



## **CAMPRO CPL-3510**

- The CPL series is Campro's highly flexible and profitable CNC Turning Center
- High performance linear motion guideways, One Piece, 45 Degree cast iron inclined bed to ensure quick chip evacuation.
- Our CPL series CNC Turning Center is based on a high quality one piece cast iron bed for superior rigidity and anti-vibration characteristics.
- 45 degree cast iron inclined bed ensures quick chip evacuation. The new CPMS (Campro Production Management System) represent the first step in smart manufacturing.

## STANDARD FEATURES:

3-jaw, 10" hydraulic chuck  
Manual tailstock  
Chain type chip conveyor with bucket  
Coolant system  
Oil skimmer  
Tool box  
Instruction manual, parts list, and electrical diagram  
Fanuc operator and maintenance manuals  
WARRANTY-Machine: One Year, Parts  
WARRANTY-Control: Two Years, Parts & Labor

## SPECIFICATIONS:

### WORKING AREA:

Swing over bed	22.4"
Swing over cross slides	14.4"
Standard Turning Diameter	12.5"
Maximum turning diameter	15.7"
Maximum turning length	27.5"

### TRAVEL:

X Axis Travel	7.9" + .78"
Z Axis Travel	27.5"
Rapid Traverse	945 IPM

### SPINDLE:

Spindle Motor	30 / 35 HP
Maximum Speed	3,000 RPM
Hydraulic Chuck	10"
Spindle Nose	A2-8
Hole Through Draw Tube	3.0"

### TURRET:

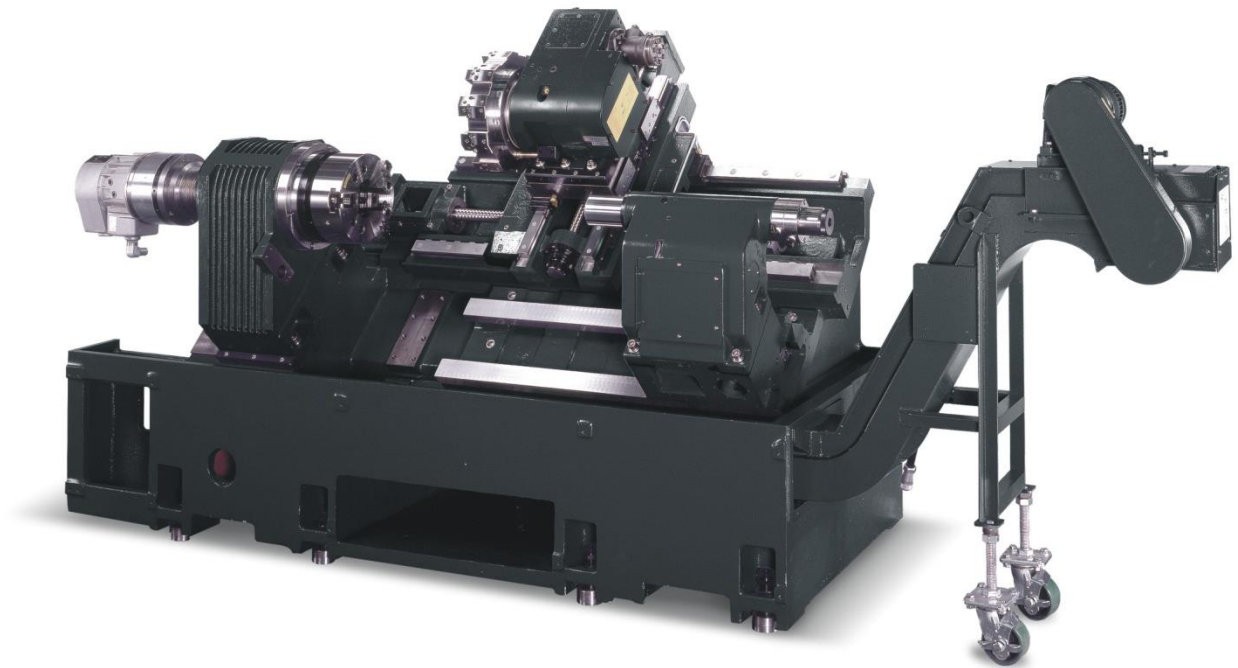
O.D. / I.D.	1.0" / 1.50"
Turret Type	12 - Servo

### TAILSTOCK:

Quill Diameter	3.93"
Quill Travel	4.72"
Quill Taper	MT - #4

### GENERAL:

Floor Space Required (W X D)	149" X 68"
Machine Weight	12,126 LBS
Standard Power Source	205-235 Volts / 3 Phase / 60HZ
Power Capacity Minimum	74 Amps (30 KVA)



### **Control Specifications - Fanuc OiT-F PLUS Control**

10.4" color LCD screen Color graphics

Simultaneous Controlled Axis

Least input Increment on X and Z is .001 mm Least command increment on X and Z is .001mm Inch/Metric Conversion (G20/G21)

Interlock on All Axes Machine Lock on All Axes Emergency Stop

Stored Stroke Check 1, 2, 3, Mirror Image

Backlash Compensation

Unexpected disturbance torque detection Stored pitch compensation

Automatic Operation (Memory) MDI Operation

Search Function (Sequence, Program) Program restart

Dry Run Single Block Buffer Register

Manual Handle Interrupt

Manual Jog Feed (Rapid, Jog, Handle) Manual Handle Feed Rate (x1, x10, x100)

Feed Command (F Code Feedrate Direct Command) Feedrate Override 0-200% (10% Unit)

Jog feed 0-5,000 mm/min (197 ipm)

Rapid traverse override (F0, F25%, F50%, F100%) Override Cancel

Rapid Traverse Bell-Shaped Acceleration/Deceleration Block Skip

Exact Stop Mode / Exact Stop (G61/G09) Dwell (G04)

Helical Interpolation Threading/Synchronous Feed Manual Reference Point Return 1<sup>st</sup> Reference Point Return

G28 Reference Point Return Check

G27 2<sup>nd</sup> Reference Point Return

G30 3<sup>rd</sup> and 4<sup>th</sup> Reference Point Return

Program stop, optional stop, end of pgm. M00, M01, M02, M30 Tape Code EIA RS-244/ISO 840 (Automatic Recognition) Optional Block Skip (9 ea)

Maximum Programmable Dimensions +/- 9999.9999" (+/- 8 digits) Program Number O4 Digit

Absolute and Incremental Command G90/G91 Decimal Point Input

Plane Selection G17. G18. G19

## **CONTROL SPECIFICATIONS (CONT'D.):**

Work Coordinate System Setting (G52 – G59) Work Coordinate Preset  
Additional Work Coordinate System 48 pairs Manual Absolute “On” fixed  
Programmable Data Input G10  
Sub Program Call 4 Levels of Nesting Custom Macro #100 to #199 Addition to Custom Macro Common  
Variables #500 to #999  
Circular Interpolation by radius R  
Canned Cycle (G73, G74, G76, G80 ~ G89) Optional Chamfering / Corner R  
Skip Function (G31)  
Automatic Coordinate System Setting Coordinate System Rotation Programmable Mirror Image  
Single direction positioning (G60)  
External Data Input (Tool Offset, message, machine zero point shift) Cylindrical interpolation  
AI Advance Preview Control (G5.1) Polar Coordinate Command Miscellaneous Function (M3 digits)  
Miscellaneous Function Lock  
Spindle Speed Command (S5 Digits, binary output) Spindle Speed Override (50% ~ 120%) 10% Unit Rigid  
Tapping  
Cutter Compensation C (G40-G42) Tool Length Measurement  
Tool Length Compensation (G43, G44, G49) Tool Offset Amount (+/- 6 Digits)  
Tool Offset Pairs (400 Pairs) Tool Life Management  
Reader/Puncher Interface RS232C Memory Card input/output Embedded Ethernet (100 Mbps) Part Program  
Storage Length: 320M Registered Programs 400 ea.  
Memory Lock  
Back Ground Editing  
Extended Part Program Editing (Copy, Move, Change of NC Program) Self Diagnosis Function  
History Display of Alarm and Operator Message Help Function  
Run Hour / Parts Count Display Actual Cutting Feedrate Display Spindle / Servo Setting Screen  
Multi-language display (Selection of 5 Optional Language) Erase CRT Screen Display (Screen Saver)  
Bi-Direction Pitch Error Compensation Tool Management Function  
Protection of Data at 8-Levels  
Tool Monitoring Function (HWTM – Built-on Fanuc Type) Fanuc Manual Guide i conversational programming  
Alpha i AC digital servo system with 1,000,000 pulse encoders Full MDI keyboard  
PCMCIA data card slot on left side of LCD for program input / output – up to 2GB storage  
Advanced Preview Control (Look ahead of multi-blocks – 20 blocks look ahead) Automatic Acceleration /  
deceleration with Bell Shaped rapid acc/dec  
3 axes simultaneous control std. (4 axis opt.) Scaling  
Custom Macro B  
High speed skip signal