



FELLOWS 10-2/4 CNC GEAR SHAPER



10-2/4 CNC

CNC providing an outstanding range of functions.

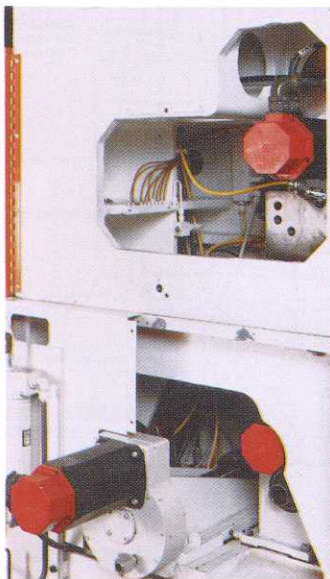
The heart of the GE-Fanuc CNC System is its computer control of the stroke drive, electronic index drive for cutter spindle and work spindle axis and radial infeed drive. The easy to operate universal control permits the operator to keyboard in all settings, with immediate easy-to-view readout on the CRT.

Features tailored for enhanced gear production include:

- CNC with 3AC servo axis and 1AC spindle
- Cutter offset
- 9" monochrome CNC MDI/CRT station
- Menu programming
- Self-diagnostics—troubleshooting
- Digital servo with brushless AC motors
- Programmable inch/metric operation
- RS232 communication port
- Part program storage (50 parts) with expanded memory, 75 parts (optional)
- MPG manual pulse generator
- 4-cut capability
- Slotting, segment and gap cutting capability
- Work positioning, cutter and work alignment
- Thermal compensation
- 230 volt (standard), 460 volt w/transformer (optional)
- Cutter position at top of stroke
- Standard CNC programming language, off line program storage available, with optional equipment

Now the world's most reliable, productive, energy efficient, 10 inch (250mm) Gear Shaper introduces GE-Fanuc CNC Controls.

Over 1400 Fellows 10-2 Gear Shapers have earned the reputation as the industry's worldwide standard for gear cutting, quality and reliability. We've just made them even better. We've carefully incorporated the performance and integrity of the original 10-2/4 with the brain of GE-Fanuc Computer Numerical Control. The result: unparalleled new levels of productivity; automatic, non-computational set-up; predictable repeatability from run-to-run; easy-to-operate universal control; variation free, infinitely adjustable stroking speeds.



Rear View of machine shows drive motors for CNC.

And we've even lengthened the trouble-free production life of the 10-2/4 with an all-new ballscrew infeed axis. And the quick change cutter mechanism is now available as an option. Whether you choose a new 10-2/4 CNC or our 10-2/4 CNC Retrofit Package, in this size range you can't find better state-of-the-art cutting reliability. Anywhere.



Machine operator's panel with keyboard-type manual data input and 9" CRT color display.

10-2/4 SPECIFICATIONS

Capacities:

	Metric	Inch
Maximum Pitch Diameter (External)	254mm	10"
Maximum Pitch Diameter (Internal)	254mm	10"
Maximum Diametral Pitch (Spur)	6 MOD	4
Maximum Diametral Pitch (Helical)	5 MOD	5
Maximum Face Width 10-2	51mm	2"
Maximum Face Width 10-4	102mm	4"
Maximum Helix Angle (Using 5" Cutter)	45°	
Maximum OD of Fixture	483mm	19"

NOTE: Maximum OD of fixture can be increased to 24" for some parts with only slight modifications.

STANDARD FEATURES

- Variable stroking, 29 HP @ 1500 RPM AC spindle drive to give: **STROKES/MINUTE** 10-4, 50-1300 SPM
- Rotary feed drive for feed range .025mm (.001") to .305mm (.012") per 25.4mm (1.0") of cutter P.D./Stroke for normal feed rates up to 4.064mm (.160") for multipass cutting.
- Radial feed drive for feed range .0025mm (.0001") to .508mm (.020") per stroke up to .304mm (.12") per minute.
- Trabon/Vickers lube/hydraulic system.
- Centralized lube system used for hydraulic functions where applicable.
- Automatic oil lube to stroke arm joint.
- Automatic guide lube fill.
- Rapid rotation of work and/or cutter spindle for work and cutter truing.
- Work spindle top plate with "T" slots.
- Self-contained reservoir in work slide for lower index worm and lubrication of ways.
- Coolant in base. Removable chip basket.

Dimensions:

	Metric	Inch
Maximum Overall Length	2356mm	92 3/4"
Maximum Overall Length w/Transformer	3258mm	128 1/4"
Maximum Overall Height (Zero Raise)	2477mm	97 1/2"
Maximum Overall Depth	2616mm	103"
Total Space Required w/Open Doors	Length 2406mm	94 3/4"
Total Space Required w/Transformer	Length 3258mm	128 1/4"
	Depth 2845mm	112"

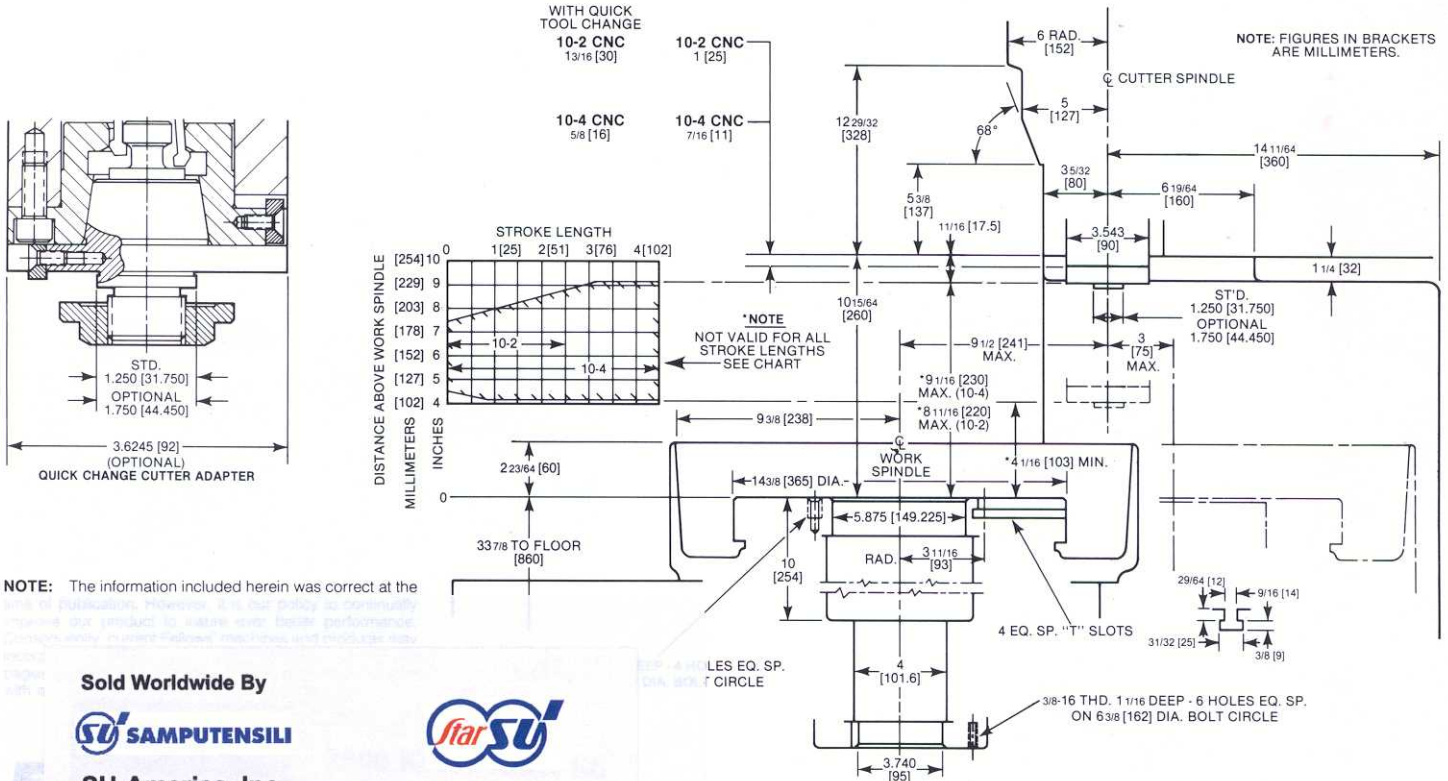
Weight:

Net Weight w/motors	5307 kg	11,700 lbs
Control Enclosure	498 kg	1,100 lbs
Transformer	95 kg	210 lbs
Machine Crated, Domestic Shipment (Approx)	6123 kg	13,500 lbs
Machine Boxed, Export (Approx)	6577 kg	14,500 lbs

NOTE: Machine's control voltage other than 200-230 require transformer.

ACCESSORY EQUIPMENT

- Mechanical spur/helical guides
- Hydrostatic spur/helical guides
- 7-type short lead guide application
- Quick change cutter mechanism
- Automatic (Hyd.) fixture clamping
- Center support (Hyd.)
- Magnetic chip conveyor
- Higher subbase to extend working limits
- Tilting work spindle
- Special back-off cams for crown or taper
- External coolant tank
- Two start index wheel
- 5 inch face width capacity
- Automation and work holding fixture
- CNC stroke length and stroke position adjustment
- Multi-surface cutting capability



NOTE: The information included herein was correct at the time of publication. However, it is the policy of continuously improve the product to maintain our better performance. Without any further notice, changes and modifications may occur.

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