



## **CPL-3010SY**

### **High Performance Turning Center With Y axis, Live Tool and Sub-spindle**

The CPL-3010SY was designed to meet our customers' needs for a flexible, highly productive and cost effective machine. The CPL-3010SY turning center is designed to provide superior rigidity, accuracy and surface finishes. Milling and drilling with live tooling, a true Y-Axis plus a sub-spindle adds to the versatility of this model. High-speed turret indexing, quick spindle acc./dec. times and fast rapid traverse rates minimize non-cutting time. Classic manufacturing methods and ultra rigid construction are combined with advanced technological features to provide exceptional value.

#### **FEATURES:**

- Y axis 4.33"( +/- 2.16")
- Live Tooling with C-axis
- Sub-spindle with Full C axis
- Wide full power range 30 HP Built In Spindle Motor
- 2.95" Bar capacity
- 4,000 RPM Spindle
- 0.2 Second turret indexing
- Rigid one piece box design bed
- Separate 65 gallon coolant tank
- Pretension ball screws with "Double anchored" support system on all three axes
- 787 IPM rapid traverse
- 18,739 Lbs. machine weight
- FANUC 0iTF Control



## **SPECIAL DETAILS:**

- **Consistent accuracy**
  - ✓ Symmetrical headstock design eliminates thermal expansion in the X axis direction.
  - ✓ Optimal pre-load of high quality ballscrews with double anchored support minimizes ballscrew thermal expansion.
  - ✓ Heat ventilation design of bed and splash guard also aid in thermal expansion control.
- **Powerful spindle**

Powerful 30-hp spindle allows an increased depth of cut which reduces the number of roughing passes required.
- **Rugged Box Way System**

High precision ground box ways allow vibration free heavy duty cutting and superior surface finishes.
- **Fast, Rigid and Reliable Servo Turret**

Quick and accurate turret indexes (0.2 sec, 1 station / 0.6 sec 7 stations) are accomplished by use of a high performance AC servo motor and 3- piece coupling construction.
- **Live tooling with Y-axis and C-axis**

Milling and drilling operations can be performed by way of live tool turret. Since the milling operations can be finished on the lathe, there is no need to set up and run a second operation on a separate machining center.
- **Sub-spindle**

Opposite “sub-spindle” moves on its own axis (B) to accept parts from the main spindle. Second side turning operations can be accomplished with tools mounted on the rear side of the turret.
- **Separate Chip Box and Coolant Tank**

Large capacity (65-gal) coolant tank is designed to prevent heat transfer and is easily removed. Separate type chip box is provided for convenient emptying and cleaning. Additionally, operator can remove chips during machine operation.



### STANDARD EQUIPMENT:

▪ Fanuc 0i TF control	Provided
▪ Hollow chuck with 1 set of soft jaws	10" (Main)
▪ Hollow chuck with 1 set of soft jaws	6" (Sub)
▪ Foot switch for chuck open/close	1 set
▪ Spindle speed override	50~150%
▪ Spindle rpm meter	1 set
▪ Spindle load meter	1 set
▪ Axial and Radial Live Tool Holders	2 each – total 4
▪ Coolant supply system	Provided
▪ Tool box and manuals	1 set

### SPECIFICATIONS:

#### GENERAL CAPACITY

Maximum swing	29.5"
Cross slide swing	25.5"
Bar capacity (draw tube)	2.95"
Spindle speed	4,000 rpm
Turret (Bi-directional)	12 stations
Cross travel (X axis)	10.23"
Longitudinal travel (Z axis)	33.4"
Cross travel (Y axis)	4.33"
Machine weight	18,739 lbs.
Floor Space	187" x 83"

#### SPINDLE (MAIN)

Spindle nose	A2-8
Bar capacity (draw tube)	2.95"
Spindle speed range	25~4,000 rpm
Full power range	25~4,000 rpm
Max. torque	516 ft-lbs
Motor (30 min.)	30 Hp
Standard chuck size	10"

**SPINDLE (SUB)**

Spindle nose	A2-5 (Built In)
Bar capacity (draw tube)	1.26"
Spindle speed range	30~6,000 rpm
Full power range	750~6,000 rpm
Max. torque	52 ft-lbs
Motor (30 min.)	7.5 Hp
Standard chuck size	6"

**TURRET**

Tool positions	12
Index time (1 face / full)	0.2 / 0.6 sec.
Coupling type	3 Piece
Servo drive mechanism	Bi-directional, random call

**ELECTRIC SUPPLY**

Voltage	220 AC, 3phase, 60Hz
KVA	26