



THE BEST PERFORMANCE IN WIRE AUTOMATION



AFCE 3D8
AFCE 3D10



MADE IN USA

Key Features of the AFCE-3Dx:

- DXF, LRA, and XYZ File Import: Streamlines the programming process.
- Animated Bending Simulation with Collision Detection: Ensures accuracy before production.
- Auto Speed/Load Monitoring: Optimizes performance during operation.
- User-Friendly Touchscreen Monitors: Industrial-grade 19" LCD color display for seamless interaction.
- Microsoft Windows® Operating System: Provides a familiar and reliable interface.
- 5 HP Wire Payoff Unit: Ensures smooth and efficient wire feeding.
- Dial-A-Service Remote Support: Enables AIM's technical team to diagnose and assist remotely.
- Maintenance Module: Automatically schedules and reminds users of essential maintenance tasks for minimal downtime.

Available Options:

- AccuCal Automatic Bend Setup: Simplifies setup for complex bends.
- AccuTrack Production Statistics: Offers detailed insights into production efficiency.
- AIM Academy 24/7 Online Training: Provides continuous learning and operational support.
- CMM Communication: Facilitates automatic programmer corrections.
- Robotics Integration: Enhances automation and productivity.
- STEP and IGES File Import: Expands compatibility with CAD systems.

AFCE-3Dx Specifications:

- Maximum Wire Diameter: 8mm (10mm version also available).
- Precision Construction: AIM's robust and reliable machine design.
- High-End Digital Servo System: Powered by Yaskawa for unparalleled performance.
- Safety Features: Includes Z-axis arm safety gates with sensors.
- P2705 5 HP Payoff Unit: Ensures uninterrupted wire feeding.
- Two-Plane Wire Straightener: Guarantees optimal wire straightness.
- Tooling Package: Includes feeder rollers, cutters, bending pins, and a tool cluster tailored to your specific wire.
- Industrial Storage Drawer: Keeps tools organized and easily accessible.
- Feeder Resolution: 0.0002" for exceptional precision.
- Feeder Speed: Up to 230 feet/minute (70 meters/minute).
- Yaskawa Belt-Driven Servo Bender: Low-maintenance and cost-efficient.
- Unlimited Z-Axis Rotation: Operates at extreme speeds with full 360° capability.
- Proprietary SmartEditor® Software: Simplifies programming and enhances user control.
- Graphic Simulation with Animation: Visualize operations before production begins. support to access your machine remotely from anywhere worldwide and enable diagnostic help within minutes.

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Machine Model	AFCe 3D8	AFCe 3D10
Wire Diameter Range (Millimeters)*	2mm - 8mm	3mm - 10mm
Wire Diameter Range (Inches)*	0.080" - 0.313"	0.118" - 0.394"
Max. Wire Tensile At Max. Wire Diameter — # — (kPSI)	550 N/mm ² 80 kPSI	550 N/mm ² 80 kPSI

Performance Specifications

Feeder Axis #1

Wire Feed Resolution (Millimeters)	<0.0001mm	<0.0001mm
Wire Feed Resolution (Inches)	<0.00001"	<0.00001"
Max wire feed speed (Meters)	70 m/min	70 m/min
Max wire feed speed (Feet)	230' f/min	230' f/min

Bender Axis #2

Bender Resolution	<0.0001°	<0.0001°
Max Bender speed	1800°/sec	900°/sec
Max Bender angle	Unlimited	Unlimited

Arm Axis #3

Z-Axis Resolution	<0.0001°	<0.0001°
Max Z-Axis speed	330°/sec	300°/sec
Max Z-Axis rotation	Unlimited	Unlimited

Set-Up Time

Same Wire Diameter	2 minutes	2 minutes
Change Bending tools	15 minutes	15 minutes

Power Consumption, Electrical & Air Requirements

Average Power Consumption (kW/h)**	1.9	2.3
Electrical requirement	50/60 Hz 400V or 480V, 3 phase - all models***	
Installed Power	22.14KVA	25KVA
Air requirements	100 PSI @ 2 SCFM - all models	

Dimensions & Weight Please call AIM for all other models & configurations

Width, Depth & Height (meters)**** — # — (inches)****	4.6m x 1.8m x 1.5m 180" x 70" x 60"	4.6m x 1.8m x 1.5m 180" x 70" x 60"
Gross weight (Kg)	1775 Kg	1800 Kg
Gross weight (Lbs)	3913 Lbs	3968 Lbs
Turntable weight (Kg)	260 Kg	260 Kg
Turntable weight (Lbs)	573 Lbs	573 Lbs
Safety Gate weight (Kg)	100 Kg	100 Kg
Safety Gate weight (Lbs)	220 Lbs	220 Lbs

* Machines can form wire down to 2mm with additional tooling.

** Power Consumption Data is measured on average production.

*** Specify on Order.

**** Dimensions based on installation footprint.



**Unlimited
Arm (Z-Axis) Rotation**

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For online videos visit:
www.youtube.com/wirebenders

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