

Machine Model	AFS3D8-P8	AFS3D12-P8	AFS3D16-P8
Wire Diameter Range (Millimeters)	2mm - 8mm	*3mm - 12mm	6mm - 16mm
Wire Diameter Range (Inches)	0.080" - 0.315"	0.118" - 0.472"	0.236" - 0.629"
Max. Wire Tensile at Max. Wire Diameter	550 N/mm ²	550 N/mm ²	550 N/mm ²
—#— (kPSI)	80 kPSI	80 kPSI	80 kPSI

Performance Specifications

Feeder Axis #1

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

Bender Axis #2

Bender Resolution	0.0005°	0.0005°	0.0005°
Max Bender Speed	1100°/sec	1100°/sec	950°/sec
Max Bender Angle	Unlimited	Unlimited	Unlimited

Z-Axis #3

Z-Axis Resolution	0.0004°	0.0004°	0.0004°
Mandrel Z-Axis Speed	600°/sec	500°/sec	400°/sec
Mandrel Z-Axis Acceleration Time	180 msec	230 msec	250 msec
Maximum Z-Axis Rotation	Unlimited	Unlimited	Unlimited

Turret Axis #4

Turret Axis ToolChange Time	300mSec	300mSec	300mSec
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Bender Mandrel Axis #5

Mandrel Axis Resolution	0.0004°	0.0004°	0.0004°
Mandrel -Axis Speed	1500°/sec	1200°/sec	800°/sec
Mandrel Axis Acceleration Time	50 msec	50 msec	50 msec
Maximum Mandrel Axis Rotation	Unlimited	Unlimited	Unlimited

Set-Up Time

Same Wire Diameter	2 minute	2 minute	2 minute
Change Feeder Rollers & Bending Tools	15 minutes	15 minutes	15 minutes

Power Consumption, Electrical & Air Requirements

Average Power Consumption (KW/h)**	2.8	3	4
Electrical Requirement	50/60 Hz 400V or 480V, 3 phase - all models***		
Installed Power	47KVA	55KVA	90KVA
Air Requirements	100 PSI @ 2 SCFM - all models		

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

Width, Depth & Height (meters)	2.59 x 2.08 x 2.13	2.59 x 2.08 x 2.13	3.556 x 2.2 x 2.13
—#— (inches)	102" x 82" x 84"	102" x 82" x 84"	140" x 90" x 84"
Gross weight (Kg)	4300 Kg	4700 Kg	7000 Kg
Gross weight (Lbs)	9460 Lbs	10340 Lbs	15400 Lbs

Versatility

Total Bending Tools (Positive & Negative)	10	10	10
Total Bending Pins	2	2	2

* Additional tooling required for less than lower range wire diameter

** Power Consumption Data is measured on average production parts. Actual values might vary and are part specific

*** Please specify on order

Optional Equipment



AccuThread
Single End Threading Module

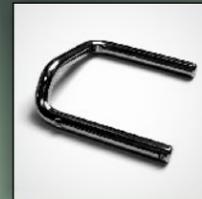


AccuPress
Modular Inline Press Station

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AFS3D8-P8
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AFS3D16-P8

AccuForm MODULAR Synchro
Performance in CNC Wire Bending



FORMING OUR FUTURE WITH YOURS

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Automated Industrial Machinery, Inc.

AccuForm Modular

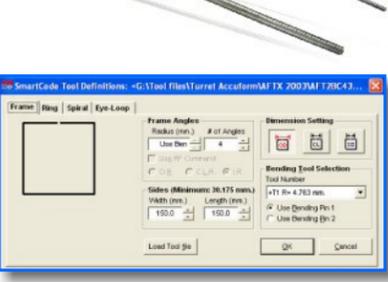
FEATURES & BENEFITS

- Concurrent Operations: Dual processor allows programming a part while running production
- Production Statistics for cost estimating & scheduling
- 2D/3D DXF file 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 XP Pro® based operating system
- 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 cutting system for high tensile wire provides the strongest cut in the market
- One keystroke transition between metric and English units of measure
- 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

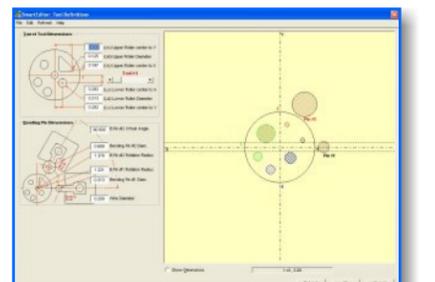
The AFS-3D Series. The machine that pioneered modularity in the wire industry. Modular frame construction provides the most flexible, versatile 3D machines in the market.

Multiple Mandrel Indexing Bending Head
All AFS 3D Benders are available with the Synchro Head Option. The Patent Pending Synchro Head is not only the most unique but most versatile bending head on the market. Synchros' technology is a hybrid configuration of our Turret head coupled with twin rotary satellite benders! This enables the end user to have their choice of turret forming, rotary forming or both. Press brake style bends, perfectly round eye-loops, off plane bending, programmable tool configurations, tube forming, Synchros' capabilities are endless. In addition, the forming pins can be easily replaced as needed.

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.



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



Graphic Representation of Installed Tools on Machine

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 AFS-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.

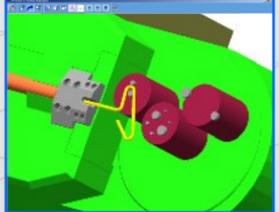
Wire Bending Made Easy
The AccuForm modular line of 2D & 3D programmable CNC steel wire benders make virtually any kind of simple or complex parts from round and flat wire.

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.

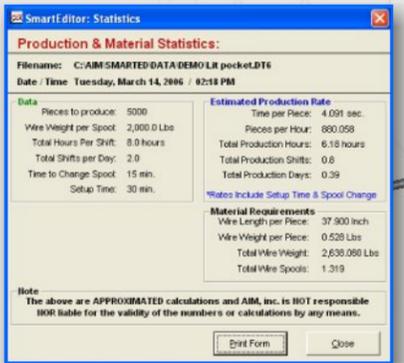
The AFS Series is backed by a two-year limited Parts and Labor Warranty, the most comprehensive in the market.



Production Animation With Collision Detection Makes Programming Seamless!



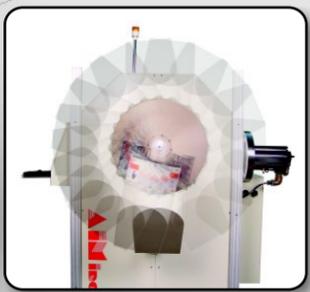
Simple Programming Interface. SmartEditor® helps figure out machine movements. User only needs to add feed length, bend angle, radius size & tool configuration



Instant Production Estimates and Material Consumption



Dual Size Straightener Rollers for Wide Range of Wire Diameters



Unlimited Rotation of Bender Arm



TURRET HEAD Indexing Tool Changer
Dual Action Cutter Programmable Satellite Mandrel Benders
Programmable Turret Tool Changer

SYNCHRO SERIES

