### Performance Specifications

**Feeder Axis #1**
- Wire Feed Resolution (Millimeters) <0.0001 mm
- Wire Feed Resolution (Inches) <0.0001"
- Max. Wire Feed Speed (Millimeters) 152 mm/min
- Max. Wire Feed Speed (Feet) 506' (min)

**Bender Axis #2**
- Bend Resolution <0.0001 mm
- Max. Bender Speed 1800°/sec
- Max. Bender Angle Unlimited

**Z-Axis #3**
- Z-Axis Resolution <0.0001°
- Max. Z-Axis Speed 720°/sec
- Max. Z-Axis Rotation Unlimited

**Turret Axis #4**
- Turret Axis Speed 250°/sec
- Change Turret Time 3 minutes

**Bender Mandrel Axis #5**
- Mandrel Resolution <0.0001°
- Mandrel Mandrel Axis Speed 1800°/sec
- Max. Mandrel Axis Rotation Unlimited

**Set-Up Time**
- Same Wire Diameter 2 minutes
- Change Feeder Rollers & Bending Tools 15 minutes

**Power Consumption, Electrical & Air Requirements**
- Average Power Consumption (KW/h) **4**
- Installed Power 50KVA
- Air Requirements 100 PSI @ 2 SCFM - all models

**Dimensions & Weight**
- Width, Depth & Height (meters) 2.59 x 2.08 x 2.13
- Approx. Gross weight (kg) 4300 kg
- Approx. Gross weight (lbs) 9460 lbs

**Versatility**
- Total Bending Tools (Positive & Negative) 10
- Total Bending Mandrels 3

* Additional tooling required for less than lower range wire diameter.

**Performance in CNC Wire Bending**
- Wire Diameter Range (Millimeters) 2mm - 8mm
- Wire Diameter Range (Inches) 0.080" - 0.315"
- Max. Wire Tensile at Max. Wire Diameter (kPpsi) 550 N/mm²
- Max. Wire Tensile at Max. Wire Diameter (IPS) 80 IPS
- Max. Wire Feed Speed (Feet) 145 m/min
- Power Consumption Data is measured on average production parts. Actual values might vary and are part specific.

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**Optional Equipment**

- **AccuThread**
  - Single End Threading Module

- **AccuPress**
  - Modular Inline Press Station

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For online videos visit: www.youtube.com/wirebenders
**AccuForm SYNCHRO SERIES**

**Two years Parts & Labor, limited warranty**

- Temperature controlled electronics cabinets with washable filters
- Capacity
- Fully automated payoff unit included: 5Hp, 2000 Kgr (4500 Lbs)
- Benders for maximum efficiency and reliability
- Unlimited rotation of Bending Arm, Turret, Bender and Mandrel
- Serial, Ethernet & USB Ports
- Network ready for “Dial-A-Service”
- Highest overall production speeds in the industry
- Robotics, threading units, & inspection devices
- Spare I/O’s for interconnection of auxiliary equipment such as cutting tools, etc.
- Exceptional wear and tool life
- Hardened and precision ground tool steel moving parts for exceptional wear and tool life
- One keystroke transition between Metric and English units of measure
- Videos for remote machine monitoring or video conferencing
- Exceptional accuracy and repeatability
- Group 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 (O.R., I.R. and distance between spirals)
- Standard 3-Dimensional model of your part
- Easy-to-maintain design 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 cutter provides burner-free square cuts and is capable of a “zero length” cut-off. In addition, one of the binders can be equipped with cutting tools for smaller wires, eliminating the need to reverse the feed in order to cut.

**Expandability - Versatility**

- All AIM 3D benders can be expanded by simply separating and inserting the appropriate modules.
- Adding modules for line secondary operations such as chamfering, threading, undercutting and flattening can extend the versatility of your AccuForm Synchro machine. Stand-alone floor mounted units are available for chamfering, threading, ball-end radius and cold heading. Robotics or Multi axes pick and place units can automatically transfer parts to secondary machine operations.

**Wire Bending Made Easy**

- The AccuForm Modular line of 2 & 3D programmable CNC steel wire benders make virtually any kind of simple or complex parts from round and profiled 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.
- ‘Data-A-Service” allows access to any machine worldwide via internet allowing diagnostics to be performed within minutes.

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