



GT mini *plus*

Compact Size Gang Tool Lathe
Your Ideal Choice for
2nd Ops and Bar Work



FANUC control • Heavy casting base • Hydraulic chucking system

GTmini^{plus}

with **BAR FEEDER**
PERFECT COMBINATION!



BAR FEEDER /

Accepts spindle-length bar stock between 1/5" and 1.06" in diameter.

MODEL	DH-65
Bar diameter	0.19" - 1.06"
Bar length	Max. 49.21"
Magazine capacity	25 linear inches
Weight	551 lbs
Air supply	85 psi
Power supply	220/440V 0.4A 60Hz

* Specifications and designs are subject to change without notice.
 ** Bar Feeder is optional equipment.



GTmini^{plus}

**Also Available with
 Rear Part Loader**

As shown in picture part-to-part loading time is 3 seconds. Ask us about customized loader design to fit your needs.

FEATURES /



Minimum Footprint

GT mini plus allows you to use shop floor space efficiently, its foot print measures only 50" x 42". The compact size becomes a great advantage when you need to organize machines to into production cells.



Extensive Workholding Options

5C collets are most commonly used on GT mini plus. 5C collets are widely available and are designed for close tolerance holding of round, square and hex bar stocks in inch or metric sizes (up to 1.02" bar capacity). However, GT mini plus can also make use of these other workholding options:

- "Dead-length" 5C collet—for zero part movement in Z axis
- 5C step chuck—for gripping larger parts while using the same 5C drawbar
- 4" hydraulic 3-jaw chuck—the traditional workholding choice on many lathes



Maximum Performance

- High speed 6,000 rpm spindle
- Rigid MEEHANITE casting base
- 712 inch per minute rapid traverse



Full Featured Operation Panel

The operation panel has been revamped to include convenient features such as a MPG handwheel and dry run button. The buttons and switches have also been grouped for ergonomic usage through all modes of operation.



Increased X-Axis Travel

GT mini plus features a slant bed design that results in 2.7 extra inches of X-axis travel without increase in foot print. More tools can be placed on the gang-tool table than ever to ease job setups.



5HP Spindle Motor

New spindle motor is 66% more powerful than GT mini.



Heavy Machine Base + FANUC Precision = Real Machining Power

GT mini plus outperforms many machines in the same class by virtue of its mechanical advantages. The gray cast iron base affords superior vibration dampening, allowing faster, deeper cuts to be taken while maintaining maximum accuracy and longer tool life. The machine's computer optimized design ensures overall rigidity and stability under high acceleration rates while keeping thermal expansion tightly in check. The P4-class precision ground ballscrews on X and Z axes are driven by FANUC AC digital servos, delivering a part making capability that is unparalleled in this price range. GT mini plus features FANUC Oi-Mate CNC, which is the gold standard in terms of reliability. The widespread adoption of FANUC systems on so many shop floors means shortened training and programming time. Being the leader does not mean improvement is stopped: the control now offers PC-card slot next to the LCD display for convenient program transfers.



Platform for High Production

Gang-type tooling on the GT mini plus offers increased accuracy and speed over turret-based designs. Unlike a turret, the tools stay fixed on the gang tool plate, not only can they achieve better positioning accuracy, and there's also no time lost to turret indexing. Gang tool layout is proven to reduce cycle times while maintaining rigidity and superior surface finish. GT mini plus comes with a standard tooling package at no extra cost.



Part Handling Automation

A variety of bar feeders are available directly from Cubic, the GT mini plus even comes with interface for DH-65 barfeeder pre-wired. For 2nd operation work, an optional automatic rear part loader can be ordered from Cubic. GT mini plus to move finished parts outside the machine. A generous complement of M-codes are provided for calling these automation features from within part programs.



Complete Package

These features and more are included in the standard configuration at no extra charge:

- 5C collet nose
- Parts catcher
- Hydraulic chucking system
- Coolant system
- Micro-computer controlled lubrication unit
- Standard package of tool holders
- Foot switch for chuck activation

Equipment | Standard and Optional

● = Standard
○ = Optional

5 HP inverter driven spindle motor	●
FANUC digital AC servo motors for X and Z	●
FANUC 0i-Mate	●
Hydraulic pump unit for chuck/collet activation	●
Automatic lubrication for sliding ways	●
Rigid cast iron base	●
M-code controlled parts catcher	●
Parts bin with mesh for coolant reclamation	●
Magazine-style short bar feeder	○
12 ft bar feeder	○
Bar extension	○
Bar feed interface (FEDEK DH-65 series)	●
5C collet nose	●
"Dead-length" 5c collet nose	○
4" hydraulic 3-jaw chuck	○
ID tool holders (3)	●
OD/Cut off tool holders (2)	●
Tool holder bushings (1 set)	●
3/8", 1/2" or 3/4" center height Hardinge-style toolings	○
PC-card access for program storage	●
RS-232 serial interface for program uploads	●
Foot switch to activate collet or chuck opening/closing	●
Halogen work light with adjustable arm	●
2 color LED signal light tower	●
Micro-computer controlled lubrication unit	●
Programmable coolant system	●
On-table coolant delivery	○
Stainless steel high pressure coolant nozzles	○
Coolant level indicator with temperature gauge	●
Chip pan with pull out handle	●
Chip conveyor (belt-type) and chip cart	○
Dedicated heat exchanger for electronic panel	●
Separate external enclosure for braking resistor	●
Electrical cabinet locks	●
Front door interlock	○
Steel braided cable sheath within machining area	●
Screwless service access panels	●
Toolkit and toolbox	●
CE mark	○

Technical Data | Specification

X Axis Travel	233mm	9.20"
Z Axis Travel with Part Catcher	147mm	5.75"
Z Axis Travel without Part Catcher	170mm	6.69"
Swing over Table	50mm	1.97"
Swing over Cross Slide	120mm	4.72"
Spindle Bore	34mm	1.34"
Bar Capacity	27mm	1.0625"
Spindle Nose	85mm	
Hydraulic Chuck	4"	
Spindle Motor	3.72 kilowatt	5 HP
Spindle Speed	100 ~ 6,000 rpm	
Rapid Traverse	18 m/min	712 ipm
CNC Platform	FANUC 0i-Mate	
Min Input Unit	0.001mm	0.0001"
Max. OD Tool	5/8"	
Max. Boring Bar	3/4"	
Floor Space	1200 x 1000mm	50" x 42"
Height	1500mm	62"
Net Weight	1,058 kg	2,332 lbs
Standard	220V 3ph	
Optional	440V 3ph	
CNC Control	2 years	
Machine Parts & Labor	1 year	

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CUBIC MACHINERY, INC.

13401 Benson Ave. Chino, CA 91710

Tel: 909-590-9995 Fax: 909-590-9996

www.cubicmachinery.com