

Bourn & Koch
Mach Turning
Solutions



Bourn & Koch Motch designs, engineers, builds and services state-of-the-art Vertical Turning Machines, Vertical Grinders, Self-Loading Horizontal and Vertical Turning Centers and Engineered Systems that help maximize long-term productivity, improve quality and reduce production costs in thousands of applications all around the world.

Since 1904, Bourn & Koch Motch has delivered the latest in machine tool technology for its customers with one purpose—to maximize long-term productivity. Today, Bourn & Koch Motch turning and grinding machines are used in thousands of applications world wide.

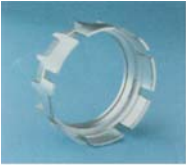
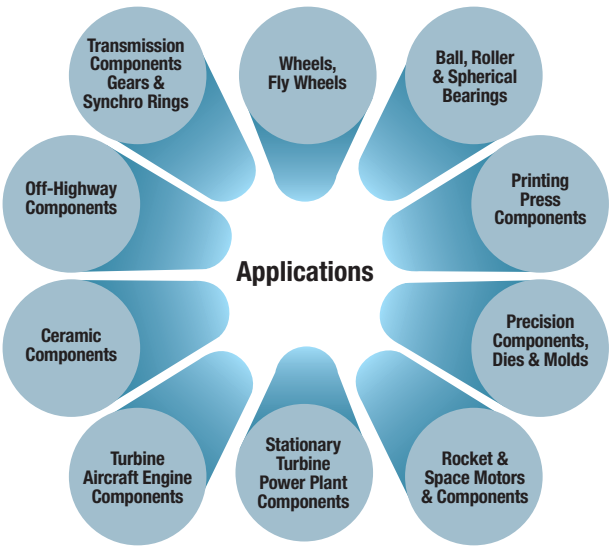
With our dynamic ownership and the strongest management team in our history, the new Bourn & Koch Motch is poised on the threshold of aggressive growth and new product development.

- Stock Machines Available
- Repair Parts and Service
- Trade-in of Used Equipment
- Remanufactured Machines



Bourn & Koch, Inc., Rockford, IL

Turning Applications



Transmission Part



Wheel



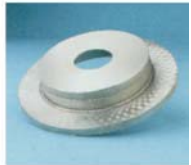
Auto Case



Clutch Parts



Bearing Components



Brake Rotor



Annulus Gear



Rear Extension Housing



Differential Case



Wheel Hub



Rock Bit



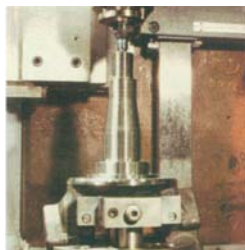
Truck Part

Single-Spindle Vertical Numerical Chuckers



	115-VNC	119-VNC	125-VNC
Swing	18" 457mm	25" 635mm	25" 635mm
Slide Travel			
X Axis	8.25" 210mm	12.5" 318mm	20" 508mm
Z Axis	17" 432mm	17" 432mm	18" 457mm
	135-VNC	142-VNC	152-VNC
Swing	35" 889mm	42" 1067mm	52" 1321mm
Slide Travel			
X Axis	28" 711mm	28" 711mm	28" 711mm
Z Axis	24" 610mm	24" 610mm	30" 762mm

Tailstock Models 125TS-VNC and 130TS-VNC

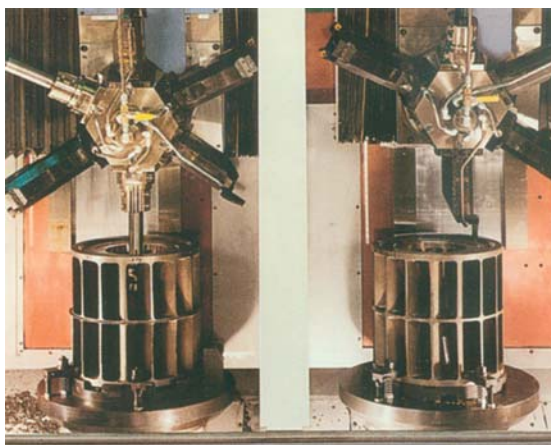


	125TS-VNC	130TS-VNC
Swing	25" 635mm	40" 1016mm
Slide Travel		
X Axis	14" 355mm	14" 355mm
Z Axis	18" 457mm	24" 610mm

Double-Spindle Vertical Numerical Chuckers



	215D-VNC	219D-VNC	225D-VNC
Swing	18" 457mm	25" 635mm	25" 635mm
Slide Travel			
X Axis	8.25" 210mm	12.5" 318mm	20" 508mm
Z Axis	17" 432mm	17" 432mm	18" 457mm
	235D-VNC	242D-VNC	
Swing	35" 889mm	42" 1067mm	
Slide Travel			
X Axis	20" 508mm	28" 711mm	
Z Axis	18" 457mm	24" 610mm	



MVSL Vertical Self-Loading Turning Centers



	MVSL 200		MVSL 315	
Swing	11.81"	300mm	15"	380mm
Slide Travel				
X Axis	6"	152mm	11.2"	285mm
Z Axis	9.84"	250mm	12.99"	330mm
	MVSL 450		MVSL 450XL	
Swing	22"	560mm	22"	560mm
Slide Travel				
X Axis	9"	229mm	15.5"	394mm
Z Axis	16.53"	420mm	16.53"	420mm

MVSL 200 Link-Line™ Configuration*



MVSL 200 Link Line™ – Each Machine

Swing	11.81"	300mm
Slide Travel		
X Axis (Work Area)	6"	152mm
Z Axis (Load/Unload)	35.43"	900mm
Z Axis	9.84"	250mm

*Two-machine configuration shown, linked by transfer/turnover station.

SL Horizontal Self-Loading Turning Centers



SL Single Spindle

Swing	12"	305mm
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Slide Travel

X Axis	23.5"	597mm
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Z Axis	8.5"	216mm
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SL Double Spindle

Swing	10.24"	260mm
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Slide Travel

X Axis	23.5"	597mm
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Z Axis	8.5"	216mm
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BOURN & KOCH MOTCH TURNING SOLUTIONS

	Single-Spindle Vertical Numerical Chuckers						Tailstock Machines		Double-Spindle Vertical Numerical Chuckers					MVSL Vertical Self-Loading Turning Centers				SL Horizontal Self-Loading Turning Centers	
	115-VNC	119-VNC	125-VNC	135-VNC	142-VNC	152-VNC	125TS-VNC	130TS-VNC	215D-VNC	219D-VNC	225D-VNC	235D-VNC	242D-VNC	MVSL 200	MVSL 315	MVSL 450	MVSL 450XL	SL Single Spindle	SL Double Spindle
Swing	18" 457mm	25" 635mm	25" 635mm	35" 889mm	42" 1067mm	52" 1321mm	25" 635mm	40" 1000mm	18" 457mm	25" 635mm	25" 635mm	35" 889mm	42" 1067mm	11.81" 300mm	15" 380mm	22" 560mm	22" 560mm	12" 305mm	10.24" 260mm
Spindle Nose	A2-8	A2-11	A2-11	A2-15	A2-20	A2-28	A2-11	A2-15	A2-8 [2]	A2-11 [2]	A2-11 [2]	A2-15 [2]	A2-20 [2]						
Spindle Flat Nose														6.69" 170mm	8.66" 220mm	11.81" 300mm	11.81" 300mm	6.69" 170mm	6.69" [2] 170mm
Spindle Speed Range (RPM)	50-3500	280-2800	240-2410	100-1000	60-600	55-572	280-2800	100-1000	50-3500	280-2800	130-1300	100-1000	60-600	50-7000	11-4000	0-3600	0-3600	11-4000	11-4000
Spindle AC/DC									[2]	[2]	[2]	[2]	[2]	Motorized Spindle-AC Drive (Continuous)				Motorized Spindle-AC Drive (Continuous)	
Belt/Gear	AC-Belt†	AC-Belt†	DC-Belt†	DC-Gear	DC-Gear	DC-Gear	AC-Belt†	AC-Belt†	AC-Belt†	AC-Belt†	DC-Gear	DC-Gear	DC-Gear	Motorized Spindle-AC Drive (Continuous)				Motorized Spindle-AC Drive (Continuous)	
Horsepower	30HP 22kW	50HP 37kW	75HP 56kW	75HP 56kW	75HP 56kW	75HP 56kW	50HP 37kW	75HP 56kW	30HP 22kW	50HP 37kW	50HP 37kW	75HP 56kW	75HP 56kW	30HP 22kW	45HP 34kW	60HP 45kW	60HP 45kW	30HP 22kW	37.5HP [2] 28kW
Slide Travel																			
X Axis (Work Area)	8.25" 210mm	12.5" 318mm	20" 508mm	28" 711mm	28" 711mm	28" 711mm	14" 355mm	14" 355mm	8.25" 210mm	12.5" 318mm	20" 508mm	20" 508mm	28" 711mm	6" 152mm	11.2" 285mm	9" 229mm	15.5" 394mm	23.5" 597mm	23.5" 597mm
Y Axis (Load/Unload)														35.43" 900mm	43" 1092mm	43" 1092mm	60" 1524mm		
Z Axis	17" 432mm	17" 432mm	18" 457mm	24" 610mm	24" 610mm	30" 762mm	18" 457mm	24" 610mm	17" 432mm	17" 432mm	18" 457mm	18" 457mm	24" 610mm	9.84" 250mm	12.99" 330mm	16.53" 420mm	16.53" 420mm	8.5" 216mm	8.5" 216mm
Slide Feed Rates*																			
X & Z Axes	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-75" 0-1.9m	0-75" 0-1.9m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-125" 0-3m	0-75" 0-1.9m				0-125" 0-3m	0-125" 0-3m
Rapid Traverse Rates*																			
X Axis	0-475" 0-12m	0-475" 0-12m	0-300" 0-7.6m	0-300" 0-7.6m	0-250" 0-6.4m	0-250" 0-6.4m	0-425" 0-7.6m	0-300" 0-10m	0-475" 0-12m	0-475" 0-12m	0-300" 0-7.6m	0-300" 0-7.6m	0-250" 0-6.4m					0-1181" 0-30m	0-1181" 0-30m
Z Axis	0-475" 0-12m	0-475" 0-12m	0-300" 0-7.6m	0-300" 0-7.6m	0-250" 0-6.4m	0-250" 0-6.4m	0-425" 0-7.6m	0-300" 0-10m	0-475" 0-12m	0-475" 0-12m	0-300" 0-7.6m	0-300" 0-7.6m	0-250" 0-6.4m					0-787" 0-19.9m	0-787" 0-19.9m
X Axis (Load/Unload)														0-1181" 0-30m	0-1575" 0-40m	0-1575" 0-40m	0-1181" 0-30m		
X & Z Axes (Working)														0-945" 0-24m	0-945" 0-24m	0-945" 0-24m	0-945" 0-24m		
Turret Stations	6**	6**	6**	6**	6**	6**	6**	6**	6**	6**	6**	6**	6**	8-VDI 40††	8-VDI 50††	8-VDI 50††	8-VDI 50††	8-VDI 40††	8-VDI 40††
Machine Weight	11,875 lbs.	12,100 lbs.	18,600 lbs.	28,500 lbs.	29,250 lbs.	30,750 lbs.	21,100 lbs.	24,500 lbs.	23,750 lbs.	25,000 lbs.	37,000 lbs.	38,000 lbs.	52,000 lbs.	7,150 lbs.	15,400 lbs.	16,000 lbs.	19,500 lbs.	12,100 lbs.	20,900 lbs.
	5386 kg	5489 kg	8437 kg	12,928 kg	13,268 kg	13,948 kg	9525 kg	11,113 kg	10,773 kg	11,340 kg	16,783 kg	17,237 kg	23,587 kg	3243 kg	6985 kg	7258 kg	8845 kg	5489 kg	9480 kg

*Per Minute. †Gear Drive option available. ** 6-station turrets can be double-tooled. † 8-station turrets can be double-tooled. †† 12-station optional. We reserve the right to change specifications without notice.



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