



GS:HTM

Gear System: Hobber

Drake Hobbers help you get more gears out the door.

Drake Gear Hobbers feature the productivity and accuracy you need for all the gears you'll cut.



Drake GS:H-24.

Performance warranty.

In term, the Drake warranty is a full year, with no limit on hours. In nature, it's basic: you expect performance—we deliver it.

We provide our exclusive **"Warranty Assurance Program"** with every machine. After the warranty period, your machine will be thoroughly inspected by one of our skilled technicians who will assure that your machine is operating like new.

Additional free operator and maintenance training is also offered with the Warranty Assurance inspection.

ISO 9001 Certified Quality System

Drake
MANUFACTURING
The Smart Answer.TM

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Drake GS:H models accept maximum workpiece diameters from 6" (GS:H-6) to 120" (GS:H-120) and handle Right and Left Helix of up to 30° or 45° depending on the model.

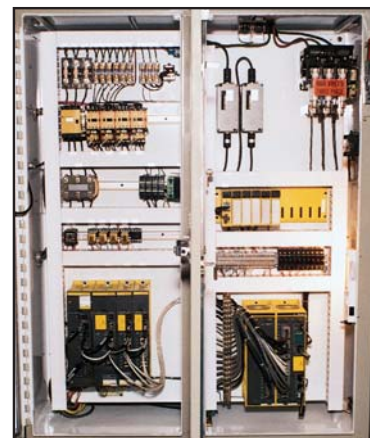
Put the Drake GS:HTM to work for you.

Call or write to discuss your challenges. We'll give you the full story on how the Drake Hobber can boost your productivity.

Drake Hobbers feature state-of-the-art Fanuc control systems for easy set-up and repeatability.



User-friendly electrical systems.



Drake-designed electrical systems feature a modular component layout for fast, easy maintenance.



The back of each machine offers line-of-sight accessibility for all auxiliary equipment.

Specifications	GS:H-6	GS:H-24	GS:H-36	GS:H-72
Stock Diameter, Max.	6"	24"	36"	72"
Hob RPM	up to 1000	up to 300	up to 200	up to 200
Table RPM	up to 250	up to 25	up to 20	up to 11.5
Max. Hob Head Helix; R & L	±45°	±45°	±45°	±45°
Power Helix	Available	Available	Available	Available
Automatic Loading	Available	Available	Available	N/A

Note: Speed ranges designed to meet customers part/process requirements. Models available up to 120" gear diameter. Specifications subject to change without notice.



- Spur Gears
- Helical Gears
- Worm Gears
- Spline Shafts



Drake
MANUFACTURING

Drake's GS:H™ Gear Hobbers help you improve quality and lower cost per gear.

Guaranteed Gear Smart™ performance.



Drake GS:H-72 handles gears up to 72" in diameter.

Drake's Gear Hobber line features solid, proven bases, the latest CNC electronics, precise positioning accuracy and gear-specific programming that's built in for your application.

Faster set-up and changeover bring you increased productivity.

Since the system software and servo motors control all movable axes, set-up is much simpler, changeover is faster and productive machine time is increased.

The CNC provides data storage for hob life management as well as gear definition, hob geometry and process data to expedite changeovers.

Optional systems include power helix, auto loading, hydraulic work clamping, high-speed hobbing, automatic stock dividing and thermal compensation.

More consistent tooth spacing.

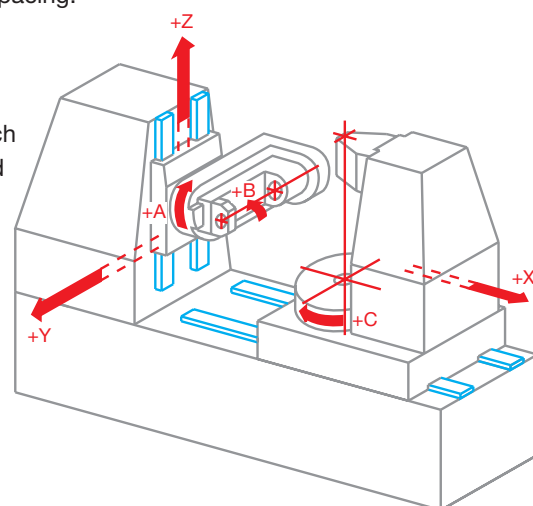
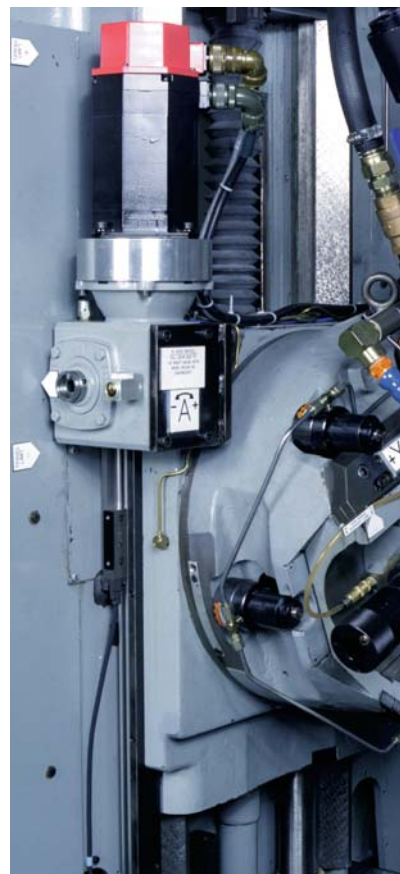
Our key to hobbing quality is positioning control and superior rigidity of both cutter and work drives. Million-count encoders are used on all axes; the hob is servo-driven; linear axes are direct-driven.

Drake GS:H machines use top quality pre-loaded ground ball screws. This system provides excellent lead and index accuracy and consistent tooth spacing.

A versatile performer.

Drake's unique systems approach applies to both conventional and climb feed hobbing of workpieces with multiple diameters per set-up. Hobber capacities range in workpiece diameter from the GS:H-6 maximum of 6" (150 mm) to the GS:H-120 maximum of 120" (3000 mm).

Consistent tooth spacing and precise control are provided with digital servos and million-count encoders. Glass scales provide resolution to four millionths of an inch.



Drake GS:H-36.

We make sure your Drake Hobber gets right to work.

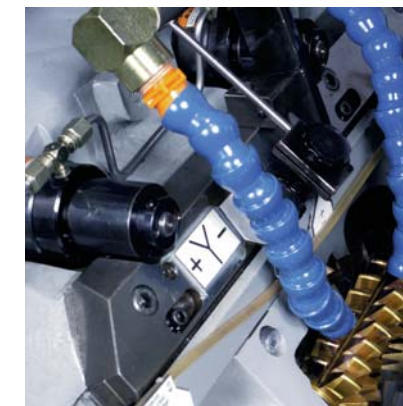
Drake's GS:H Gear Hobber features gear-specific software that is programmed to your requirements and proven on your gears in our plant. Because of this, it arrives Gear Smart—ready to put top-quality gears out your door from Day One.

All control set-up is completed through a few simple menu entries. No programming is required.

As your needs change, we can update your control software, because Drake's full-time software and field support are always as close as your telephone.

Easy locating.

Drake's optional stock divider automatically locates position of gear teeth on any pre-cut gear for quick and accurate finishing.



Five hydraulic clamps provide positive helix positioning.



Stock divider automatically locates tooth position.



Your choice of auto load options.

Several Automatic Loading Systems are available for Drake Hobbing Machines. They include the Drake gear carousel and loading arm system, as well as robotic systems.



The Drake carousel system provides precise gear handling and smooth, consistent work flow for maximum productivity.

Performance in action.

Specific performance features in this Drake GS:H-6 for making steering gear pinion shafts included a drive dog check and load fault detection.

This high-volume, 24-hour-a-day machine produces parts with a Cpk of up to 6.0 on tooth spacing and a Cpk of up to 2.5 on part diameter—all with a 7-second hobbing cycle.



Drake GS:H-6 Gear Hobber designed and built for a major automotive manufacturer.