

Machine Model	AFM-2D6-T	AFM-2D8-T	AFM-2D10-T	AFM-2D12-T	AFM-2D14-T	AFM-2D16	AFM-2D16-T
Wire Diameter Range (Millimeters)	2mm - 6.4mm	2mm - 8mm	*4mm - 10mm	*4mm - 12mm	*4mm - 14mm	6mm - 16mm	6mm - 16mm
Wire Diameter Range (Inches)	0.080" - 0.250"	0.080" - 0.310"	0.160" - 0.390"	0.160" - 0.472"	0.160" - 0.550"	0.250" - 0.630"	0.250" - 0.630"
Max. Wire Tensile At Max. Wire Diameter	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>
——#—— (kPSI)	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI

## Performance Specifications

### Feeder Axis #1

Wire Feed Resolution (Millimeters)	+/- 0.006mm	+/- 0.006mm	+/- 0.006mm	+/- 0.006mm	+/- 0.006mm	+/- 0.006mm	+/- 0.006mm
Wire Feed Resolution (Inches)	0.0002"	0.0002"	0.0002"	0.0002"	0.0002"	0.0002"	0.0002"
Max wire feed speed (Meters)	120 m/min	120 m/min	120 m/min	120 m/min	85 m/min	80 m/min	80 m/min
Max wire feed speed (Feet)	394' f/min	394' f/min	394' f/min	394' f/min	280' f/min	262' f/min	262' f/min

### Bender Axis #2

Bender Resolution	0.0005°	0.0005°	0.0005°	0.0005°	0.0005°	0.0005°	0.0005°
Max Bender speed	1100°/sec	1100°/sec	1100°/sec	1100°/sec	1000°/sec	950°/sec	950°/sec
Max Bender angle	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	+/- 200°	Unlimited

### Turret Axis #4

Turret Axis ToolChange time	300 mSec	300 mSec	350 mSec	350 mSec	350 mSec	400 mSec	400 mSec
-----------------------------	----------	----------	----------	----------	----------	----------	----------

### Set-Up Time

Same Wire Diameter	1 minute	1 minute	1 minute	1 minute	1 minute	1 minute	1 minute
Change feeder rollers & Bending tools	15 minutes	15 minutes	15 minutes	15 minutes	15 minutes	20 minutes	30 minutes

### Power Consumption, Electrical & Air Requirements

Average Power Consumption (KW/h)**	2.0	2.0	2.4	2.6	2.6	3.7	3.7
Electrical requirement	50/60 Hz	400V or 460V, 3 phase - all models***					
Installed Power	40KVA	42KVA	46KVA	50KVA	50KVA	82KVA	82KVA
Air requirements	100 PSI @ 2 SCFM - all models						

### Dimensions & Weight (Machine weight only / not for shipping)

Width, Depth & Height (meters)	3.5 x 2.13 x 2.03	3.5 x 2.13 x 2.03	3.5 x 2.13 x 2.03	3.5 x 2.13 x 2.03	3.5 x 2.13 x 2.03	4.16 x 2.03 x 2.03	4.16 x 2.03 x 2.03
——#—— (Inches)	140" x 84" x 80"	140" x 84" x 80"	140" x 84" x 80"	140" x 84" x 80"	140" x 84" x 80"	164" x 80" x 80"	164" x 80" x 80"
Gross weight (Kg)	2359 Kg	2359 Kg	2495 Kg	2495 Kg	2495 Kg	4082 Kg	4082 Kg
Gross weight (Lbs)	5200 Lbs	5200 Lbs	5500 Lbs	5500 Lbs	5500 Lbs	9000 Lbs	9000 Lbs

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

Automated Industrial Machinery, Inc. ©2007  
 The Manufacturer Reserves the right to alter any data and/or photos provided in this brochure without notice.

Call Us for a FREE DVD video, brochures, samples and production rates along with a complete statistical analysis of your production.

Call us for free with Skype  
 SKYPE id: aimincusa or aimeuropesa

# ACCUFORM MODULAR

## PERFORMANCE IN CNC WIRE BENDING

AFM-2D6-T  
 AFM-2D8-T  
 AFM-2D10-T  
 AFM-2D12-T  
 AFM-2D14-T  
 AFM-2D16  
 AFM-2D16-T



FORMING OUR FUTURE WITH YOURS

WWW.AIMMACHINES.COM

**AIM inc**<sup>®</sup>  
**Automated Industrial Machinery, Inc.**  
 502 S. Vista Avenue, Addison IL 60101-4423, U.S.A.  
 Phone: +1(630)458-0008 Fax: +1(630)458-0730  
 e-mail: sales@aimmachines.com

**AIM in Europe**  
 68th Km N. Rd Athens - Lamia, Paleohori  
 P.O. Box 36, 32 009, GREECE  
 Phone: +30 226 205 8900 Fax: +30 22620 59231  
 e-mail: sales@aimeuropesa.com  
 www.aimeuropesa.com



**Automated Industrial Machinery, Inc.**



# AccuFORM MODULAR

## FEATURES & BENEFITS

- Concurrent Operations: Dual processor allows programming a part while running production
- Production Statistics for cost estimating & scheduling
- 2D/3D DXF file import & optional 3D Step file import
- Animation / Bending simulation allows you to see programmed moves before running production
- Remote, off-line programming with stand-alone software or through installed network card
- Color touch screen monitor and industrial grade sealed keyboard for data entry
- Simple programming with Windows XP Pro® based operating system
- Exceptional accuracy and repeatability
- Sealed, oversize bearings for low maintenance operation over time
- Wire fed directly from coil
- A variety of servo drive options for combinations of faster feed and bending speeds.
- Double acting hydraulic cutting system for high tensile wire.
- One keystroke transition between metric and English units of measure
- Video camera for machine monitoring or videoconferencing
- Merge individual part programs for production of complete assemblies or program to make alternating parts
- Programmable delay or hold functions to match downstream operations in work cells
- Spiral software function allows user to define any spiral with just three numbers
- Easily accessible tooling for minimal setup and changeover time
- Hardened and ground tool steel moving parts for exceptional wear and tool life
- I/O's for interconnection of auxiliary equipment such as robotics, threaders, & inspection devices
- Highest overall production speeds in the industry
- Parallel, Serial, Ethernet & USB ports
- Two bending head choices: Single stage or Turret Head indexing tool changer are available
- Table tilts to any angle from horizontal to vertical
- Temperature controlled electronics cabinets with washable filters

- AFM-2D6-T
- AFM-2D8-T
- AFM-2D10-T
- AFM-2D12-T
- AFM-2D14-T
- AFM-2D16
- AFM-2D16-T



\*Shown here with optional Welder AW-1



### MODULAR CONSTRUCTION

Modular frame construction provides the most flexible, versatile 2D machines in the market today. This method of assembly allows for quicker response to short lead-time delivery requests and helps hold down costs for a new machine.

### EXPANDABILITY

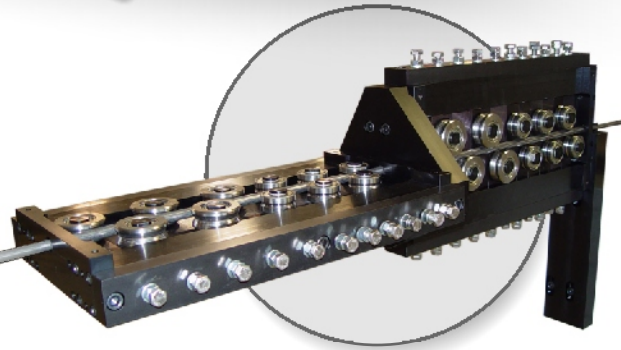
All AFM-2D machines have a standard bend back clearance to form 48" frames without interference. Using a modular construction machine, bends can be easily extended to produce 72" frames at time of order or after the machine has been installed.

### UPGRADABILITY

2D machines can be upgraded to 3D machines...IN THE FIELD ...by simply trading in the 2D bender module for a 3D bender module and moving the location of the computer. Now you can change from 2D bending to 3D bending when demand justifies the capital expenditure.

### VERSATILITY

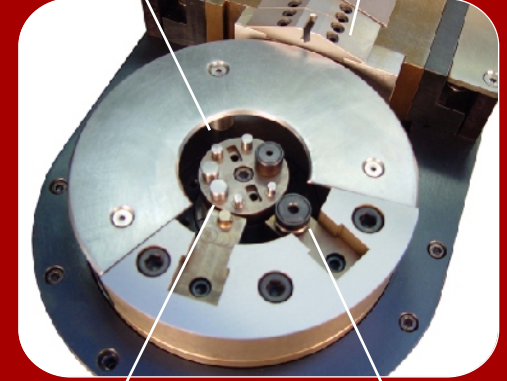
Adding modules for inline secondary operations such as chamfering, threading, and flattening can extend the versatility of your AccuForm AFM-2D machine.



Dual Size Straightener Rollers for Wide Range of Wire Diameters

## TURRET HEAD Indexing Tool Changer

Replaceable Bending Mandrels  
Dual Acting, Hydraulic Wire Cutter

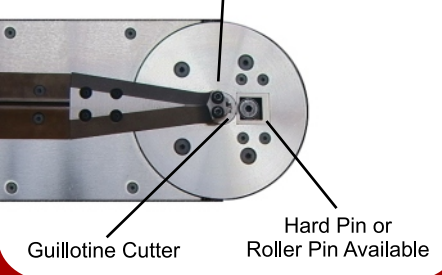


Programmable Hard Bending Pin  
Programmable Roller Bending Pin

Turret head machines offer two programmable bending pins. The **Hard Bending Pin** is used to form intricate bends and long running jobs, where tool wear may become an issue. The **Roller Pin** is used to produce arcs that need to be generated, with minimal marks on the wire. The tool cluster is the "heart" of the bender containing round pins, a roller and sharp bend dies. This variety allows the use of one tool set to accomplish many styles of bends; including a "press brake" style bend, when the radii of the bends are significantly less than the wire diameter. When the bending pins and tool cluster are coupled together they provide the user with up to **8 tooling combinations**. The hydraulic cutter (dual acting) produces burr free square cuts and delivers a "zero length" cutoff.

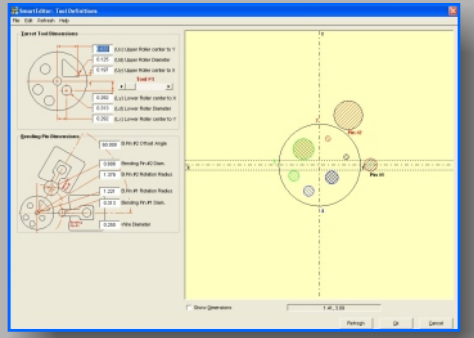
## Non-Turret Configuration

Sharp Die or Roller Configuration Possible

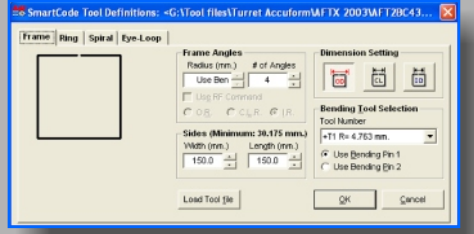


Guillotine Cutter  
Hard Pin or Roller Pin Available

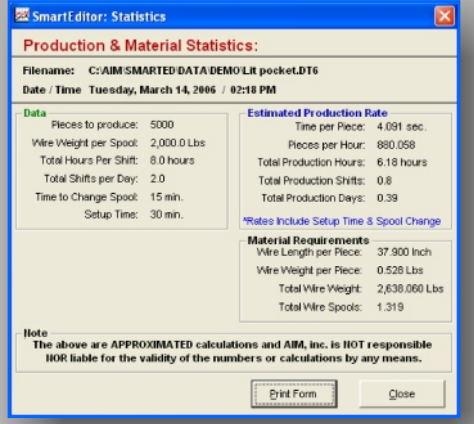
The Non-Turret configuration is the Original Bending Head and has been tried and tested in the field for more than a decade. Although it lacks the flexibility of the Turret Head it gains an advantage of cutting and forming in the same area without indexing the tools. This characteristic reflects less time to make a part, leading to a higher production rate. The cutting unit for this head is also powered by a robust hydraulic unit.



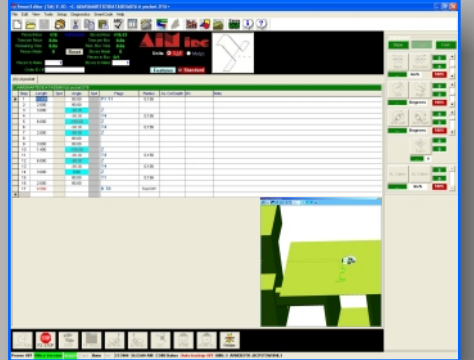
Graphic Representation of Installed Tools on Machine



SmartCode for Automatic Programming of frames, eye loops, rings & spirals



Instant Production Estimates and Material Consumption



Simple Programming Interface. SmartEditor® helps figure out machine movements. User only needs to add feed length, bend angle, radius size & tool configuration

