Machine Model	AFM-3D6-T	AFM-3D8-T	AFM-3D10-T	AFM-3D12-T	AFM-3D13-T	AFM-3D14-T	AFM-3D16-T
Wire Diameter Range (Millimeters)	2mm - 6.4mm	2mm - 8mm	*4mm - 10mm	*4mm - 12mm	*5mm - 13mm	6mm - 14mm	6mm - 16mm
Wire Diameter Range (Inches)	0.080"- 0.250"	0.080"- 0.313"	0.160"- 0.394"	0.160"- 0.472"	0.197"- 0.500"	0.160"- 0.550"	0.250"- 0.630"
Max. Wire Tensile At Max. Wire Diamete	er 620 N/mm²	620 N/mm <sup>2</sup>					
———— (kPSI)	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI	90 kPSI
Performance Specif	fications						
Feeder Axis #1							
Wire Feed Resolution (Millimeters)	<0.0001mm	<0.0001mm	<0.0001mm	<0.0001mm	<0.0001mm	<0.0001mm	<0.0001mm
Wire Feed Resolution (Inches)	<0.00001"	<0.00001"	<0.00001"	<0,00001"	<0.00001"	<0.00001"	<0.00001"
Max wire feed speed (Meters)	156 m/min	152 m/min	149 m/min	145 m/min	138 m/min	137 m/min	135 m/min
Max wire feed speed (Feet)	511' f/min	506' f/min	488' f/min	475' f/min	452' f/min	451' f/min	442' f/min
Bender Axis #2							
Bender Resolution	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°
Max Bender speed	2500°/sec	2500°/sec	1200°/sec	1200°/sec	1200°/sec	1125°/sec	1125°/sec
Max Bender angle	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Wax berider drigie	Or illi Till Ca	Or IIII T III C C	or initial co	Or militario Ca	Orim rinica	Or III TIII CO	or illi i illica
Z-Axis #3							
Z-Axis Resolution	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°	<0.0001°
Max Z-Axis speed	720°/sec	720°/sec	720°/sec	720°/sec	720°/sec	480°/sec	480°/sec
Max Z-Axis rotation	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Turret Axis #4							
Turret Axis ToolChange time	250 mSec	250 mSec	250 mSec	250 mSec	250 mSec	250 mSec	250 mSec
Tuliel Aug Toole harige little	200111060	200 111060	20011060	200 111060	20011060	200 111060	200 111000
Set-Up Time							
Same Wire Diameter	1 minute	1 minute	1 minute	1 minute	1 minute	1 minute	1 minute
Change feeder rollers & Bending to	ools 8 minutes	8 minutes	8 minutes	8 minutes	8 minutes	8 minutes	30 minutes
Power Consumption, El	ectrical & A	ir Paguirama	nte				
Average Power Consumption (KW/h)		2	2.4	2.6	2.6	2.6	3.7
Electrical requirement	, –	<del>-</del>	60V, 3 phase - all ma		2.0	2.0	0.7
Installed Power	49KVA	49KVA	52KVA	55KVA	75KVA	78KVA	101KVA
Air requirements		100 PSI @ 2 SCFM - c	<del></del>	JORVA	7 ORVA	7011	TOTRVA
Dimensions & Weight (	Machine weight	only / not for shipp	ping)				
Width, Depth & Height (meters)	2.59 x 2.08 x 2.13	2.59 x 2.08 x 2.13	2.59 x 2.08 x 2.13	2.59 x 2.08 x 2.13	3.05 x 2.08 x 2.13	3.05 x 2.08 x 2.13	3.56 x 2.2 x 2.13
———— (inches)	102" x 82" x 84"	102" x 82" x 84"	102" x 82" x 84"	102" x 82" x 84"	120" x 82" x 84"	120" x 82" x 84"	140" x 90" x 84"
Gross weight (Kg)	4100 Kg	4196 Kg	4276 Kg	4354 Kg	5300 Kg	6300 Kg	6804 Kg

Width, Depth & Height (meters)		2.59 x 2.08 x 2.13	3.05 x 2.08 x 2.13	3.05 x 2.08 x 2.13	3.56 x 2.2 x 2.13				
_	<i>II</i>	(inches)	102" x 82" x 84"	120" x 82" x 84"	120" x 82" x 84"	140" x 90" x 84"			
Gross v	weight (Kg)		4100 Kg	4196 Kg	4276 Kg	4354 Kg	5300 Kg	6300 Kg	6804 Kg
Gross v	weight (Lbs)		9040 Lbs	9250 Lbs	9410 Lbs	9600 Lbs	11690 Lbs	13876 Lbs	15000 Lbs

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

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FORMING OUR FUTURE WITH YOURS



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AFM-3D shown without safety barrier for display purposes.



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# ACCUFORM

### **FEATURES & BENEFITS**

- Concurrent Operations: Dual processor allows programming a part while running production
- Production Statistics for cost estimating & scheduling
- 2D/3D DXF file transfer & 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 Pro<sup>®</sup> based operating
- Exceptional accuracy and repeatability
- Sealed, oversize bearings for low maintenance operation
- 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 provides the strongest cut in the market
- One keystroke transition between metric and English units of
- Video camera for machine monitoring or video conferencing
- 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
- Network ready for (Dial-A-Service)
- Parallel, Serial, Ethernet & USB Ports
- Aluminum extrusion safety barrier with high impact polycarbonate shields and safety interlock door included
- Unlimited rotation of bending arm for maximum efficiency and reliability
- Temperature controlled electronics cabinets with washable filters
- Optional integration with Coordinate Measuring machines available

# MODULAR

The AFM-3D Series. The machine that pioneered modularity in the wire industry. Modular frame construction provides the most flexible, versatile 3D machines in the market.

#### **Multiple Mandrel Indexing Tool Head Option**

All AFM-3D benders are available with the Turret Head indexing tool head option. Turret Head machines feature not just one but TWO programmable bending pins. The hard bending pin is used for short bend-to-bend requirements and producing parts with extremely complex bends. The roller bearing bending pin is used for radius generation in making rings, spirals or large radius bends.

The multi-mandrel tool cluster holds round pins, roller tools, and sharp bend dies...all of which are user replaceable. The slide action hydraulic cutter provides burr-free square cuts and is capable of a "zero length" cut-off.



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



Instant Production Estimates and Material Consumption

### Expandability - Versatility

All 3D benders can be expanded by simply separating and inserting the appropriate modules. Adding modules for inline secondary operations such as chamfering, threading, undercutting and flattening can extend the versatility of your AccuForm AFM-3D machine. Stand-alone floor mounted units are available for chamfering, threading, ball-end radius and cold heading. Multiple axes pick and place units can automatically transfer formed parts to secondary machine operations. A second bending head can be added for extremely intricate bends.

#### Wire Bending Made Easy

The AccuForm modular line of 2D & 3D programmable CNC steel wire benders make virtually any kind of simple or complex parts from round and flat wire.

Using AIM's SmartEditor® program, a variety of different shapes can easily be designed. SmartCode can be used for standard shapes such as rings, polygons and spirals by simply entering the desired lengths, number of sides or diameters.

DXF files can be imported from your CAD system. Animation Simulation shows the part being formed before production begins allowing changes to be made prior to machine operation.

"Dial-a-Service" allows access to any machine worldwide via internet allowing diagnostics to be performed within minutes.

The AFM Series is backed by a two-year limited Parts and Labor Warranty, the most comprehensive in the market.





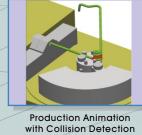








AFM-3D12-7



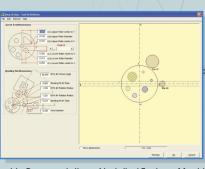
Makes programming Seamless!



of Bender Arm.



SmartCode for automatic programming of frames, eye loops, rings and spirals.



Graphic Representation of Installed Tools on Machine.



**Dual Size Straightener Rollers** for Wide Range of Wire Diameters



AFM-3D shown without safety barrier for display purposes.





**TURRET HEAD Indexing Tool Changer** 

Bending Pin









