



# CNC TUBE BENDERS



**CNC-16**



- Draw + Push-Roll Bending
- 3-6 Servo Controlled Axes
- Windows XP Embedded Operating System
- 3D Simulation of Bending Process
- Touch Screen Software
- XYZ or LRA Data Input
- AutoCAD / DXF conversion to YBC
- Self Diagnostic Program

- Available to work with automatic and robotic tube loaders
- Safety package available with scanner and machine enclosures
- Automatic mandrel lubrication function
- Programmable anticipated mandrel retraction
- Elongation and Spring-back compensation
- Multiple Bend Radii
- Multiple Axes working simultaneously to reduce bending cycle time



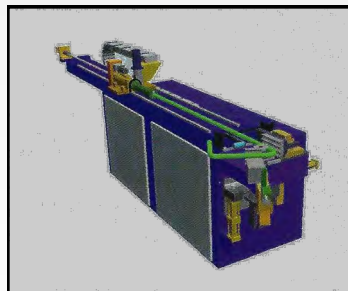
**CNC-20**



**CNC-25**



3D Part Visualization



3D Bending Simulation



Auto. Load/Unload (Optional)



3-Jaw Collet (Optional)



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## Machine Specifications

Model		8	16	20	25	30
Centerline Radius Range		.400" - 1½"	.400" - 2¾"	.400" - 4"	.400" - 4"	.590" - 7"
Max. Bending Angle		190°	190°	190°	190°	190°
Max. Mandrel Working Distance		55"	55"	70¾"	70¾"	78¾"
Motion Speed	Tube Feeding Speed	51"/sec	51"/sec	47"/sec	51"/sec	47"/sec
	Tube Rotation Speed	900°/sec	360°/sec	360°/sec	360°/sec	360°/sec
	Tube Bending Speed	330°/sec	200°/sec	180°/sec	180°/sec	180°/sec
Repetition	Tube Feeding Resolution	±0.004"	±0.002"	±0.002"	±0.004"	±0.004"
	Tube Rotation Resolution	±0.1°	±0.05°	±0.05°	±0.1°	±0.1°
	Tube Bending Resolution	±0.1°	±0.05°	±0.05°	±0.1°	±0.1°
Total Power (kW)		3	8.1	5	8.5	12.1
Hydraulic Motor (kW)		-	3.8	3.8	3.8	3.7
Oil Tank Capacity (Gallons)		-	15⅞	21	26⅞	26
Cooler (GPM)		-	26⅞	26⅞	26⅞	39
Overall Weight (lbs)		1370	3090	3310	3310	8247
Machine Length		95"	110"	128"	136"	147¼"
Machine Width		35"	32"	45"	43"	53"
Machine Height		51"	57"	62"	59"	65¾"
Operating Height		43"	43"	43"	43"	43¼"



## Maximum Bending Capacities

Model	8	16	20	25	30
Round Tube - Mild steel - Y.P to 40,000 psi OD x Wall - 1D Bend	.236" x .039"	.393" x .060"	.500" x .060"	.625" x .060"	.750" x .060"
Round Tube - Mild steel - Y.P to 40,000 psi OD x Wall - 1.5D Bend	.315" x .039"	.625" x .060"	.780" x .060"	1.00" x .060"	1.13" x .060"
Round Tube - Stainless 304 - Y.P to 60,000 psi OD x Wall - 1D Bend	-	.393" x .060"	.393" x .060"	.500" x .060"	.600" x .060"
Round Tube - Stainless 304 - Y.P to 60,000 psi OD x Wall - 1.5D Bend	-	.500" x .060"	.625" x 0.60"	.750" x .060"	1.00" x .060"
Round Pipe - Schedule 40 OD x Wall	-	1/8"	1/4"	3/8"	1/2"

**Note: Technical data and machine design subject to change without notice.**

