



CNC TUBE BENDERS



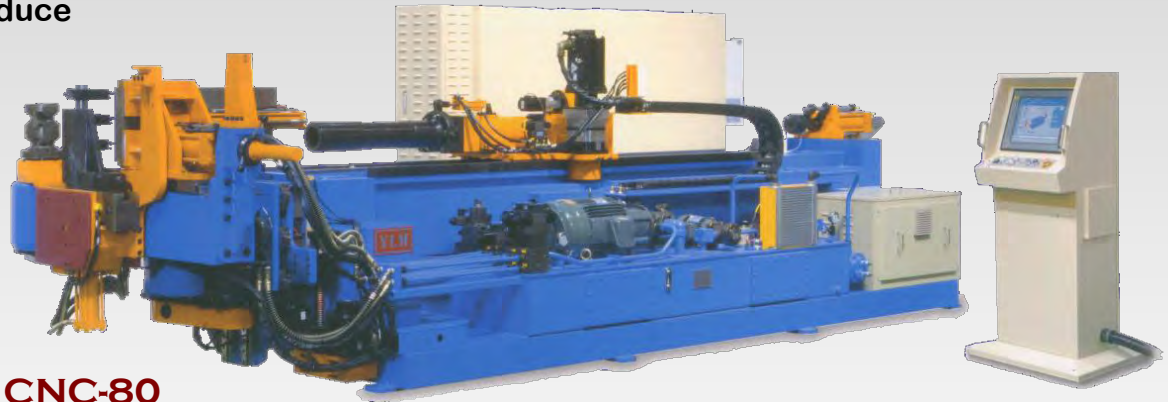
CNC-38

- 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



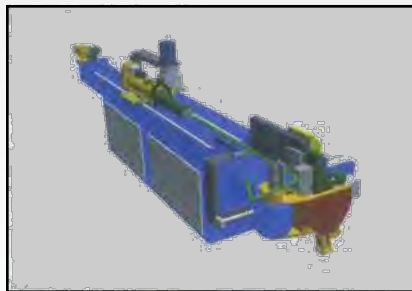
CNC-66



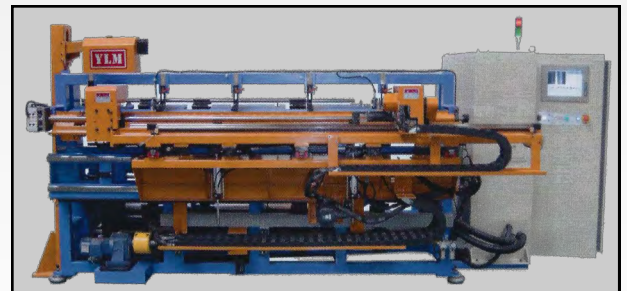
CNC-80



3D Part Visualization



3D Bending Simulation



Auto. Load w/ Weld Seam Detection (Optional)



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Machine Specifications

Model		30	38	50	65	66	80
Centerline Radius Range		.590" - 7"	.590" - 7"	.787" - 8 $\frac{3}{4}$ "	.787" - 9 $\frac{3}{4}$ "	.787" - 9 $\frac{3}{4}$ "	.866" - 9 $\frac{3}{4}$ "
Max. Bending Angle		190°	190°	190°	190°	190°	190°
Max. Mandrel Working Distance		78 $\frac{3}{4}$ "	78 $\frac{3}{4}$ "	98 $\frac{3}{8}$ "	98 $\frac{3}{8}$ "	98 $\frac{3}{8}$ "	118"
Motion Speed	Tube Feeding Speed	47"/sec	47"/sec	43"/sec	29"/sec	29"/sec	31"/sec
	Tube Rotation Speed	360°/sec	360°/sec	270°/sec	240°/sec	240°/sec	210°/sec
	Tube Bending Speed	180°/sec	180°/sec	110°/sec	90°/sec	90°/sec	80°/sec
Repetition	Tube Feeding Resolution	±0.004"	±0.004"	±0.004"	±0.004"	±0.004"	±0.004"
	Tube Rotation Resolution	±0.1°	±0.1°	±0.1°	±0.1°	±0.1°	±0.1°
	Tube Bending Resolution	±0.1°	±0.1°	±0.1°	±0.1°	±0.1°	±0.1°
Total Power (kW)		12.1	19.4	24.4	30	39	34
Hydraulic Motor (kW)		3.7	5.5	7.5	7.5	7.5	15
Oil Tank Capacity (Gallons)		26	39	58	74	74	111
Cooler (GPM)		39	39	39	39	39	66
Overall Weight (lbs)		8247	6130	7938	9261	9481	14,645
Machine Length		147 $\frac{1}{4}$ "	180 $\frac{3}{4}$ "	198 $\frac{3}{4}$ "	199 $\frac{1}{4}$ "	199 $\frac{3}{4}$ "	251 $\frac{1}{2}$ "
Machine Width		53"	51"	51 $\frac{1}{2}$ "	51 $\frac{1}{2}$ "	61 $\frac{1}{4}$ "	88 $\frac{1}{2}$ "
Machine Height		65 $\frac{3}{4}$ "	74 $\frac{1}{2}$ "	75"	75"	75"	63"
Operating Height		43 $\frac{3}{4}$ "	47 $\frac{1}{4}$ "	45 $\frac{1}{4}$ "	45 $\frac{1}{4}$ "	46"	45 $\frac{1}{2}$ "



Maximum Bending Capacities

Model	30	38	50	65	66	80
Round Tubing - Mild steel - Y.P to 40,000 psi OD x Wall - 1D Bend	¾" x .060"	1" x .060"	1¼" x .083"	1½" x .083"	2" x .083"	2½" x .083"
Round Tubing - Mild steel - Y.P to 40,000 psi OD x Wall - 1.5D Bend	1½" x .060"	1½" x .083"	2" x .098"	2½" x .120"	2½" x .120"	3" x .120"
Round Tubing - Stainless 304 - Y.P to 60,000 psi OD x Wall - 1D Bend	.600" x .060"	.787" x .060"	1" x .080"	1½" x .083"	2" x .083"	2" x .083"
Round Tubing - Stainless 304 - Y.P to 60,000 psi OD x Wall - 1.5D Bend	1" x .060"	1¼" x .060"	1½" x .080"	2" x .080"	2" x .083"	2½" x .120"
Round Pipe - Schedule 40 OD x Wall	½"	¾"	1¼"	1½"	1½"	2"
Round Pipe - Schedule 80 OD x Wall	-	½"	1"	1¼"	1¼"	1½"
Square Tubing - Mild steel or SS 2.5D bend	-	1" x .060"	1½" x .083"	1¾" x .083"	1¾" x .083"	2½" x .083"
Rectangle Tubing - Mild steel E-plane	-	-	-	2¾" x 1¼" x .078"	-	3" x 1½" x .083"
Rectangle Tubing - Mild steel H-plane	-	-	-	2" x 1" x .078"	-	2¾" x 1¼" x .078"
Round Bar - Mild steel 1.5D Bend	-	0.787"	1"	1½"	1½"	1½"
Square Bar - Mild steel	-	-	-	1½"	-	1½"

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