

i-S² SERIES

Multiple Bend Head 3D CNC Wire Bender

The i-S² “Squared” series is the best of both worlds with mandrel and center cluster tooling flexibility



- 8-9 servo axis
- Intellibend software on Windows™ with 3D simulation
- Length-Rotation-Angle programming
- Up to 16 different forming radii possible
- All electric motions, no pneumatic or hydraulics used in bending
- Wire stabilizer for increased wire form repeatability
- Interchangeable cluster or mandrel tooling



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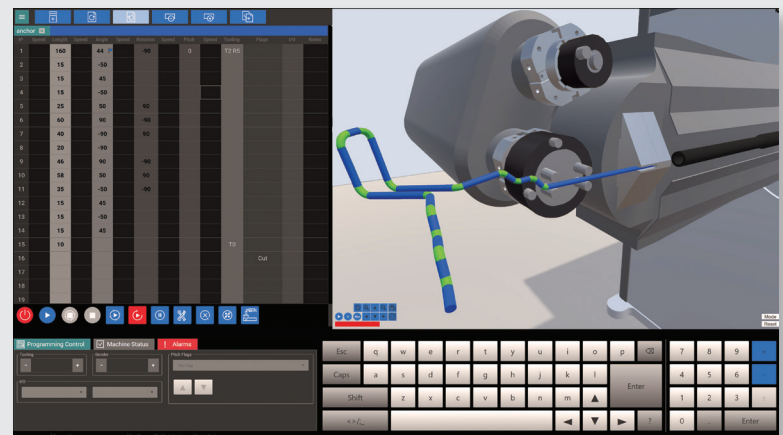
8-9 Axis Servo Controlled Motions

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

- 3D simulation and collision detection
- Length-Rotation-Angle program format
- Streamlined dashboard with live production metrics
- 21.5" (55cm) Multi-touch screen
- Remote connectivity through secure VPN tunnel
- Seamless robotic integration to bender
- Automated 2 pin bending
- STEP file import
- User access levels
- Intelligent maintenance driven by real-time usage
- OPC-UA protocol for industry 4.0 and IIOT



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

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Optional Features

- Traversing feeder/straightener, prevents wire from reversing through the straightener
- Integrated in-line wire chamfering
- Integrated in-line press
- Auto-Bend correction - with 3rd party feedback devices available
- Part support table
- Wire pre-feeder



i10-S² shown with optional traversing feeder/straightener

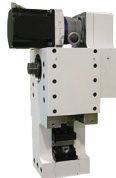
Automation Cell Accessories



Intellimate Robot



iFM
Machining Center



Servo Press



Chamfer/Drilling
Station



Resistance Welder

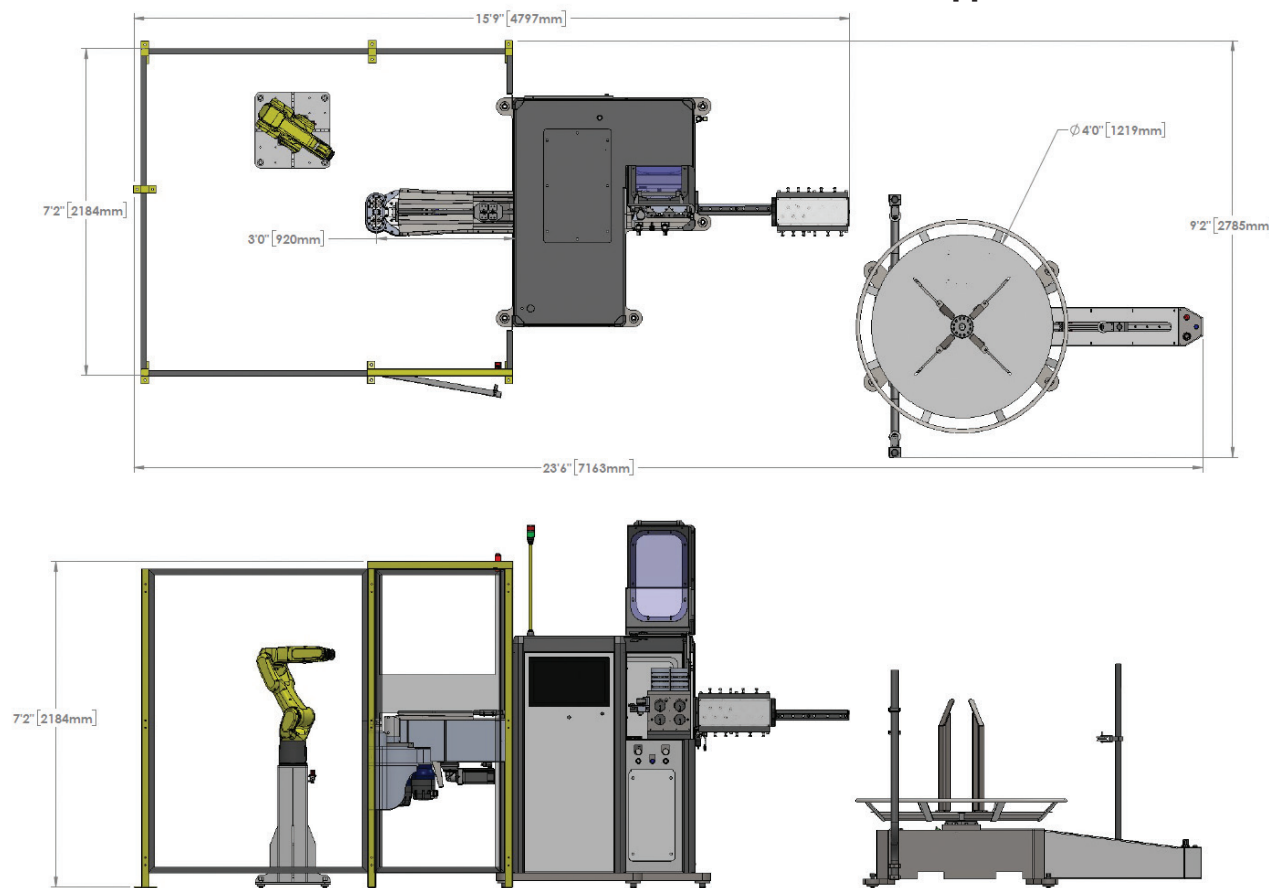


Parts Handling
Solutions



Cold Heading

i10-S² Approximate Machine Layout



Model	i8-S ²	i10-S ²	i13-S ²	i16-S ²
Wire Diameter (Tensile)	2.5-8mm (620N/mm ²)	3-10mm (620N/mm ²)	4-13mm (620N/mm ²)	4-16mm (620N/mm ²)
Bend Radii	up to 16	up to 16	up to 16	up to 16
Arm Length	850mm (33.5")	850mm (33.5")	1015mm (40")	1220mm (48")
Installed Power kVA	17 kVA 460V 3ph	17 kVA 460V 3ph	21 kVA 460V 3ph	42 kVA 460V 3ph
Air Requirements	80 PSI (550 KPa) Min.	80 PSI (550 KPa) Min.	80 PSI (550 KPa) Min.	80 PSI (550 KPa) Min.
Machine Weight	3400kg	3800kg	4100kg	7300kg
# of Servos	8-9	8-9	8-9	8-9
Feed Speed	120m/min	110m/min	90m/min	90m/min
Bend Speed	1100 deg/sec	1050 deg/sec	700 deg/sec	700 deg/sec
Tool Change Time	<200 msec	<200 msec	<400 msec	<400 msec
Arm Rotation Speed	500 deg/sec	500 deg/sec	330 deg/sec	300 deg/sec
Cut Time	<260 msec	<300 msec	<500 msec	<500 msec

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