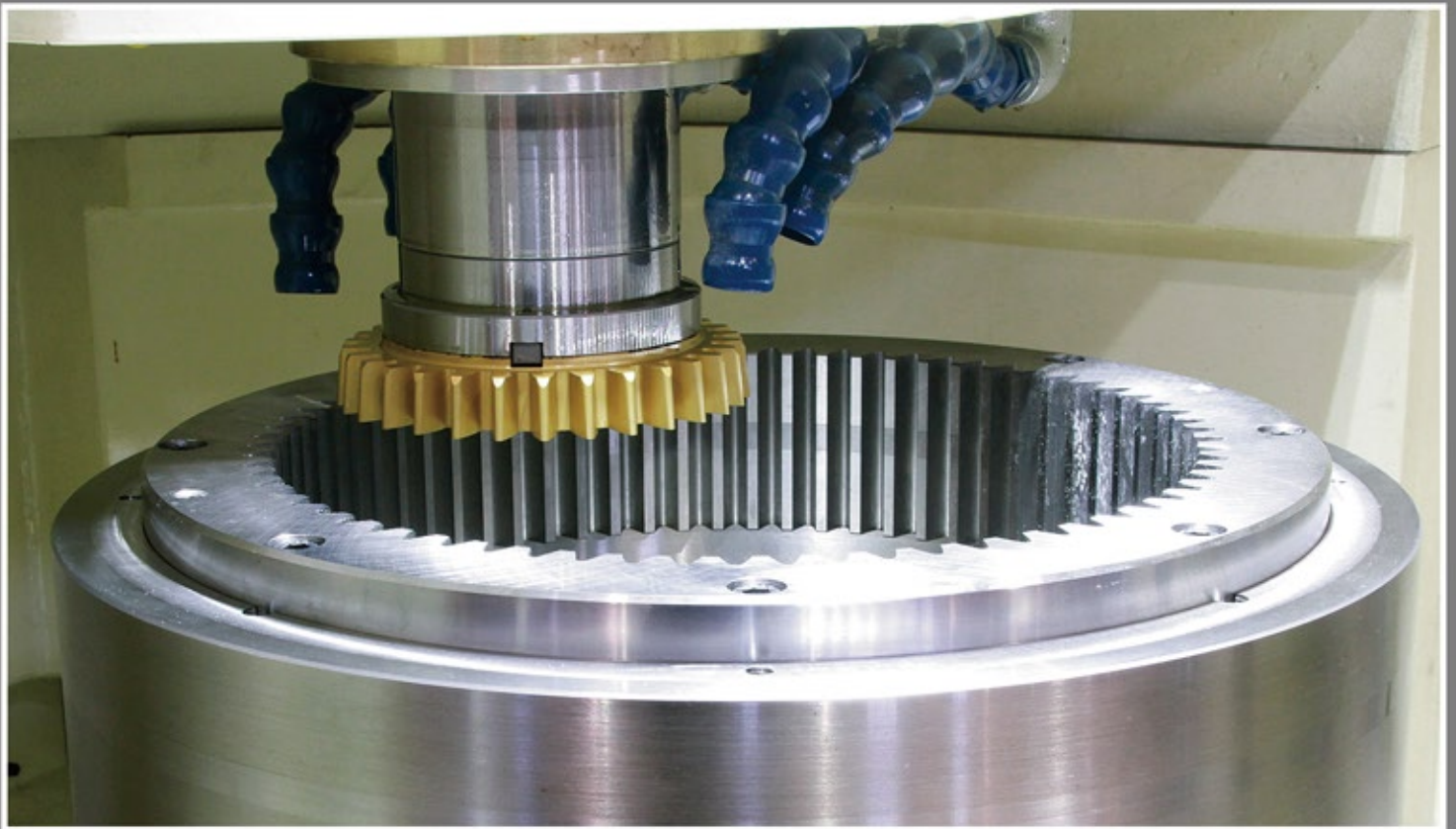


GEAR SHAPER

GS-70N



GS-70N



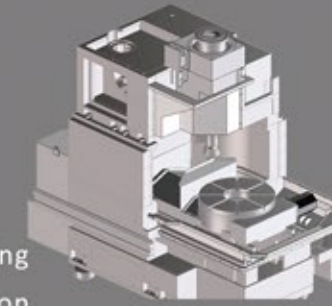
GS-70N gear shaper is a newcomer. Its new and innovated design succeeds the best selling former model GS-200N with its superior operation friendliness, higher grade cutting force and accuracy in medium sized gear shaping.



History of Karats gear technology started from production of a turbine pinion hobbing machine in 1921. For 100 years Karats Precision has succeeded to produce many models and large numbers of gear processing machines. This model is one of the master pieces.

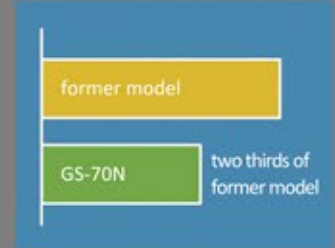
High Speed, High Rigidity, High durability

Mechanical design all over is targeted to higher rigidity, durability and in that end employs an improved table relief mechanism. Innovated design in guide and spindle bearing with improved lubrication enables higher stroke motion.



Reduced Machining Time

Machining time is reduced to two thirds of a former model by increased cutting depth, feed rate and stroke speed.

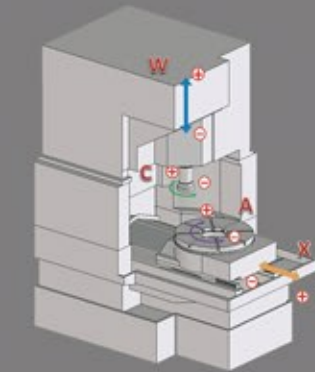


FEATURES



Pallet Changer and ATC

Optional pallet changer is used together with ATC to eliminate down time for work setting.



CNC Axis

- A:Table rotation
- C:Cutter rotation
- X:Table infeed
- W:Cutter shift

OPTION



Quick stroke

A pair of non-circular gears is assembled in spindle drive train for quick stroke and cycle time saving.



Work Fixture

various design of work fixture is available on request.



ATC

Cutters are changed automatically by CNC command.

SAMPLES



Specification

Diameter of work table	700mm
Max. module pitch	m6.5
Max. width of gear face	140mm
Diameter of hole through work table	200mm
Diameter of cutter spindle	110mm
Taper hole in cutter spindle	φ60 1/12 (BT45)
Number of cutter strokes	30 ~ 250str/min
Rotary feed rate of cutter (φ100 cutter)	1 ~ 4500mm/min
Radial feed rate	1 ~ 6000mm/min
Total connected load	30kVA
Main drive motor (Continuous rating)	AC 7.5kW
Overall dimensions (L×W×H)	2390×3610×3055mm
Machine net weight	12000kg

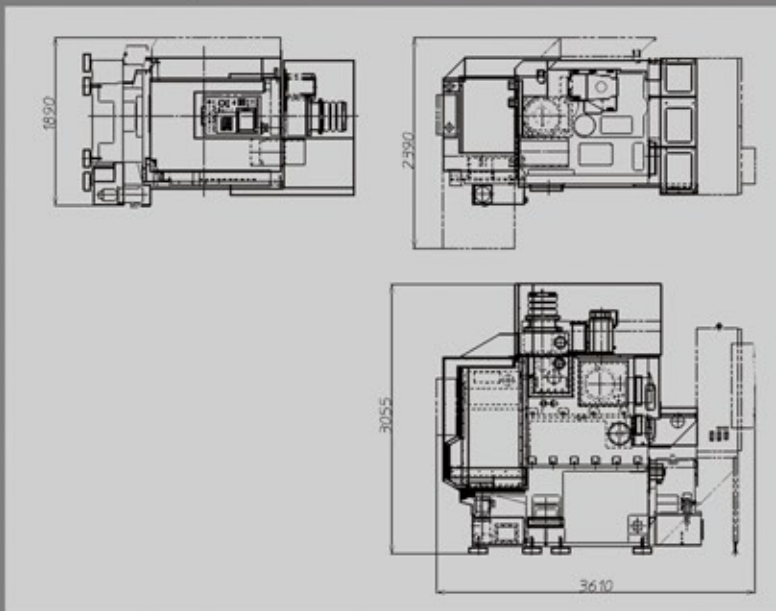
Standard equipment

- CNC system (FANUC 31i-B)
- Control panel • Operation panel
- Automatic shifting of cutter location
- Automatic cutter uplift device
- Straight guide
- Hydraulic oil unit with oil temp controller
- Cutting coolant supply unit
- Cooling oil circuit for cutter spindle and guide
- Partial splash cover

Optional equipment

- Work fixture
- Rotary cylinder
- Work orientating device
- Work seating sensor
- Work fixture cleaning system
- Block up of column (max. 200mm)
- Cutter arbor
- Cutter / arbor fixing bracket
- One touch change of cutter
- ATC
- Helical guide
- Non-circular gear drive of cutter spindle
- Machine full cover
- Automatic safety door
- Coolant shower gun
- Air gun
- Mist collector
- Oil cooler for coolant
- Chip conveyor
- Illumination light for work area
- Signal light tower
- Electric leak breaker
- Energy saving device
- Part program storage length (64/128kbyte)
- Air conditioner for control panel

Dimensions



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※Contents in this brochure are subject to modify without notice in case of machine improvement.