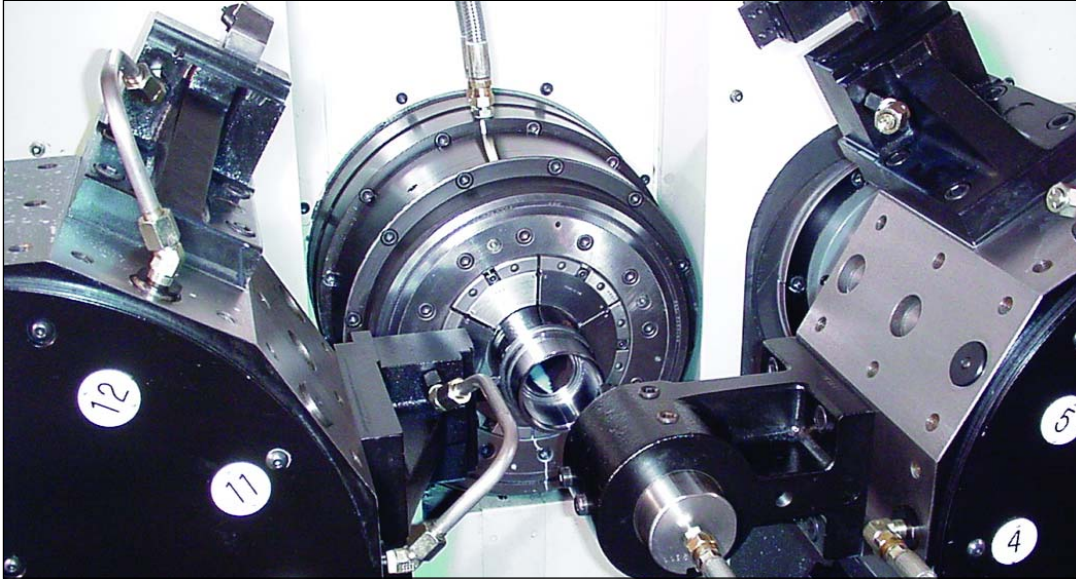


# Bardons & Oliver 4-AXIS TURNING



Fastest Spindle Speeds

Largest Thru-Hole Capacities

Highest Spindle Horsepower

Greatest Z-Axis Thrust Capacity

Column-Style Machine Design

- Heavy Machine Base
- Rigid Turret & Slide
- Free-Falling Chip Flow

12 or 15 Stations Per Turret

- Interference-Free Tool Design
- Optional Live Tooling

Low Maintenance Coolant Management

Automated Part Load/Unload

Proven Durability & Reliability

Application-Driven Machine Configurations

**THRU-HOLE CAPACITIES**  
3" 5" 6.5" 8" 9"

**CHUCK CAPACITIES**  
12" 15" 18"

**= HIGHEST PRODUCTION  
GREATEST FLEXIBILITY**

**BARDONS & OLIVER**

## 4-AXIS BIG-BORE CNC TURNING MACHINES

	SC-304	SC-500	SC-650	SC-800
COLLET (STD)	3.00" COLLET	5.00" COLLET	6.50" COLLET	8.00" COLLET
CHUCK (OPT)	12"	12"-15"	12"-15"	15"-18"
SPINDLE NOSE	8"-A2	11"-A2	11"-A2	15"-A2
SPINDLE BORE	3.03"	5.03"	6.53"	8.03"
ROUND BAR CAPACITY	3.00"	5.00"	6.50"	8.00"
MAX TURNING LENGTH	9.00"	9.00"	9.00"	9.00"
MAX TURNING DIAMETER	12.00"	15.00"	15.00"	18.00"
TURRET BAR DIAMETER	7.00"	7.00"	7.00"	7.00"
CNC CONTROL	GE-FANUC 16i/18i	GE-FANUC 16i/18i	GE-FANUC 16i/18i	GE-FANUC 16i/18i
SPINDLE SPEED RANGE (STD)	35-3,000 RPM (BELT)	35-3,000 RPM (BELT)	35-2,000 RPM (BELT)	35-1,600 RPM (BELT)
SPINDLE DRIVE	GEF or SIEMENS AC	GEF or SIEMENS AC	GEF or SIEMENS AC	GEF or SIEMENS AC
SPINDLE HORSEPOWER	30-HP (STD) 40-HP (OPT) 60-MIN RATING	40-HP (STD) 54-HP (OPT) 60-MIN RATING	54-HP (STD) 80-HP (OPT) 60-MIN RATING	54-HP (STD) 80-HP (OPT) 60-MIN RATING
SERVO DRIVE SYSTEM	GE-FANUC ALPHA AC DIGITAL	GE-FANUC ALPHA AC DIGITAL	GE-FANUC ALPHA AC DIGITAL	GE-FANUC ALPHA AC DIGITAL
MAX AXIS FEED RATE	200-IPM	200-IPM	200-IPM	200-IPM
MAX AXIS TRAVERSE RATE	400-IPM	400-IPM	400-IPM	400-IPM
X-AXIS (X1 & Y2) TRAVEL	6.25"	7.75"	7.75"	9.25"
Z-AXIS (Z1 & Z2) TRAVEL	9.00"	9.00"	9.00"	9.00"
TURRET (T1 & T2) (STD)	12-STATION BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STATION BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STATION BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE	12-STATION BI-DIRECTIONAL SKIP-INDEX INDEX ANYWHERE
TOOL SHANK SIZE (STD)	1.00" x 5.00"	1.00" x 5.00"	1.00" x 5.00"	1.00" x 5.00"
MAX BORING BAR DIAM	2.50"	2.50"	2.50"	2.50"
LIVE TOOLING HP (OPT)	10-HP	10-HP	10-HP	10-HP
LIVE TOOLING TORQUE	795 IN-LB CONT	795 IN-LB CONT	795 IN-LB CONT	795 IN-LB CONT
LIVE TOOL COLLET SIZE	ER40 (1.118")	ER40 (1.118")	ER40 (1.118")	ER40 (1.118")
ELECTRICAL POWER	460-VAC 3-PH 60-HZ 75-KVA	460-VAC 3-PH 60-HZ 75-KVA	460-VAC 3-PH 60-HZ 90-KVA	460-VAC 3-PH 60-HZ 90-KVA
COOLANT CAPACITY	80-GAL	80-GAL	80-GAL	80-GAL
MACHINE HEIGHT	94.00"	94.00"	94.00"	94.00"
FLOOR SPACE (W x L)	124" x 130"	128" x 130"	128" x 130"	130" x 130"
SHIPPING DIMENSIONS (W x L x H)	104" x 124" x 94"	104" x 128" x 94"	104" x 128" x 94"	104" x 130" x 94"
MACHINE WEIGHT	20,500-LB	25,500-LB	26,500-LB	27,500-LB

# BARDONS & OLIVER

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