M700TW
(AR3500)

OVERVIEW

The **M700 Tube and Wire Module (M700TW)** utilizes a pneumatic powered guillotine style cutter which can cut various sizes of both tubing and wire. The M700TW can be connected directly to the Control Module or to a Control/Feeder setup for automated material processing.

TECHNICAL DATA

Material Specifications:*
Minimum material size: 1/64" (0.4mm) OD
Maximum tube size: 3/8" (9.5mm) OD
Maximum wire conductor size: 10AWG (2.59mm) stranded copper; 12AWG (2.05mm) solid copper
Minimum cut length: 0.100" (.254cm)
Maximum cut length: 99,999.0 (in or cm)
Maximum programmable quantity: 99,999 pieces

Cut Tolerances:*
Material Length
Under 2" (5.08cm): ±0.010 (±0.025cm)
Over 2" (5.08cm): ±1%
Squareness of Cut: ±2°

** Specification is material dependent and/or dependent on de-reeling system*

Air Supply (Required):
90PSI (6.2bar)

Module Dimensions (L x W x H):
16" x 7.25" x 8"
(40.64cm x 18.42cm x 20.32cm)

Module Weight:
17.5lb (7.9kg)

PERFORMANCE

Supported Modes
Continuous Mode
Single Piece Flow Mode

Jobs/Batches:
Up to 100 programmable Jobs;
1-20 Batches per Job

Feed Parameters:
Feed Rates: 10 selectable rates (0-9)

POWER
Voltage supplied by the Control Module

REQUIRED PARTS
Custom Bushings: (Material sample is required to properly size bushings)

OPTIONAL PARTS
Tube Cutting Blade: IR5218
Carbide Blade: IR5162
Material Length Stop: IR3324

REPLACEMENT PARTS
Wire Cutting Blade (standard): IR5161

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M700TW Tube and Wire Module

BUSHING INSTALLATION

1. Turn off machine and disconnect from power supply and airline.
2. If necessary, decouple the TW Module from the system.
3. Choose the proper size bushing set for the material to be processed.
4. To install the cut bushing, slide the bushing from left to right into the upstream cut bushing block with the bushing chamfer facing toward the Control Module. Ensure the bushing is fully inserted and pressed against the TW cutting blade, and then tighten the set screw.

MODULE ASSEMBLY

1. Turn off machine and disconnect from power supply and airline.
2. Open the clamping latch on the backside of the upstream module (either the Control or Feeder Module) by first loosening the thumb screw and then pulling the latch out and away from the module.
3. Align the TW Module's upstream interface connection (alignment pins and electrical connector) with the upstream module's downstream interface connection, and gently slide the TW into the upstream module so that it just begins to engage.
4. On the backside of the upstream module, push the clamping latch back in toward the module and it will draw the TW Module into the upstream module.
5. Once the clamping latch is in the closed position, fasten the clamping latch's thumb screw to the rear panel of the module.
6. Install the Endcap into the TW Module's downstream interface connection using the same technique. Note: The Endcap (supplied with the M700C) must always be installed into the last connected module's downstream interface connection.

NOTE: All doors must be closed and the downstream Endcap installed for the system to function.

BLADE REPLACEMENT

1. Turn off machine and disconnect from power supply and airline.
2. If necessary, decouple the TW Module from the system.
3. Remove the cut bushing.
4. Through the access port on the upstream side, loosen and remove the visible hex head pin using the supplied 7/16" nut driver.
5. Open the module door and slide the blade out of blade holder from the front.
6. Replace blade with a new standard wire blade (or optional blade). Note: With the bushing removed, the blade should be slightly visible when looking through the cut bushing block, so as to act as a stop when the bushing is inserted.
7. Reinstall the hex head pin with nut driver.

NOTE: The wire blade may be used for cutting tubing but the tube blade should never be used for cutting wire. Using the tube blade for cutting wire will cause immediate damage to the blade.

CAUTION: When handling or removing a cutting blade, be aware that it is extremely sharp and can cause serious injury if improperly handled.