



CAMPRO CPL-106 TURNING CENTER

- The CPL-106 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, 6" 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	17.7"
Swing over cross slides	10"
Maximum turning diameter	11.4"
Maximum turning length	13.7"

TRAVEL:

X Axis Travel	5.9" + .78"
Z Axis Travel	13.8"
Rapid Traverse	945 IPM

SPINDLE:

Spindle Motor	10 / 15 HP
Maximum Speed	6,000 RPM
Hydraulic Chuck	6"
Spindle Nose	A2-5
Hole Through Draw Tube	1.8"

TURRET:

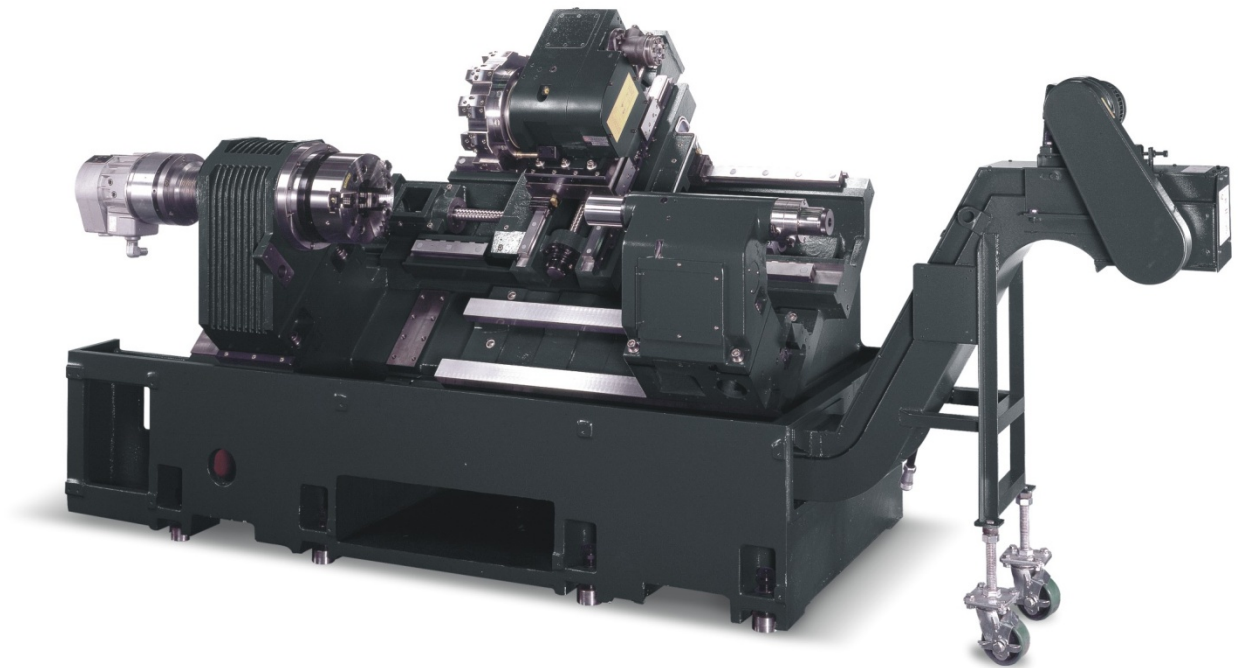
O.D. / I.D.	.787" / 1.26"
Turret Type	10 - Hydraulic

TAILSTOCK:

Quill Diameter	2.75"
Quill Travel	3.14"
Quill Taper	MT - #4

GENERAL:

Floor Space Required (W X D)	117" X 63"
Machine Weight	6,614 LBS
Standard Power Source	205-235 Volts / 3 Phase / 60HZ
Power Capacity Minimum	36 Amps (20 KVA)



Control Specifications - Fanuc OiM-F Control

8.4" 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 1st Reference Point Return

G28 Reference Point Return Check

G27 2nd Reference Point Return

G30 3rd and 4th 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