

CINCINNATI MACHINES

CS/CSX Series

HEAVY-DUTY

CNC UNIVERSAL TURNING CENTERS

**BIG SWING,
BIG BORE,
BIG CENTERS,
BIG POWER,
BIG CAPACITY**

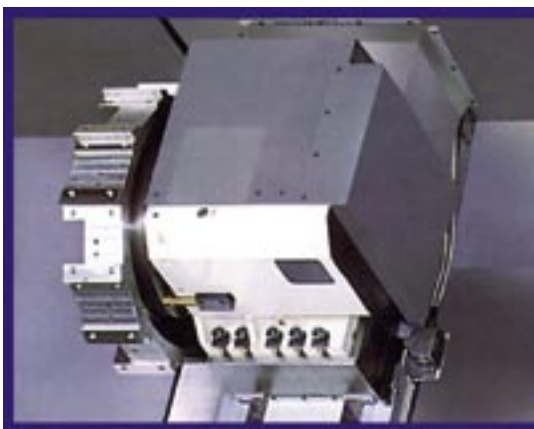


SERIOUS MACHIN

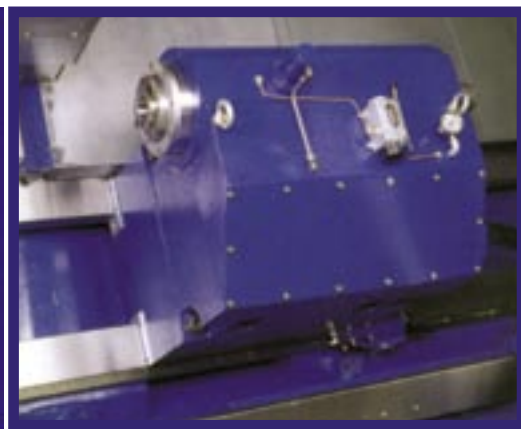
MASSIVE HEAVY-DUTY MEEHANITE CASTINGS THROUGHOUT



The powerful heavy-duty headstock delivers high torque to the precision spindle through 4 speed ranges. You have choices from 40 to 60 hp, and speed ranges from 300 rpm (21" bore) to the standard 1200 rpm (6" bore).



The heavy-duty yet fast and precise turret employs a conical clutch that provides random bi-directional tool selection in only 1 second (adjacent), 2.7 seconds (max). The standard 12 station turret utilizes VDI or polygon tooling, and is available with the "LIVE TOOLING" OPTION.



The heavy-duty massive programmable tailstock provides maximum rigidity and the quill features 7.8" of travel to insure minimum turret interference. CS has a 5.7" dia quill while CSX is 9.25" dia.

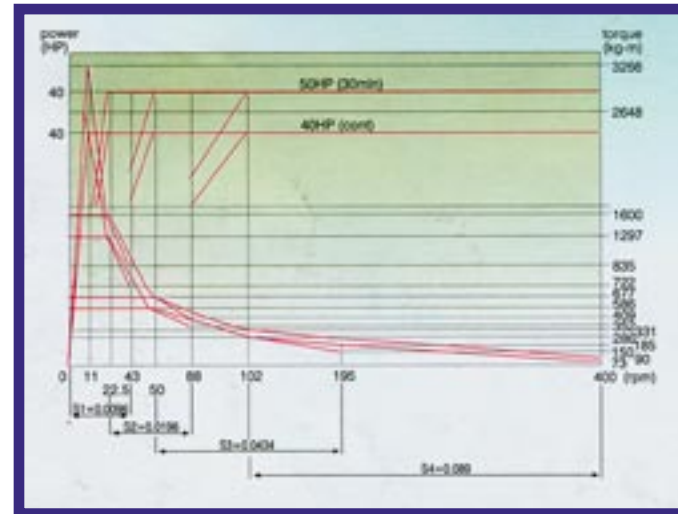


ING CAPABILITIES

CONSTRUCTION FEATURES

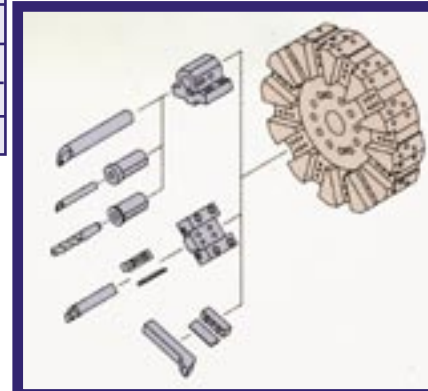
- * 45/60° slant bed design insures maximum stability & chip management.
- * Massive heavy-duty meehanite castings used throughout.
- * Heavy-duty massive 4 range headstock with large bores.
- * Powerful high torque spindle drive and motor (40-60HP).
- * Hardened and precision ground bed ways are coated with turcite-B.
- * Bed ways protected by telescoping guards.
- * Precision large diameter ballscrews providing longevity and accuracy.
- * Fast precision turret providing 1 second tool change.
- * Heavy-duty massive and versatile programmable tailstock.
- * Full enclosure splash guarding for chip/coolant control and safety.
- * Hydraulic oil chiller unit to provide maximum stability.
- * Digital scale feedback for maximum accuracy.
- * FANUC 18iT CNC

SPINDLE TORQUE POWER CHART



Spindle nose		A2-11(6")	A2-15(9")	A2-15(10")	A2-20(12")	A2-20(14")	A2-28(16")	A2-28(21")	
Spindle Speeds	Range	1	20-140	16-120	13-95	14-100	12-85	10-75	8-60
		2	38-240	30-200	25-185	26-180	23-160	18-110	15-95
		3	95-550	70-420	60-400	60-350	55-300	45-250	35-200
		4	200-1200	150-700	120-600	130-450	95-400	65-350	55-300

12 STATION TURRET



Standard VDI or polygon tooling



Model CSX 40U120
Heavy-Duty Universal CNC Turning Center
with 16" bore and front and rear chucks

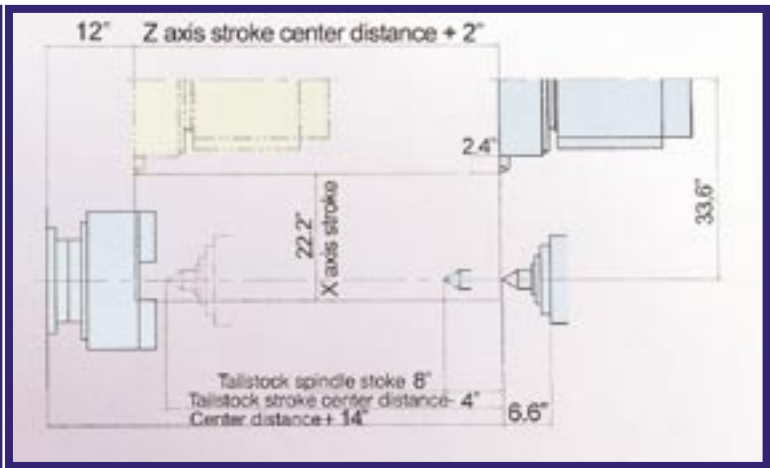
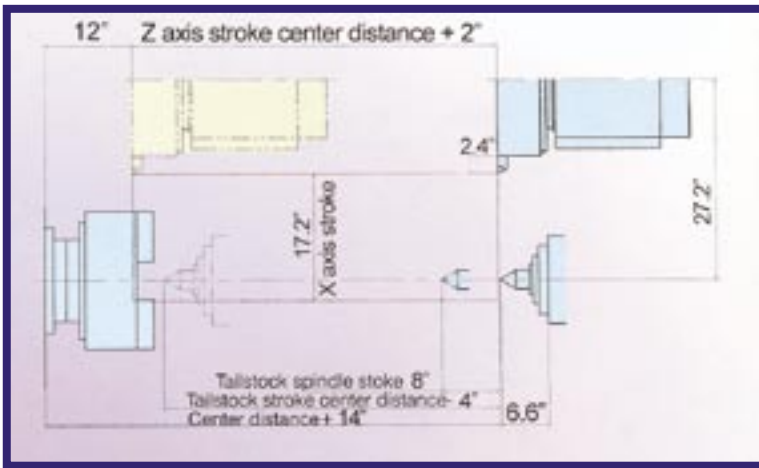
CSW SERIES

High Speed Aluminum Wheel Turning Machine
2000rpm spindle can handle up to 25" wheels

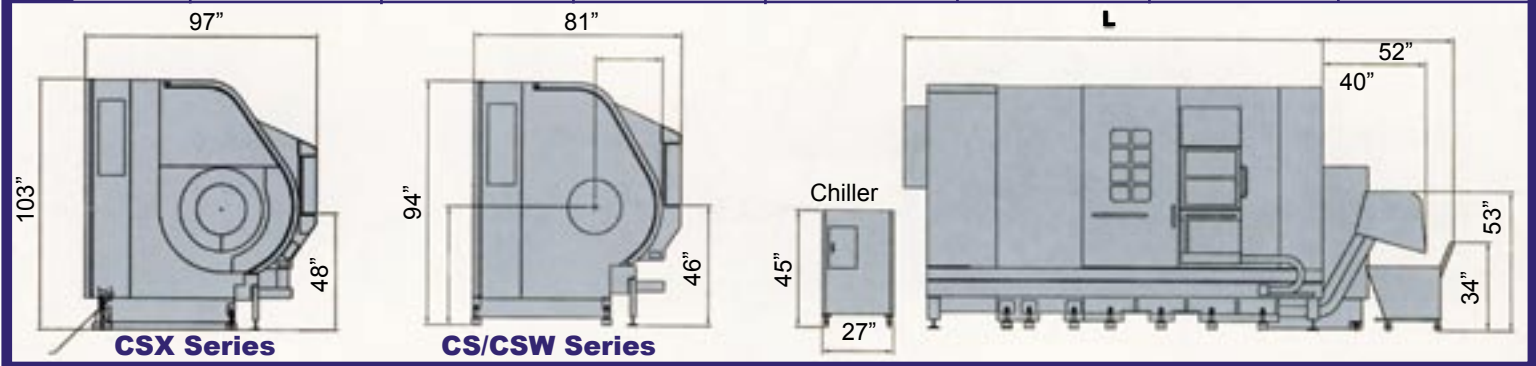


CS Series Working Range

CSX Series Working Range



Center distance	28"	48"					
L CS Series	162"	182"					
CSX Series	178"	197"					



Model	CS Series			CSX Series			CSW Series		
	21U	25U	29U	29U	34U	40U	21CSW	25CSW	
Swing over bed	27.5"	31"	35"	35"	40"	45"	27.5"	31"	
Swing over crossslide	21.6"	25"	29"	29"	34"	39"	21.6"	25"	
Maximum cutting diameter	27.5"	31"	35"	35"	40"	45"	27.5"	31"	
Distance between centers	28,	47,	67,	87,	126,	165,	205	N/A	N/A
Bed width	45"	45"	45"	53.5"	53.5"	53.5"	45"		
Bed way width	32.7"	32.7"	32.7"	37.4"	37.4"	37.4"	33"		
Crossslide width	19.7"	19.7"	19.7"	23.6"	23.6"	23.6"	19.7"		
OD turret positions	Baruffaldi TB 320			12	Baruffaldi TB 400		Baruffaldi TB 320	12	
ID turret positions				12			12		
Standard OD tool shank	1.25" x 1.25"						1.25" x 1.25"		
Maximum boring bar diameter	2.5"	2.5"	2.5"	4"	4"	4"	2.5"		
Ballscrew diameter	X 1.8", Z 2.5"	X 1.8", Z 2.5"	X 1.8", Z 2.5"	X 2", Z 3"	X 2", Z 3"	X 2", Z 3"	X 2", Z 3"		
Quill type	Built-in type, rotating tailstock quill			Built-in type, rotating tailstock quill			N/A		
Quill diameter	6.3"	6.3"	6.3"	9.25"	9.25"	9.25"	N/A		
Quill travel	7.9"						N/A		
Quill taper	#5MT			#6MT			N/A		
Spindle drive motor (HP)	40 Cont / 50Mtdr. (50 / 60 Optional)			50 Cont. / 60 Mtdr.			40Cont/50Mtdr.(50 /60Opt)		
Machine weight (28" Centers)	24200 lbs	25080 lbs	26000 lbs	36300 lbs	37400 lbs	38500 lbs	22800 lbs	23760 lbs	
	48" add 3300lb, 68"- 6600lb, 88"- 9900lb, 120"- 16500 lb, 160"- 23100lb, and for 200" machine add 29700 lb			48" add 4840 lb, 68"- 9680lb, 88"- 14520lb, 120"- 24200lb, 160"- 33,800lb, and for 200" machine add 43560lb			N/A		N/A

Machine Specifications and Features shown in this brochure are provided as a guide only and are subject to change without notice