

Machine Model	AFT-2D8	AFT-3D8	AFT-2D12	AFT-3D12	AFT-2D16	AFT-3D16
Wire Diameter Range (Millimeters)	2mm - 8mm	2mm - 8mm	2mm - 12mm	2mm - 12mm	*4mm - 16mm	*4mm - 16mm
Wire Diameter Range (Inches)	0.080" - 0.313"	0.080" - 0.313"	0.080" - 0.472"	0.080" - 0.472"	0.160" - 0.550"	0.160" - 0.550"
Max. Wire Tensile At Max. Wire Diameter	700 N/mm <sup>2</sup>	700 N/mm <sup>2</sup>	550 N/mm <sup>2</sup>	550 N/mm <sup>2</sup>	625 N/mm <sup>2</sup>	625 N/mm <sup>2</sup>
——"—— (kPSI)	100 kPSI	100 kPSI	80 kPSI	80 kPSI	80 kPSI	80 kPSI

### Performance Specifications

#### Feeder Axis #1 (optional)

Wire Feed Resolution (Millimeters)	+/- 0.006mm					
Wire Feed Resolution (Inches)	0.0002"	0.0002"	0.0002"	0.0002"	0.0002"	0.0002"
Max wire feed speed (Meters)	15 m/min					
Max wire feed speed (Feet)	50' f/min					

#### Bender Axis #2

Bender Resolution	0.0005°	0.0005°	0.0005°	0.0005°	0.0005°	0.0005°
Max Bender speed	600°/sec	600°/sec	450°/sec	450°/sec	300°/sec	300°/sec
Max Bender angle	+/- 200°	+/- 200°	+/- 200°	+/- 200°	+/- 200°	+/- 200°

#### Rotation Axis #3 (optional)

Max Z-Axis speed	N/A	600°/Sec	N/A	600°/Sec	N/A	600°/Sec
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#### Set-Up Time

Same Wire Diameter	30 seconds					
Change Bending tools	5 minutes					

#### Power Consumption, Electrical & Air Requirements

Average Power Consumption (KW/h)**	1.6	1.9	2.0	2.0	2.5	2.5
Electrical requirement 50/60Hz 220V	1 phase	1 phase	1 phase	1 phase	1 phase	3 phase
Installed Power	3KVA	5KVA	6KVA	7KVA	7KVA	8KVA
Air requirements	100 PSI @ 2 SCFM - all models					

#### Dimensions & Weight (Machine weight only / not for shipping) Please call AIM for all other models & configurations

Width, Depth & Height (meters)	1.5m x 800mm x 1.2m					
——"—— (Inches)	59" x 32" x 48"					
Gross weight (Kg)	220 Kg	265 Kg	318 Kg	375 Kg	420 Kg	490 Kg
Gross weight (Lbs)	500 Lbs	600 Lbs	700 Lbs	850 Lbs	950 Lbs	1100 Lbs

\* Machines can form wire down to 2mm with additional tooling  
 \*\* Power Consumption Data is measured on average production.

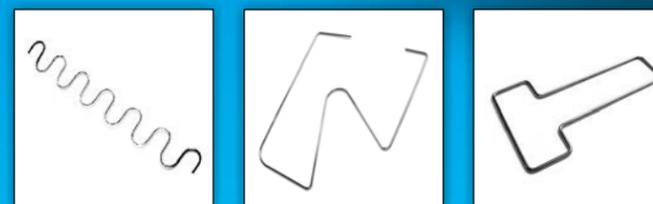
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AFTx  
 AFT-2DxH  
 AFT-2DxV  
 AFT-3Dx

ACCUFORM T-SERIES  
 VALUE IN CNC WIRE BENDING



AFT shown without safety barrier for display purposes.

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WWW.AIMMACHINES.COM



JATAS Machinery Sales Inc.  
 503 Frontage Ave. W  
 Underwood, MN 56586  
 218-826-6464  
 Cell: 218-929-1577 - Tony Heck



Automated Industrial Machinery, Inc.

# AccuFORM T-SERIES

AIM Inc. has released an exciting wire and tube industry innovation:

An intelligent CNC tabletop bender that replaces manual pneumatic or hydraulic table benders. The AccuForm "T" line of programmable CNC bending machinery are capable of producing two dimensional (2D) wire forms with optional expansion to three dimensional (3D) parts. There are three general models: the AFT-8 handles wire or tube up to 8mm diameter, the AFT-12 up to 12mm diameter, and the AFT-16 up to 16mm diameter.

Base configured models are fed manually with pre-cut wire and/or tube. **SmartEditor**, AIM Inc.'s exclusive machine programming environment provides unprecedented flexibility and ease of use. AIM-Modular Ready™ allows for the expansion of the base AFT unit with:

- 1) Feeder mechanism or programmable stop option for automatic feed-bend sequencing
- 2) Three dimensional clamp rotation mounted on the feeder mechanism to make 3D parts
- 3) Hopper-Feeder for automatic wire supply

**SmartEditor** integrates all of the above option modules with minimal configuration time and complete programmability.

A fully accessorized AFT machine can offer automated feeder, 3D clamp rotation, and hopper-feeder units providing a turnkey manufacturing operation, allowing the shop owner to regain the capital investment quickly.

AFTx  
AFT-2DxH  
AFT-2DxV  
AFT-3Dx

3D Vertical Configuration  
AFT-3Dx



AFT shown without safety barrier for display purposes.



Horizontal Configuration  
AFT-2Dx

Machines shown without a safety barrier. Please consult your local safety authorities for safety requirements

## CUSTOMER SUPPORT

AIM Inc.'s standard interface allows existing AIM Inc. machinery owners connectivity and provides a total programmable solution, including automating secondary operations.

**SmartEditor** currently supports multiple languages including English, Spanish, Polish, Czech, Portuguese, and Italian. More languages will be available in the near future as part of AIM's outstanding customer support benefit.



AIM Inc.'s Industry Leading Control Module



2D Horizontal Configuration  
AFTx

## FEATURES & BENEFITS

### Basic Bender Unit:

Consisting of a bender disk mounted on a steel table and a control panel, the bender axis can accommodate a variety of tooling configurations. The bending axis can perform as a pin or mandrel providing great versatility. Highest quality servo system connecting directly to the bender axis makes for a compact and robust axis with minimal service needs. Bending speeds exceed 200 degrees per second and are fully **SmartEditor** programmable. The AFT machine's advanced technology supported by the brushless servo system allows for exceptional accuracy and repeatability.

### Table Top

The AFT table-top consists of a ground steel table with multiple threaded locations for easy tool mounting. The table dimensions are 1m X 2m (3' X 6') and accommodate most wire or tube bending application requirements.

The table can easily expand on the top, bottom, and right sides in order to accommodate large wire or tube forms. The optional expansion table accessories are in stock and ready for quick availability out of AIM Inc.'s North American and European manufacturing locations.

### HMI Computer

**SmartEditor** has a Multi-Language interface with a 15" TFT LCD touch-screen running on a state of the art industrial PC. The AFT series machines provide unsurpassed flexibility and ease of use. All steps and speeds are programmable with password control for security.

The AFT machine features 250,000 programming steps and is able to store over 800 million individual programs. Microsoft XP Professional® operating system with a complete networking interface, are standard features.

### Setup & Programming:

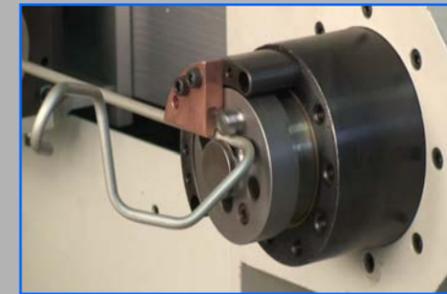
Setup and programming are accompanied with easy teach mode or by entering actual feed/bend positions. User has a choice of foot-pedal step increment or timed increment with the use of an optional material feeder. A variety of part shapes require only entering wire lengths, rotations, and angles (depending on machine accessories utilized).

The industrial PC's hard disk allows part program storage or the User can utilize the network interface and store on a network drive, making part program recall a snap.

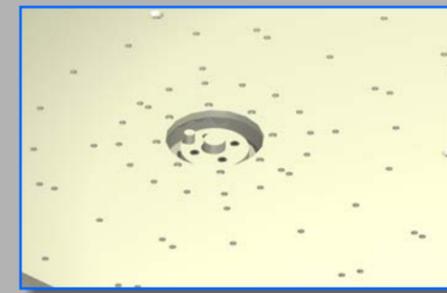
'Dial-A-Service' allows remote access to any AIM Inc. machine worldwide via the Internet completing diagnostics and troubleshooting within minutes.



Simple Programming Interface. **SmartEditor** common programming for all AIM equipment



Simple Tooling for Wire or Tube Configuration



Flexible Table Tooling Configuration



Adjustable Bender Height

