



# CNC TURNING CENTER GTV SERIES

Superior Quality  
Superior Accuracy  
Superior Speed



# CUBIC GTV-SERIES:

Precision and Speed in a Space Saving Design.

When Accuracy IS the Priority.



Gang tooled machines are more accurate. Period! Featuring all NSK components: ballscrews, linear ways, and spindle bearings, the GTV provides a level of accuracy above the crowd.

The same components maximizes speed, too! Up to 1181"/min rapids, get you into the cut faster, reducing cycle times and saving you money.

Multiple tool choices, including creative live tool options, help you compete in a competitive market.



We use world leading controls and servo systems from FANUC & FAGOR. The GTV can be equipped with either control system! And either in 2- or 3-axis configuration.

Each configuration is matched — servos, drives and controllers are from the same manufacturer. Choose **FANUC** or **FAGOR** and count on their reputation. Using either control gives you instant productivity, and instant profitability.



It's the details that count, and the GTV delivers.

- Chip Conveyor \*
- Pendant Style Handwheel
- Hydraulic Collet Closer
- Foot Pedal Operated Closer \*
- Electrical Cabinet Cooler
- High Output Coolant Pump
- On-the-table Coolant Delivery
- Lubrication System
- Halogen Work Light

These are the details that make using the machine simple and easy.

\* optional

# GTV “Next Gen” Advanced Gang Tool Technology

## World Class Performance – World Class Quality

**GTV separates itself from the crowd by offering three distinctive features:**

### Vertical Design

The vertical design offers numerous machining benefits. Chip flow is the most obvious. This allows tools to be free of chips and allows for faster, more efficient part production. The vertical gang slide also features on-the-table coolant for precise coolant delivery.

In addition, the vertical design simplifies the use of live tooling making the spindle positioning options even easier to work with. The vertical design allows easy access to see the tools when setting up. With 42mm center height, no longer are centerline confinements of live tool size an issue. Finally, the vertical design allows dramatic space saving. It is very ergonomic and allows operators easy access for setups and part handling.

### High Accuracy

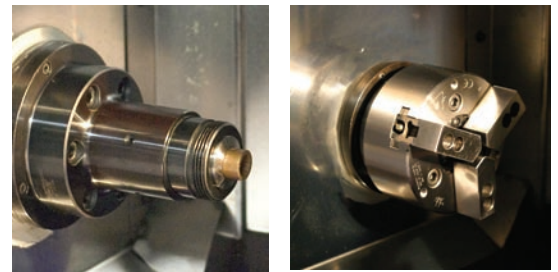
The most significant feature of the GTV is the ultra accuracy that it can maintain. No other competing gang tool turning center can match with the resolution of the GTV. 0.00005” ( 50 millionths) positioning accuracy is standard. We use preloaded double-nut NSK ballscrew in X & Z axes. The ballscrews are supported with NSK angular contact P4-class bearings and matched to NSK LA-series Super Rigid linear rails. When accuracy counts and you need dependability, turn to GTV.

### Superior Speed

The GTV provides the fastest response in the gang tool market. Whether its a simple 2 axis component or a complex 3 axis part the GTV will produce the fastest cycle time. You’ll be amazed. Send us your requirements we promise to meet or exceed your expectations.

The GTV is the most innovative gang tool turning center ever engineered. No other gang tool turning center offers the unique features and benefits available on the GTV.

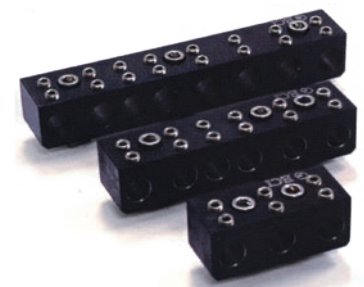
Designed in Europe, assembled in the United States, Cubic again brings innovation to manufacturing.



### Many tooling and workholding configurations are available.

Many tooling and workholding configurations are available.

- Quick changeover systems
- 5C or Dead length
- Adjustable height holders for stick tooling
- Live tooling holders for all applications
- Air or electric live spindles



# CUBIC GTV-C Specifications

X Axis Travel	12.0"	305mm
Z Axis Travel	7"	165mm
Spindle RPM	60-6000rpm	
Axis Rapid Travel	800"/ min	20.3m/min
Axis Maximum Feed Rate	400"/ min	10.15m/min
Axis Power Rating	42 in/lb	5.2 Nm
Positional Repeatability	0.00005" (0.000025" Opt.)	0.00127mm (0.00064mm Opt.)
Positional Accuracy	0.0001" (0.00005" Opt.)	0.00254mm (0.00127mm Opt.)
Spindle Runout	0.00005" (50 millionths)	0.00127mm
Spindle Motor Power	5 HP	3.7 kilowatt
Spindle Bore (Max. Material)	1.062" (1.25" Opt)	27mm (32mm Opt)
Spindle Length with Closer and Chuck	30"	762mm
Collet Type	5C	
Chuck Size	5.3"	135mm
Spindle Configuration	A2-4	
Chuck / Collet Clamping System	Hydraulic	
C Axis Simultaneous Movement **	X-Z-C (True 3 axis linked motion) X-C & Z-C Flat Plane Selection	
Axis Control System	FANUC AC Digital	
	FAGOR Sercos digital (Fiber optic linked drives)	
CNC Controllers	FANUC 0iMate-T or FAGOR 8055iTB Conversational	
Tooling Center Height	1.653" (0.5" & 0.75" Opt.)	42mm (12.7mm & 19.0mm Opt)
Coolant Capacity	25 gallons	95 liter
Coolant Pump Power	½ hp	0.4 kilowatt
Chip Conveyor Type	Reversible Direction, CNC Controllable (Opt)	
Compressed Air Requirement	Only required if air live tools are requested	
Total Power Required	208-230VAC, 3 phase, 7.5KVA	
Weight	3750 lb	1704 kg
Dimensions w/o options (L x D x H)	60" x 48" x 72"	1524mm x 1220mm x 1828mm
* Design and specifications are subject to change without notice		** Optional

## Standard Accessories

- FANUC 0iMate-T
- Hydraulic Collet Closer
- Halogen Work Light
- Lubrication System
- Integrated Coolant Tank
- 42mm Center Height Tool Holders
- On-The-Table Coolant Delivery System
- Electrical Control Box Cooler
- Tool Box & Tools
- Leveling Blocks

## Optional Accessories

- FAGOR 8055iTB (C-Axis option)
- FANUC 0iTB (C-Axis option)
- Chip Conveyor
- Bar Feeder Systems
- Part Catcher & Part Conveyor
- Hardinge® Style Tooling Blocks
- Live Tooling Systems (Air or Electric Powered)
- Foot Pedal
- Auto Door
- Robotic Loader
- Table Mounted Probing



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