

MARUKA

Our Goal is Your Success



SP Series Model Comparison

SP Series $\phi 2 \sim \phi 63.5$ Small ~ Medium Type
3 Axis CNC Tube & Pipe Benders

SP Series $\phi 42.7 \sim \phi 165$ Medium ~ Large Type
3 Axis CNC Tube & Pipe Benders

SP Series		SP-6SL	SP-8SST	SP-15ST	SP-25ST	SP-40ST	SP-60ST
Bending capacity		Copper / Aluminum pipe					
		$\phi 9.5 \times 0.8$	$\phi 15.9 \times 1.0$	$\phi 19.1 \times 1.2$	$\phi 28.6 \times 1.6$	-	-
		Steel pipe					
		$\phi 6.35 \times 0.8$	$\phi 10 \times 1.0$	$\phi 16 \times 1.6$	$\phi 25.4 \times 1.6$	$\phi 42.7 \times 3.5$	$\phi 63.5 \times 3.8$
		Steel pipe (thick wall)					
		-	-	-	$\phi 21.7 \times 2.8$	$\phi 34 \times 4.5$	$\phi 60.5 \times 4.5$
		Round steel					
		$\phi 3.5$	$\phi 5.0$	$\phi 8.0$	$\phi 12$	$\phi 20$	$\phi 32$
Machine spec		Bending radius					
		50	50	60	100	200	200
		ST-Model R1-R2					
		-	30	30	50	50	80
		Mandrel length					
		900	900	1,500	1,800	2,400	2,400
		Speed					
		Bend Axis	360°/sec	200°/sec	200°/sec	200°/sec	180°/sec
		Plane Axis	600°/sec	270°/sec	270°/sec	270°/sec	250°/sec
		Feed Axis	1000mm/sec	1000mm/sec	1000mm/sec	1000mm/sec	700mm/sec
		Dimension (mm)					
		Length	1,600	1,940	3,060	3,580	4,370
		Width	900	1,000	1,000	1,120	1,560
		Height	1,260	1,270	1,600	1,600	1,600
		Weight					
		600kg	700kg	1,200kg	1,400kg	2,700kg	3,500kg
		Electric capacity					
		2.5Kw	2.7Kw	6.0Kw	9.0Kw	27Kw	40Kw

SP Series		40ST	60ST	80ST	90ST	120ST	125ST	
Bend Capacity pipe diameter x wall thickness	Standard steel pipe	$\phi 42.7 \times 3.5$	$\phi 63.5 \times 3.8$	$\phi 76.2 \times 3.2$	$\phi 114.3 \times 4.5$	$\phi 127.0 \times 5.0$	$\phi 165.2 \times 5.0$	
	Steel pipe (thick wall)	$\phi 34 \times 4.5$	$\phi 60.5 \times 4.5$	$\phi 60.5 \times 5.5$	$\phi 89.1 \times 7.6$	$\phi 114.3 \times 8.4$	$\phi 139.8 \times 9.5$	
	Square pipe	40x20x2.3	50x30x2.3	60x30x2.3	80x40x2.3	100x50x2.3	125x75x4.5	
	Round steel	$\phi 20$	$\phi 32$	$\phi 38$	$\phi 50$	$\phi 65$	$\phi 85$	
Bend Radius for 2-stacked bending standard spec. (Optional for 3-stacked or more bending)	Max. Radius	200	200	350	350	500	700	
	Difference Radius, stacked (ST)	2	50	80	100	150	150	
Pipe effective length	Mandrel bending	2,400	2,400	3,000	4,000	5,500	5,500	
	Bend Axis	0~190°	0~190°	0~190°	0~190°	0~190°	0~190°	
	Feed Axis	0~2,400	0~2,400	0~2,800	0~3,800	0~5,100	0~5,100	
Controlable range for CNC control axis	Plane Axis	$\pm 360^\circ$	$\pm 360^\circ$	$\pm 360^\circ$	$\pm 360^\circ$	$\pm 360^\circ$	$\pm 360^\circ$	
	Available CNC processes	30	30	30	30	30	30	
Controllable speed for CNC (5-step variable for each axis)	Bend	15~180°/sec	8~77°/sec	8~62°/sec	5~30°/sec	3~22.5°/sec	2~14°/sec	
		Plane	200~1000°/sec	200~700°/sec	100~400°/sec	200~400°/sec	200~400°/sec	50~400°/sec
		Tilting	25~250°/sec	25~260°/sec	25~135°/sec	18~90°/sec	5~20°/sec	5~20°/sec
	Accuracy of Repeatability	Bend Axis	$\pm 0.05^\circ$	$\pm 0.05^\circ$	$\pm 0.05^\circ$	$\pm 0.1^\circ$	$\pm 0.1^\circ$	$\pm 0.1^\circ$
Feed Axis	40.05mm	40.05mm	40.05mm	40.1mm	40.1mm	40.1mm		
	Plane Axis	$\pm 0.05^\circ$	$\pm 0.05^\circ$	$\pm 0.05^\circ$	$\pm 0.1^\circ$	$\pm 0.1^\circ$	$\pm 0.1^\circ$	
Processing capacity	4~10°/sec (Bend)	4~10°/sec (Bend)	7~15°/sec (Bend)	10~18°/sec (Bend)	11~40°/sec (Bend)	11~40°/sec (Bend)		
	Hydraulic pump motor	7.5kw	11kw	22kw	22kw	30kw	37kw	
Machine dimension	Total electric capacity	27kw	40kw	30kw	33kw	45kw	56kw	
	Length	4,370	4,370	5,100	6,430	8,750	8,950	
	Width	1,100	1,560	1,410	2,035	2,180	2,600	
	Height	1,600	1,600	1,700	1,960	2,165	2,540	
	Feed stroke	2,400	2,400	2,800	3,800	5,100	5,100	
	Bending interference radius	110	165	165	195	300	450	
	Process center height	1,120	1,141	1,141	1,325	1,440	1,800	
Total weight	2,700kg	3600kg	5,000kg	6,500kg	11,000kg	18,000kg		

Los Angeles Tech Center
16220 Manning Way
Cerritos, CA 90703
Tel: 562-926-3654
Fax: 562-630-0507

Kansas City Tech Center
1210 NE Douglas
Lee's Summit, MO 64086
Tel: 816-524-1811
Fax: 816-524-5444

Chicago Tech Center
1107 North Main Street
Lombard, IL 60148
Tel: 630-953-1707
Fax: 630-953-1753

New Jersey Tech Center
400 Commons Way, Suite 11
Rockaway, NJ 07866
Tel: 973-983-1000
Fax: 973-983-8711