scrap Collection Device

SUPPORT SERVICES

Artos' group of experienced engineers can help custom design a MTX Series 10 machine to meet your wire processing requirements. From making simple modifications to a single unit to networking several machines in your production line, you can rely on our experts to help you operate with greater efficiency and improved productivity. But our services aren't limited solely to design. We can support you with field installation and start-up ... and also arrange for ongoing technical support and maintenance as required.

