

HINES[®]

BENDING SYSTEMS INC.



32" OD Induction Bender



ROMER Measuring Device Integrated With
BendPro G2 Control



Nuclear CNC Bender



Nuclear CNC BendPro G2 Control

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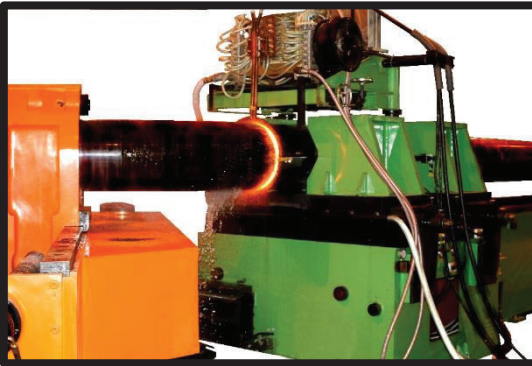
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	060CNC-B	100CNC-B	150CNC-B	200CNC-B	300CNC-B	600CNC-B	800CNC-B
Drop Away Clamp Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Pressure Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Wiper Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Overhead Tie Bar	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Mandrel Lubricator	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Mandrel Extractor	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Panasonic Servo Motors	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Hydraulic Carriage Boost	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Maximum Feeding	200ft/min	160ft/min	130ft/min	55ft/min	33ft/min	33ft/min	33ft/min
Maximum POB	60r/min	50r/min	40r/min	28r/min	20r/min	20r/min	20r/min
Standard Maximum Radius	4 inch	5 inch	10 inch	12 inch	14 inch	18 inch	22 inch
Maximum Bend Angle	190 deg	190 deg	190 deg	190 deg	190 deg	190 deg	190 deg
Bend Angle Accuracy + / -	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.1 deg
Bend Arm Speed	15rpm	10rpm	10rpm	5rpm	2rpm	2rpm	0.6rpm
Maximum Tube Length Over Mandrel	5ft	6ft	6ft	8ft	9-1/2ft	14ft	20ft
Motor	4HP	5HP	10HP	25HP	30HP	40HP	50HP
Operating Pressure	1200psi	1200psi	1200psi	2000psi	2000psi	2300psi	2300psi
Reservior Capacity	80 US Gal	80 US Gal	120 US Gal	175 US Gal	175 US Gal	275 US Gal	340 US Gal
Approximate Weight	3,000 lbs	5,500 lbs	7,000 lbs	10,000 lbs	14,500 lbs	26,000 lbs	39,000 lbs
Approximate Dimensions	8' L x 3' W x 4' H	10' L x 3' W x 4.5' H	12' L x 4' W x 4.5H	15' L x 5' W x 4.5' H	20' L x 5' W x 6' H	24' L x 7' W x 6' H	33' L x 8' W x 6' H
Voltage (50Hz Optional)	220V 3 Phase / 60Hz	220V 3 Phase / 60Hz	220V 3 Phase / 60Hz	220/440V 3 Phase / 60Hz	220/440V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz
Capacity	.750" OD .060 Wall	1.375" OD .120 Wall	1.50" OD .125 Wall	2.5" OD .200 Wall	4.25" OD .200 Wall	5.5" OD .300 Wall	6.625" OD .550 Wall

	150NC	200NC	300NC	300NC-P	600NC	800NC	1200NC
Drop Away Clamp Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Pressure Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Wiper Die Holder	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Overhead Tie Bar	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Mandrel Lubricator	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Mandrel Extractor	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Panasonic Servo Motors	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Hydraulic Carriage Boost	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Standard Maximum Radius	9 inch	12 inch	18 inch	12 inch	18 inch	22 inch	26 inch
Maximum Bend Angle	190 deg	190 deg	190 deg	190 deg	190 deg	190 deg	190 deg
Bend Angle Accuracy + / -	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.1 deg	0.25 deg
Bend Arm Speed	6rpm	5rpm	3.5rpm	1.5rpm	2rpm	0.6rpm	0.4rpm
Maximum Tube Length Over Mandrel	6ft	9ft	10ft	N/A	14ft	20ft	24ft
Motor	10HP	15HP	20HP	40HP	30HP	40HP	130HP
Operating Pressure	1200psi	2000psi	2000psi	2000psi	2300psi	2300psi	2500psi
Reservior Capacity	135 US Gal	135 US Gal	150 US Gal	240 US Gal	275 US Gal	340 US Gal	450 US Gal
Approximate Weight	6,600lbs	7,700lbs	13,800lbs	17,000lbs	23,000lbs	35,000lbs	20,0000lbs
Approximate Dimensions	9' L x 3.5' W x 4' H	13' L x 3.5' W x 4' H	15' L x 6' W x 5.5' H	16' L x 7' W x 6' H	19' L x 7' W x 5.5' H	30' L x 8' W x 5.5' H	36' L x 19' W x 9' H
Voltage (50Hz Optional)	220V 3 Phase / 60Hz	220V 3 Phase / 60Hz	220/440V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz	440/480V 3 Phase / 60Hz
Capacity	1.50" OD .125 Wall	3" OD .125 Wall	4" OD .226 Wall	3.5" OD .500 Wall	6" OD .200 Wall	6.625" OD .550 Wall	12" OD .625 Wall

	219	325	426	530	630	720	810	915	1020	1220	1420
Max OD x Wall (mm)	219x18	325x25	426x30	530x30	630x30	720x35	813x35	915x35	1020x35	1220x35	1420x35
Min OD (mm)	76	102	127	168	168	219	219	273	273	325	426
Max Bend Degree	180 Degrees										
CLR Range (mm)	200-1200	300-1800	380-2200	450-2600	450-3100	650-3600	650-4100	810-4600	810-5100	960-6100	1200-7100
Min (R/D)	2.5	3	3	3	3	3	3	3	3	3	3
Max Main Cylinder Stroke (M)	2.5	3	3.5	4	4.5	5.7	6.4	7.2	8	9.6	10
Induction Power (KW)	160	250	350	450	500	600	600	700	700	800	1000
Frequency (Hz)	800-1000Hz										
Bend Arm Speed											
Rear Clamp Bending Speed (mm/min)	18-240	18-240	18-180	18-180	18-180	15-180	15-180	15-180	15-180	15-180	15-180
Rear Clamp Return Speed											
From Front to Home Position (sec)	30-45	45-60	60-75	90-120	120-150	150-180	180-210	210-240	300-360	360-420	420-480
System Pressure (Mpa)	10	10	14	14	16	16	16	16	16	16	16
Max Pushing Force (KN)	400	600	600	800	800	900	900	1200	1200	1400	1600
Max Bending Moment (KN.M)	300	750	750	1200	1200	1500	1500	2000	2000	4200	4800
Machine CL Height (M)	1	1.2	1.3	1.45	1.5	1.55	1.6	1.65	1.75	1.85	2
Overall Dimensions (M)	9 L	10 L	11 L	12 L	14 L	16 L	18 L	20 L	22 L	26 L	27 L
	1.9 W	3.3 W	4 W	4.8 W	5.2 W	5.7 W	6.3 W	7 W	8 W	9.5 W	11 W
Machine Weight (Tons)	1.8 H	2.2 H	2.5 H	2.7 H	2.8 H	2.9 H	3 H	3.2 H	3.4 H	3.8 H	4.2 H
	15	25	32	40	52	65	78	90	105	120	135
Needs to be available at facility (KVA)	200	300	400	500	600	700	700	800	800	900	1100
Needs to be available to bender (KVA)	25	25	25	30	30	35	35	40	40	45	50
AMP Service Required	240	360	480	600	720	840	840	960	960	1080	1300



24" Induction Bender



12" OD Mandrel Bender



Hines CNC BendPro G2 Control



Hines 600CNC



Shipyard



**New Product:
Roll Benders**

Roll Bender Specifications

		Roll Bender Models		
		150	250	300
Bending Speed (m/min)		5	5	5
Dimensions		135×76×148CM	157×110×164CM	185×150×190CM
Machine Weight		800Kg	1500Kg	2500Kg
Angle Steel Hard Way 	Max.section (mm)	50×6	70×8	90×10
	Min.bending DIA (mm)	600	900	1200
Angle Steel Easy Way 	Max.section (mm)	50×6	70×8	90×10
	Min.bending DIA (mm)	700	1000	1400
Channel Steel Easy Way 	Max.section (mm)	8	12	16
	Min.bending DIA (mm)	600	800	900
Channel Steel Hard Way 	Max.section (mm)	8	12	16
	Min.bending DIA (mm)	700	900	1000
Flat Steel Easy Way 	Max.section (mm)	100×18	150×25	180×25
	Min.bending DIA (mm)	600	700	800
Flat Steel Hard Way 	Max.section (mm)	50×12	75×16	90×20
	Min.bending DIA (mm)	500	750	800
Round Steel Bar 	Max.section (mm)	38	52	62
	Min.bending DIA (mm)	450	600	750
Round Tube 	Max.section (mm)	60×4	76×5	89×6
	Min.bending DIA (mm)	1000	1100	1200
Square Tube 	Max.section (mm)	50×3	60×4	80×5
	Min.bending DIA (mm)	1000	1000	1200