

CINCINNATI MACHINES

SMART

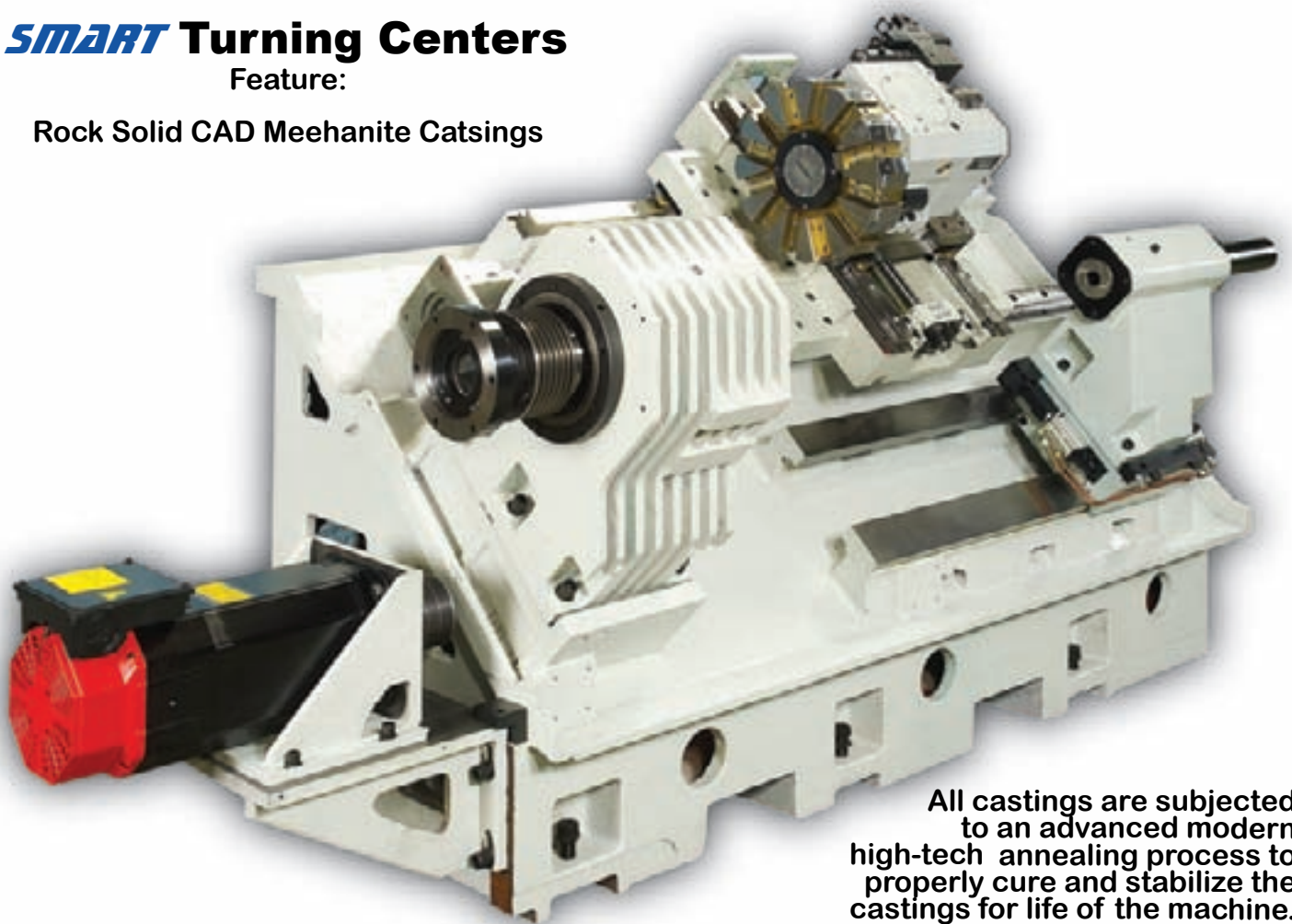
High Speed Precision Turning Centers



SMART Turning Centers

Feature:

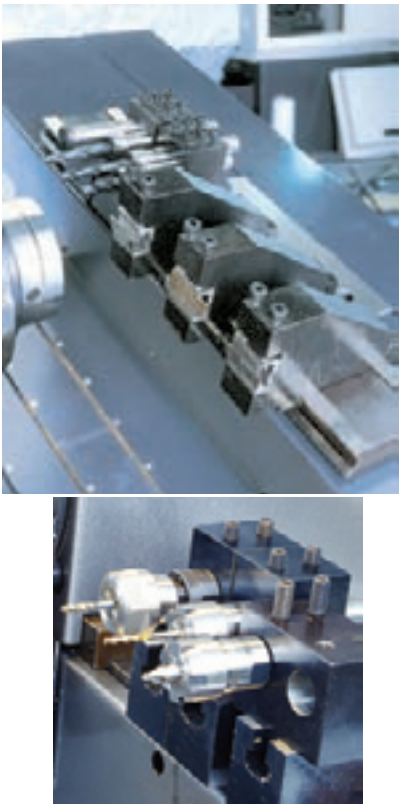
Rock Solid CAD Meehanite Castings



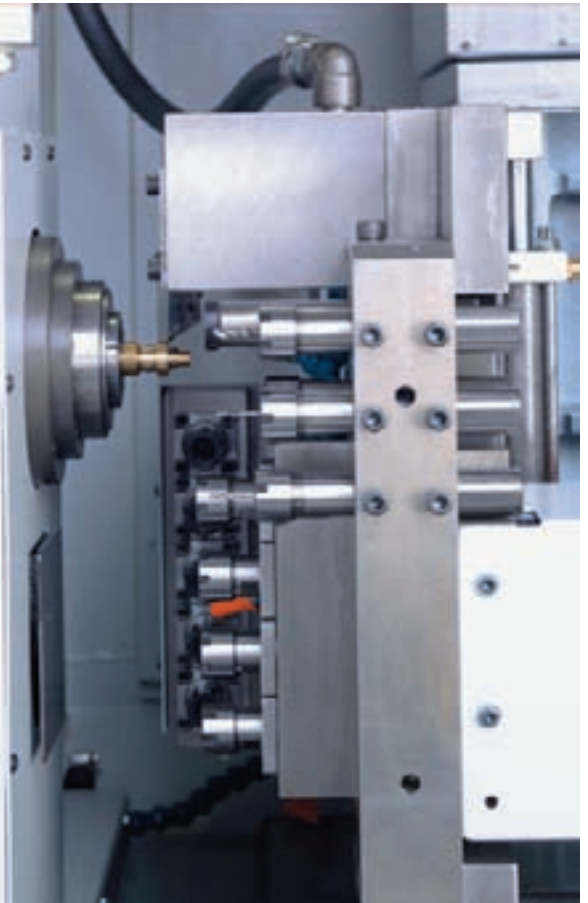
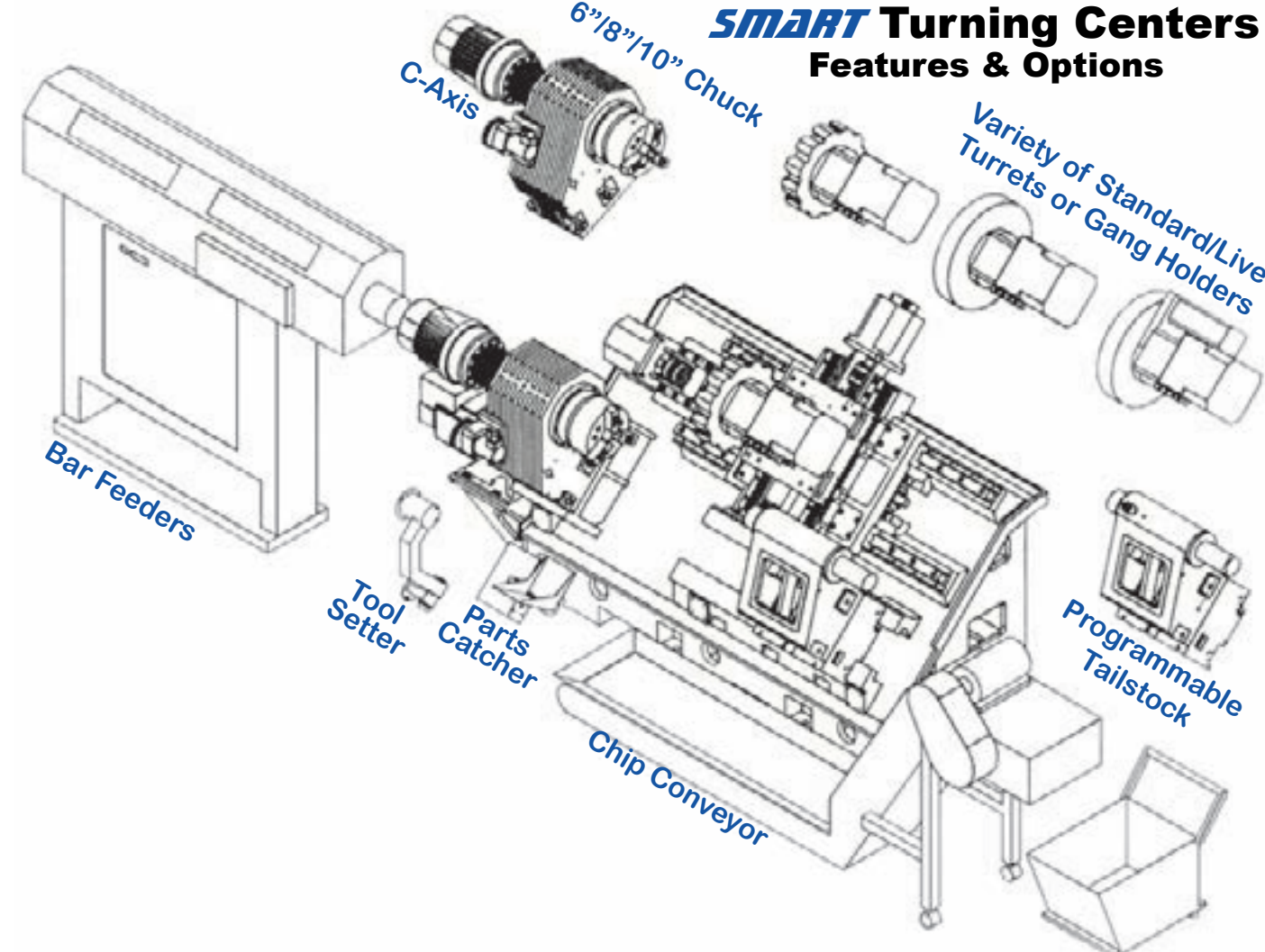
All castings are subjected to an advanced modern high-tech annealing process to properly cure and stabilize the castings for life of the machine.



Depending on your specific machining and production requirements, you may want to choose the gang tooling option,



SMART Turning Centers
Features & Options



Standard or Live Turrets and gang tooling for turning and or milling are available as you request.

More examples of gang style tooling, including hydraulic live tool holders for milling operations. If you have a very high-production turning application, please provide the machining requirements and production rates, and we can provide a turnkey system to handle your difficult turning job.

SMART		42	42M/L			52S	52/52L	75/75L
Capacity				Capacity				
Max. Swing over bed	mm	400	400	Max. Swing over bed	mm	540	690	690
Max. Over cross side	mm	180	180	Max. Over cross side	mm	460	530	530
Max. turning Dia	mm	150	150	Max. turning Dia	mm	280	350	450
Max. turning length	mm	120	180	Max. turning length	mm	400	600/1000	600/1000
Draw tube bore	mm	42	51/64	Draw tube bore	mm	51	51	72
Spindle				Spindle				
Spindle drive motor	hp	10	10/15(Opt)	Spindle drive motor	hp	15	15/20(Opt)	20/25(Opt)
Spindle speed range	rpm	6000	4200	Spindle speed range	rpm	4000	4000	3000
Spindle nose		A2-5	A2-6	Spindle nose		A2-6	A2-6	A2-8
Spindle bore thru diameter	mm	52	61/75	Spindle bore thru diameter	mm	61	61	91
Chuck diameter		F48	CP60	Chuck diameter	in	8"	8"/10"(Opt)	10"/12"(Opt)
Axis travel				Axis travel				
X-axis travel	mm	350	350	X-axis travel	mm	155	190	230
Z-axis travel	mm	210	210	Z-axis travel	mm	430	630/1030	630/1030
X-axis rapid federate	m/min	20	20	X-axis rapid federate	m/min	20	20	20
Z-axis rapid federate	m/min	20	20	Z-axis rapid federate	m/min	20	20	20
Turret				Turret				
Tool station		10	10	Tool station		10	12	12
Index time next station	sec.	0.23	0.23	Index time next station	sec.	0.5	0.23	0.23
Height of square tool	mm	20	20	Height of square tool	mm	25	25	25
Diameter of boring bar holder	mm	20	20	Diameter of boring bar holder	mm	40	40	40
Gang type tools				Tailstock				
Tool station		4	4	Travel of tailstock	mm	280	480/880	480/880
Dia of boring bar holder	mm	20	20	Dia of tailstock hole	mm	85	85	110
Other				Travel of tailstock shaft	mm	110	110	110
Coolant pump	hp	1/4	1/4	Taper of tailstock		MT4	MT4	MT5
Coolant tank capacity	L	150	150	Other				
Height of machine	mm	1700	1700	Coolant pump	hp	1/2	1/2	1/2
Floor space	mm	3200*1520	3200*1520	Coolant tank capacity	L	180	220	220
Net weight	kgs	2800	3300	Height of machine	mm	1820	1820	1820
				Floor space	mm	3650*1700	3810(4210)*1700	3810(4210)*1700
				Net weight	kgs	3800	4500/5000	4700/5400