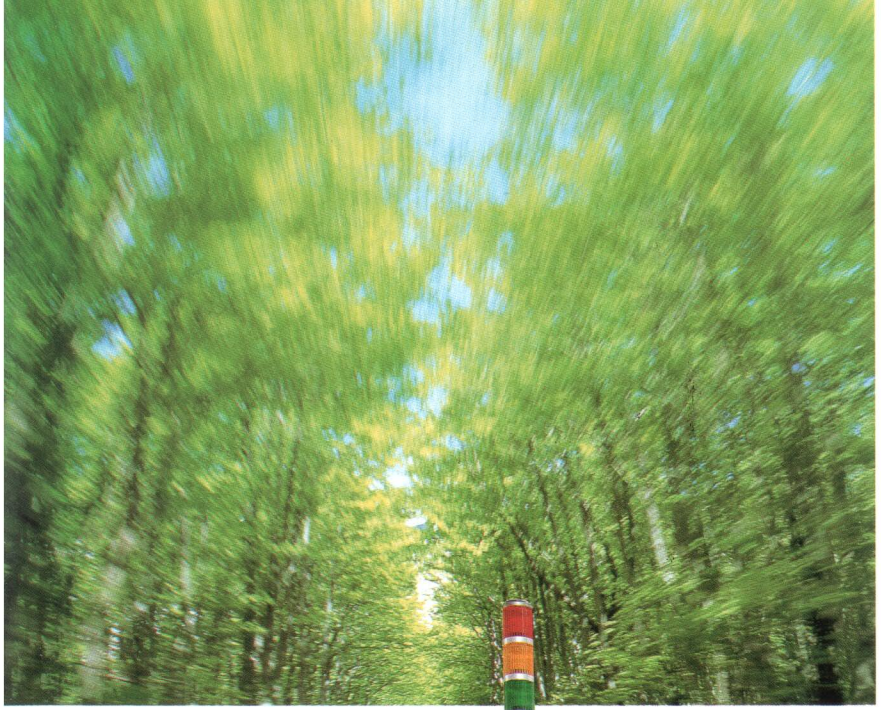
Kashifuji

KA80

CNC HOBBING MACHINE

"HUMAN ORIENTED"

KASHIFUJI

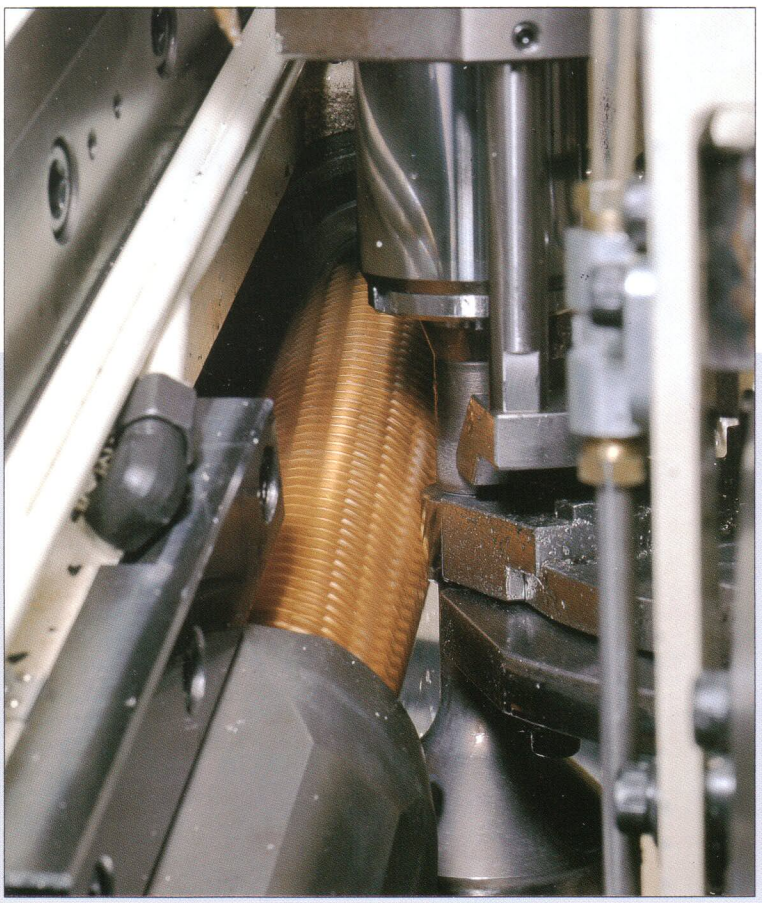


KA80 BRI

The ultimate in Kashifuji engineering offers

creative solutions for your toughest hobbing jobs!

NGS you A NEW HOBB

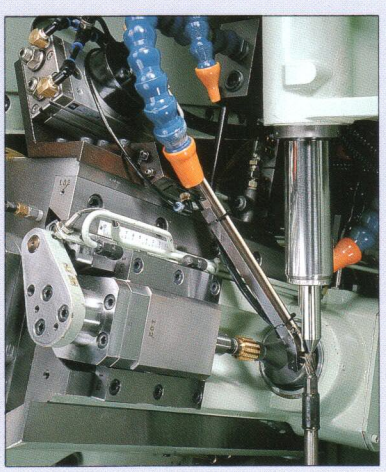


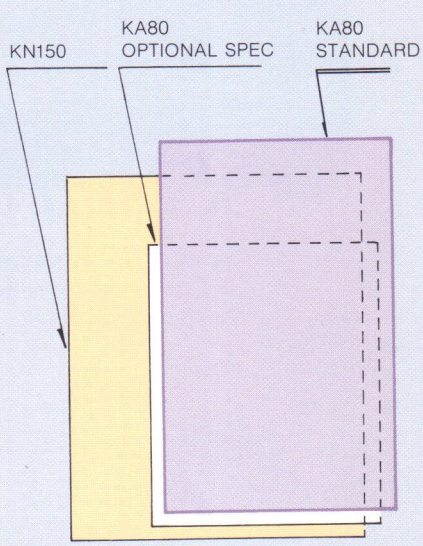
HIGH SPEED HOB SPINDLE

A 2600rpm hob spindle is matched with a 330rpm work table. The hob head has a rigidity not found in small, compact hobbers.
These basic machine characteristics combine to allow reduced machining times while maintaining a high level of accuracy.
The KA80 was designed to take full advantage of small diameter, multistart, multigash, high performance hobs!

NEW APPLICATIONS

Carbide finish hobbing of hardened gears is a cost effective process producing superior gear quality. A contactless auto meshing device and a rigid machine allow efficient hard hobbing of armature shafts, where low operational noise levels are a must.



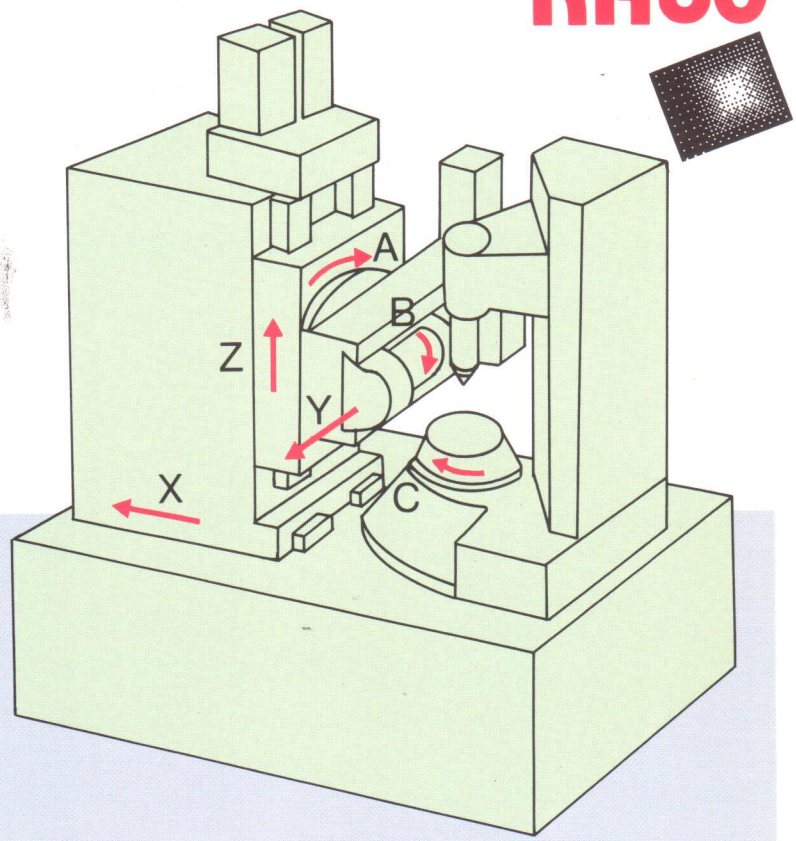


SMALL, COMPACT FOOT PRINT

The KA80 requires the smallest floor space in this class of machine. A compact design with no compromise on functionality.

ING ERA.

KA80

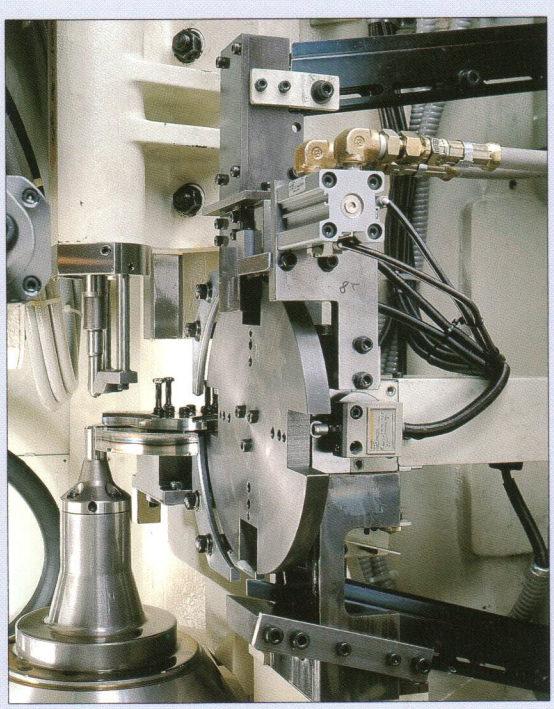


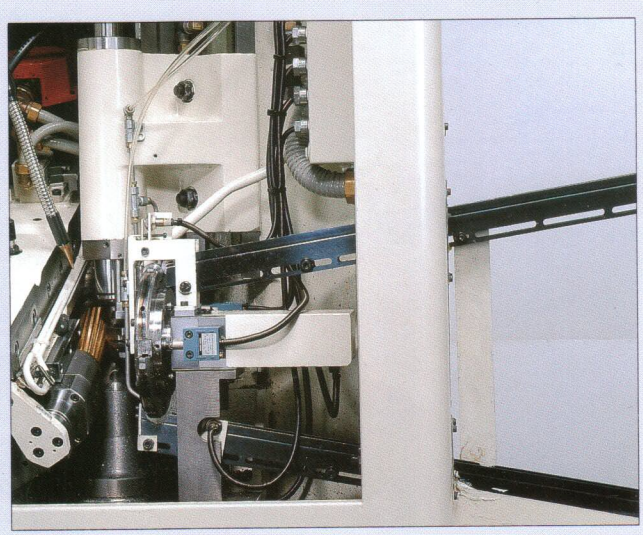
FULL CNC CONTROL OF ALL AXIS

The KA80 uses five axis CNC control for maximun flexibility, and extremely fast set-ups for a variety of hobbing applications.

VERSATILE AUTO LOADER OPTIONS

The KA80 has many options for unattended production. Various styles of autoloaders, including auto tool changers (ATC), auto jig changers (AJC) and automatic size correction are available.





KASHIFUJI

SPECIFICATIONS

■MACHINE CAPACITY	
Max. workpiece diameter	80mm
Max. pitch	module 3
Axial feed travel	150~350mm
Max. helix angle	±45°
No. of teeth	3~300
Table max. PRM	330rpm
■WORKING RANGE	
Center distance between hob & table	10~130mm
Table top diameter	190mm
Distance form table top to support center	85~500mm
■HOB	
Max. hob size diameter × length	80×130mm
Taper of spindle nose	NT35
Max. hob shift travel	100mm

■HOB SPEED AND FEED	
Hob speed	250~2600rpm (infinitely variable)
Radial feed (X)	0.1~10mm/T. rev. (infinitely variable)
Axial feed (Z)	0.1~10mm/T. rev. (infinitely variable)
Radial rapid feed (X)	6000mm/min
Hob shift (Y)	1000mm/min
Axial rapid feed (Z)	10000mm/min
Hob head swivel (A)	1000deg /min
■ELECTRIC	
Total power	20kVA
Main motor, AC spindle motor	5.5kVA (continous rating)
■FLOOR SPACE AND WEIGHT	
Floor space, L X W	1400×2300mm
Machine height	2100mm
Weight (includes hydraulic & electric)	4500kgf

STANDARD ACCESSORIES

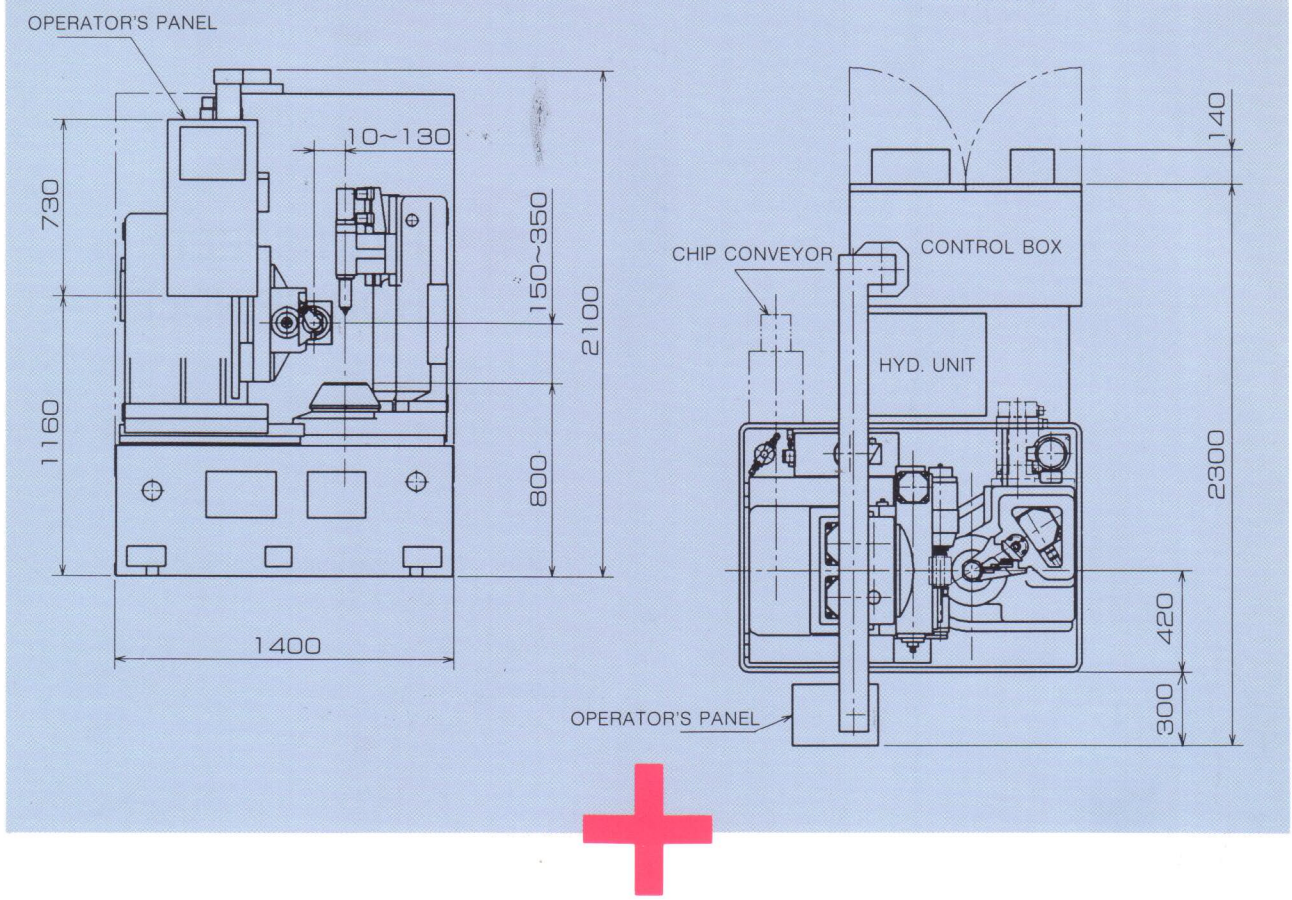
- Spindle load monitor system
- Auto cycle (1,2,cut cycle, radial cycle)
- Radial variable feed
- Axial variable feed
- 5 axis CNC control
- Memory 40 meter
- Part program storage: 63pcs (work prg + hob prg)
- Off set: 16pcs
- Hob head auto clamp
- Hob arbor auto clamp
- RS232C interface
- Hydraulic unit
- Coolant system
- Splash guards
- 1 set of hob arbor with collars
- 1 set of hand tool

OPTIONAL EQUIPMENT

- Auto loader
- Part chuck cylinder
- Jig fixture
- Deburring attachment
- Steady rest
- Rough locator
- Oil mist collector
- Auto door
- Chip conveyor & chip box
- Meshing device
- Extended column & support
- Cutter head for ϕ110×180 hob
- Hob protection at power failure
- Sub control panel
- Machine light
- Conversational programing
- Special cycle
  - Worm wheel cutting
  - Jump feed
  - Step feed for 2 gears
  - Tangential cutting
  - Single index
  - Relieving
  - Jump shift for 2 mounted hobs
- Special hob shift
  - Intermitent shift
  - Continuous cycle shift
  - Tooth oriented shift
  - Jump shift
- Program memory (max. 640m)
- Registerable programs (max. 1000pcs)
- No. of tool off set (max. 200pcs)
- Hob spindle tachometer & amp. meter
- Counters
- ATC, AJC
- Auto OBD measuring unit
- Auto part selector & auto set up

KA 80

MACHINE LAYOUT



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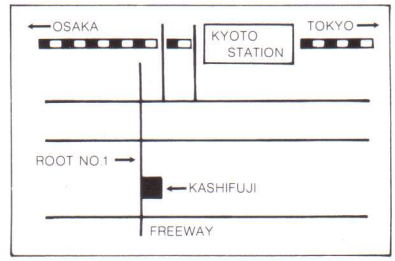
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