

IP AUTOMATION INC

The i-S² "Squared" series multiplies your bending options with dual nose/mandrel tool heads for off-plane bending capability



- 8-9 servo axis
- Intellibend software on Windows 10 operating system with 3D simulation
- Length-Rotation-Angle CNC program format
- Up to 16 different forming radii possible
- All electric motions, no pneumatic or hydraulics used in bending
- Wire stabilizer for increased wire form repeatability



i-S² SERIES
Multiple Bend Head CNC Wire Bender

www.ipautomationinc.com

Phone: (630)656-1215

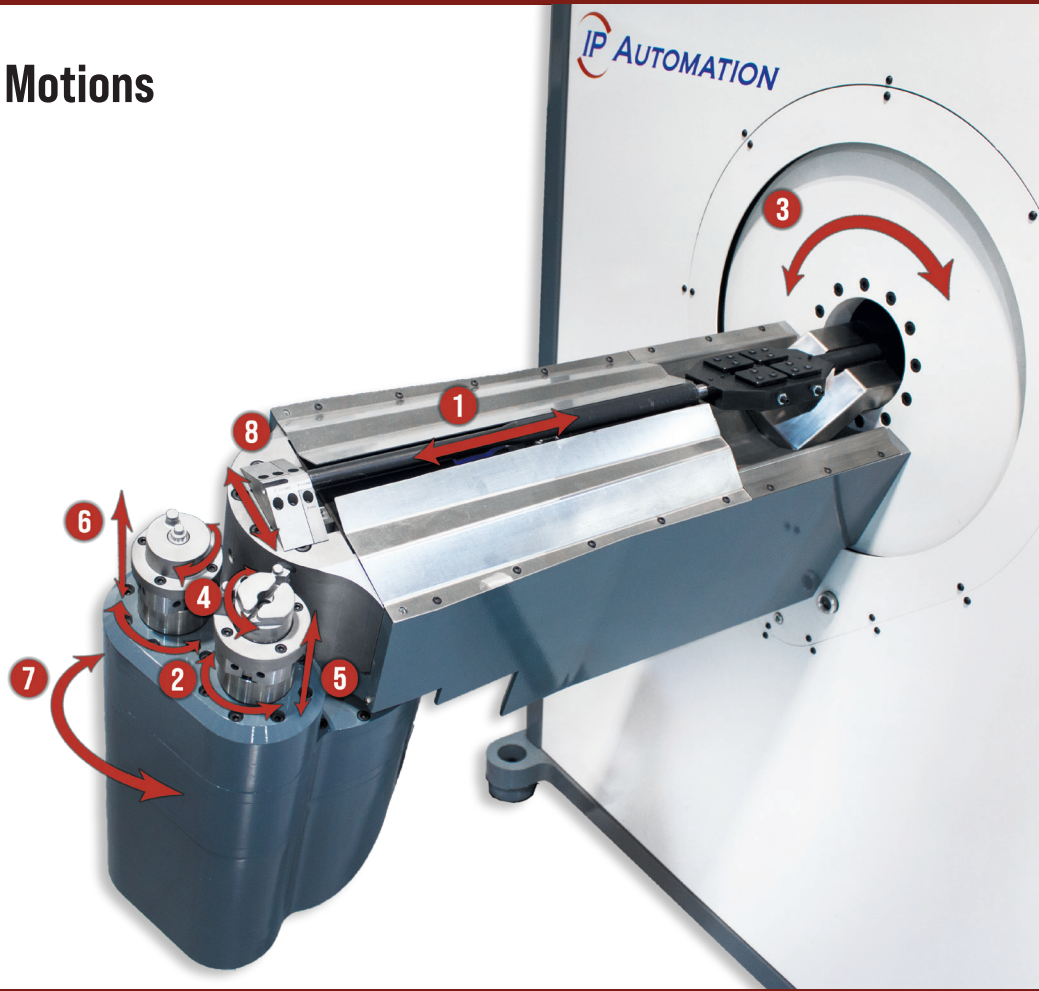
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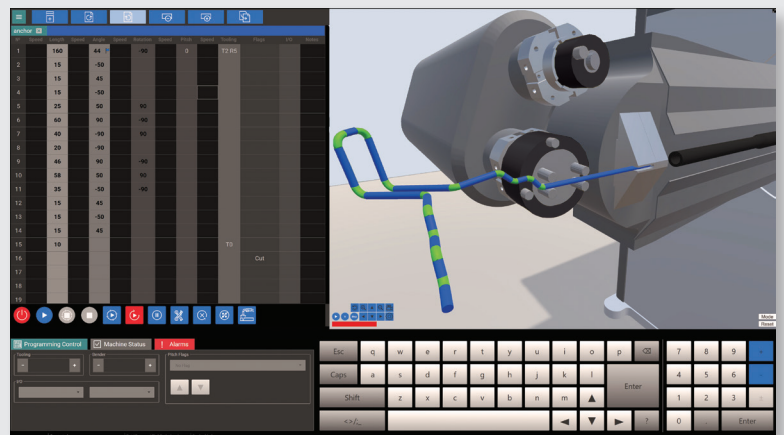
8-9 Axis Servo Controlled Motions

1. X-Axis Wire Feed
2. Y-Axis Bender Rotation
3. Z-Axis Arm Rotation
4. T-Axis Center Tool Rotation
5. P1-Axis Bend Head Up/Down
6. P2-Axis Bend Head Up/Down
7. U-Axis Head Base Pivot
8. C-Axis Cutter
9. Optional Traversing Feeder/Straightener
(on opposite page)



Intellibend Software Features

- Intellibend software on Windows 10 operating system with 3D simulation and collision detection
- Production dashboard, with real-time rate and batch programming
- 21.5" (55cm) Multi-touch screen
- Remote connectivity through secure VPN tunnel
- OPC-UA protocol for industry 4.0 and IIOT
- Custom I/O functions available
- Seamless robotic integration to bender



Main Program Grid with 21.5" (55cm) Multi-Touch Screen

i-S² SERIES

Optional Features

- Optional 9th axis traversing feeder/straightener, for increased wire straightness repeatability
- Integrated in-line wire chamfering
- Auto-Bend correction - with 3rd party feedback devices available
- Part support table
- Wire pre-feeder



i10-S² shown with optional traversing feeder/straightener

Automation Cell Accessories



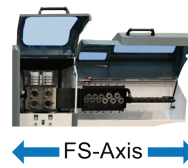
Intellimate Robot



iFM-6
Machining Center
for chamfer, mill, thread



Servo Press



Traversing
Straightener/Feeder

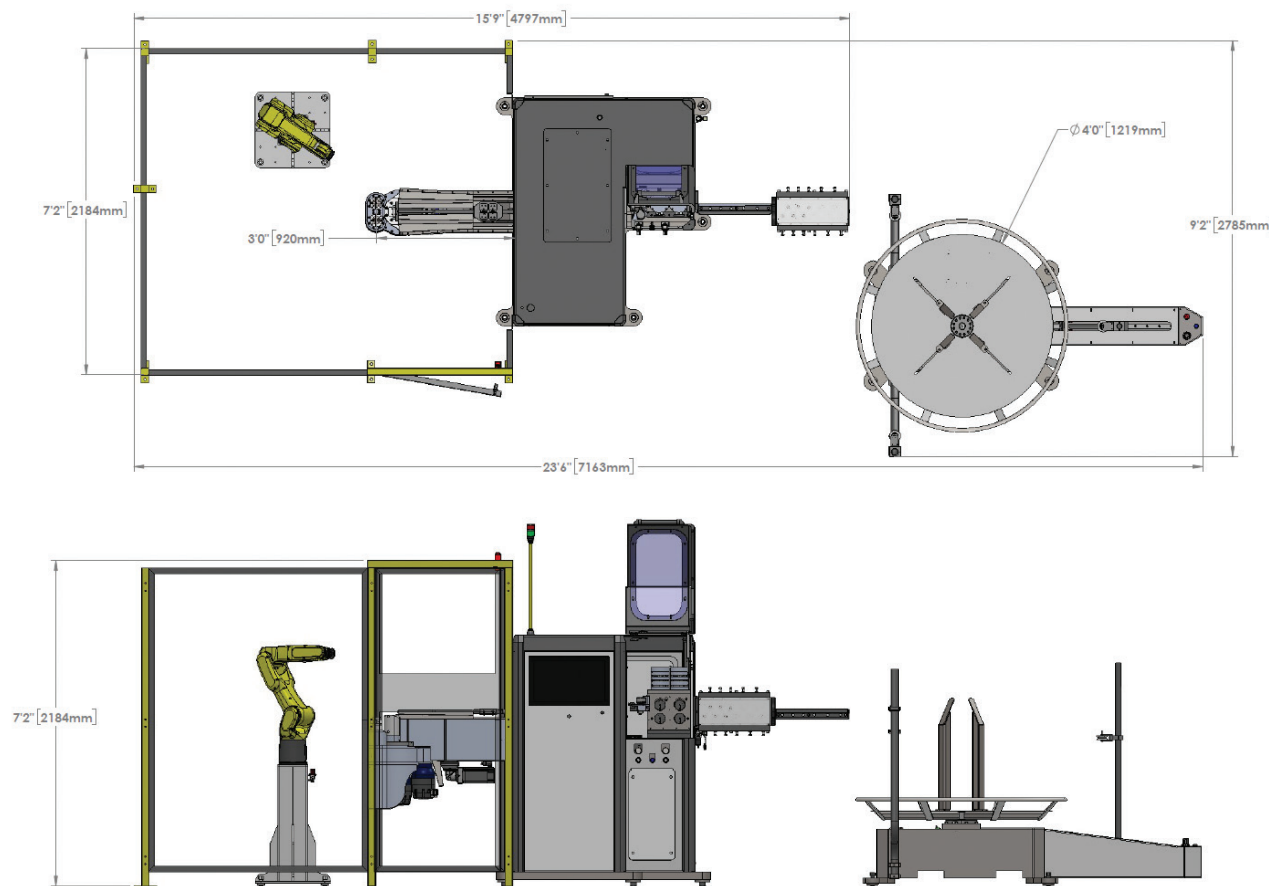


Parts Handling
Solutions



Cold Heading

i10-S² Approximate Machine Layout



Model	i8-S ²	i10-S ²	i13-S ²
Wire Diameter (Tensile)	2.5-8mm (620N/mm ²)	3-10mm (620N/mm ²)	4-13mm (620N/mm ²)
Bend Radii	up to 16	up to 16	up to 16
Arm Length	850mm	850mm	950mm
Installed Power KVA	20 KVA	21.5 KVA	24 KVA
Air Requirements	80 PSI (550 KPa) Min.	80 PSI (550 KPa) Min.	80 PSI (550 KPa) Min.
Machine Weight	3400kg	3800kg	6200kg
# of Servos	8-9	8-9	8-9
Feed Speed	120m/min	110m/min	90m/min
Bend Speed	1100 deg/sec	1050 deg/sec	700 deg/sec
Tool Change Time	<200 msec	<200 msec	<400 msec
Arm Rotation Speed	500 deg/sec	500 deg/sec	330 deg/sec
Cut Time	<260 msec	<300 msec	<500 msec



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