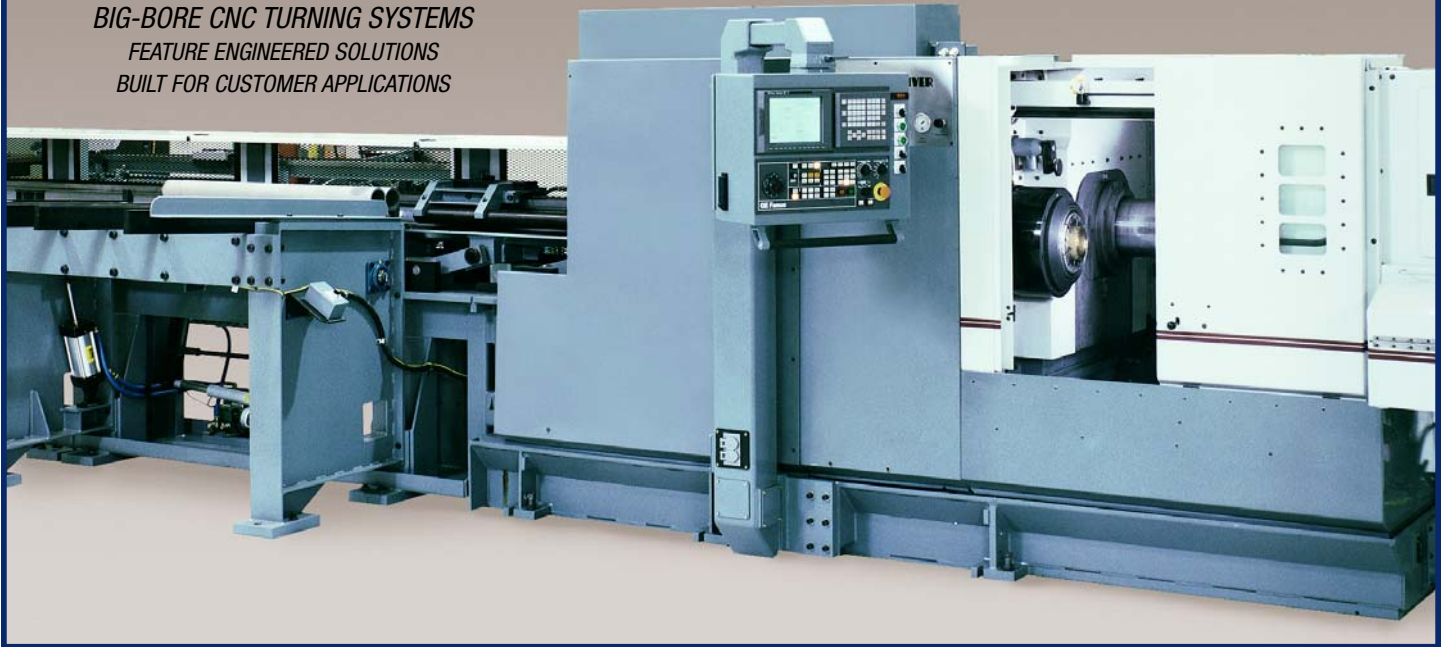


# Large Diameter Bar & Tube Processing Made Easy

*BIG-BORE CNC TURNING SYSTEMS  
FEATURE ENGINEERED SOLUTIONS  
BUILT FOR CUSTOMER APPLICATIONS*

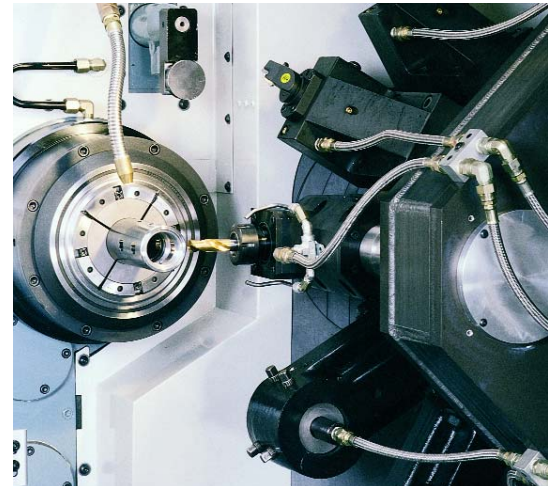


## 3" 5" 6.5" 8" 10" or 12" Thru-Hole Capacities

### *All B&O Big-Bore Machines feature:*

- High Spindle Speeds  
Up to 3,000-RPM
- Advanced Spindle Design  
Angular Contact Ball Bearings  
Polymer Composite Housing Construction  
Protective Closure Systems  
Maintenance-Free Bearing Lubrication
- High-Horsepower AC Spindle Drive  
40, 54 or 80-HP
- GE-Fanuc 32i-Series CNC Control  
Digital AC Servo Drive Systems
- Heavy-Duty Cast Iron Machine Base  
2" x 4" Hardened Steel Box Ways
- Maximum Thermal Stability and Vibration Damping
- Optional Independent Cut-Off Slide  
Programmable and Servo Driven
- Bar & Tube Loading Systems  
Automatic Magazine Loading  
Handles Incoming Material up to 40-Ft long  
Optional Bundle Unscrambler
- Part Unload and Remnant Removal Systems  
Unloads Finished Parts up to 10, 15, 22 & 32-Ft long

These high-performance machines are domestically built at a competitive price, available with prompt delivery and feature full factory support and training. Call, fax or e-mail us for details.



*In addition to its large collet capacity, the Big-Bore Line offers 12 or 15 station, interference-free turrets with optional live tooling.*

## **BARDONS & OLIVER**

Engineered Solutions Built for Customer Applications

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<http://www.bardonsoliver.com>

# Big-Bore 2-Axis CNC Turning Machines

## (3.00" - 8.00" Capacity)

	1SC-300	2SC-500	2SC-650	2SC-800
<b>COLLET (STD)</b>	3.00" COLLET	5.00" COLLET	6.50" COLLET	8.00" COLLET
<b>CHUCK (OPT)</b>	12"	15"	15" & 18"	18"
<b>SPINDLE NOSE</b>	8"-A2	11"-A2	11"-A2	15"-A2
<b>SPINDLE BORE</b>	3.03"	5.03"	6.53"	8.03"
<b>ROUND BAR CAPACITY (MAX)</b>	3.00"	5.00"	6.50"	8.00"
<b>MAX TURNING LENGTH</b>	15.13"	16.25"	16.25"	16.25"
<b>MAX TURNING DIAMETER</b>	12.00"	15.00"	15.00"	15.00"
<b>CNC CONTROL</b>	FANUC 32i - SERIES	FANUC 32i - SERIES	FANUC 32i - SERIES	FANUC 32i - SERIES
<b>SPINDLE SPEED RANGE (STD)</b>	35-3,000-RPM BELT-DRIVEN	35-3,000-RPM BELT-DRIVEN	35-2,000-RPM BELT-DRIVEN	35-1,600-RPM BELT-DRIVEN
<b>SPINDLE DRIVE (STD)</b>	FANUC ALPHA HVI	FANUC ALPHA HVI	FANUC ALPHA HVI	FANUC ALPHA HVI
<b>SPINDLE HORSEPOWER (STD)</b>	60-MIN RATING	54-HP CONTINUOUS 60-MIN RATING	54-HP CONTINUOUS 60-MIN RATING	54-HP CONTINUOUS 60-MIN RATING
<b>SERVO DRIVE SYSTEM</b>	FANUC ALPHA HVI AC DIGITAL	FANUC ALPHA HVI AC DIGITAL	FANUC ALPHA HVI AC DIGITAL	FANUC ALPHA HVI AC DIGITAL
<b>MAX AXIS FEED RATE MAX AXIS TRAVERSE RATE</b>	200-IPM 400-IPM	200-IPM 400-IPM	200-IPM 400-IPM	200-IPM 400-IPM
<b>X-AXIS TRAVEL Z-AXIS TRAVEL</b>	6.25" 8.75"	7.75" 12.00"	7.75" 12.00"	7.75" 12.00"
<b>TURRET / STATIONS</b>	12-STD 15-OPT BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STD 15-OPT BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STD 15-OPT BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STD 15-OPT BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE
<b>TOOL SHANK SIZE (STD)</b>	1.00" x 5.00"	1.25" x 6.00"	1.25" x 6.00"	1.25" x 6.00"
<b>MAX BORING BAR DIAMETER</b>	2.50"	3.00"	3.00"	3.00"
<b>LIVE TOOLING HP (OPT) LIVE TOOLING TORQUE LIVE TOOLING COLLET SIZE</b>	10-HP 795 IN-LB CONT ER40 (1.181")	10-HP 795 IN-LB CONT ER40 (1.181")	10-HP 795 IN-LB CONT ER40 (1.181")	10-HP 795 IN-LB CONT ER40 (1.181")
<b>ELECTRICAL POWER</b>	460-VAC 3-PH 60-HZ 75-KVA	460-VAC 3-PH 60-HZ 90-KVA	460-VAC 3-PH 60-HZ 90-KVA	460-VAC 3-PH 60-HZ 90-KVA
<b>COOLANT CAPACITY</b>	55-GAL	80-GAL	80-GAL	80-GAL
<b>MACHINE HEIGHT</b>	94.00"	94.00"	94.00"	94.00"
<b>FLOOR SPACE</b>	92"-W x 162"-LG	130"-W x 166"-LG	130"-W x 166"-LG	130"-W x 166"-LG
<b>MACHINE WEIGHT</b>	14,500-LB	20,000-LB	20,500-LB	21,500-LB