



Johnford SL-500A Turning Center

Capacities

Swing over bed/Front cover	22.8"
Standard turning diameter	17.7"
Swing over carriage	17.7"
Maximum cross travel (X axis)	9.45"
Maximum longitudinal travel (Z axis)	23.2"
Distance between centers	28"

Spindle

Spindle Motor	35 HP + 2 speed gearbox
Spindle nose	A2-11
Spindle RPM	20-2800 (12" Chuck)
Hole through spindle	4.52"
Bar Capacity	4.015"
Spindle bearing diameter	6.3"
Spindle inside taper	M.T. 7
Hydraulic chuck	12" 3-Jaw

Turret (standard)

Turret tool positions	12
Turret type	Hyd. cam index / hyd.clamp
Tool mounting	Block type
O.D. tool shank size	1.25"
I.D. tool shank size	2.0"
Index time	0.6 sec. next tool / 2 sec. 180 deg.

Tailstock

Quill diameter of tailstock	3.35"
Quill stroke of tailstock	3.94"
Quill taper of tailstock	M.T. 5
Tailstock body travel	20.1"

Ballscrews and axis motors

Z axis ballscrew diameter	50mm (2") x 12 pitch
X axis ballscrew diameter	40mm (1.57") x 10 pitch
Ballscrew type	Class 3 double nut pre-loaded
Ballscrew mounting type	Pre-tensioned
X-Z servo motor HP	X 5.2HP, Z 5.2 HP

Feeds

Rapid Traverse Rate X,Z	590, 708 IPM
Cutting feed rate	0.01 - 315 IPM
Positioning accuracy	+/- .0002" full stroke
Repeatability	+/- .0001"

General

Coolant tank capacity	65 gallons
Coolant pump motor	1.7HP
Machine Weight	16,000 LBS
Floor Space	170" X 91" x 88"
Machine Power Source	208/220 Volts, 3 Phase 125 Amps
Hydraulic pump motor	3HP

Standard Machine Accessories

Complete coolant system
Splash guards
Built-in work light
Hydraulic 12" chuck
Soft jaws
Workpiece counter
1 set of Instruction manuals
Chip conveyor
3 color operation light
Spindle orientation
Hydraulic, programmable tailstock body and quill