

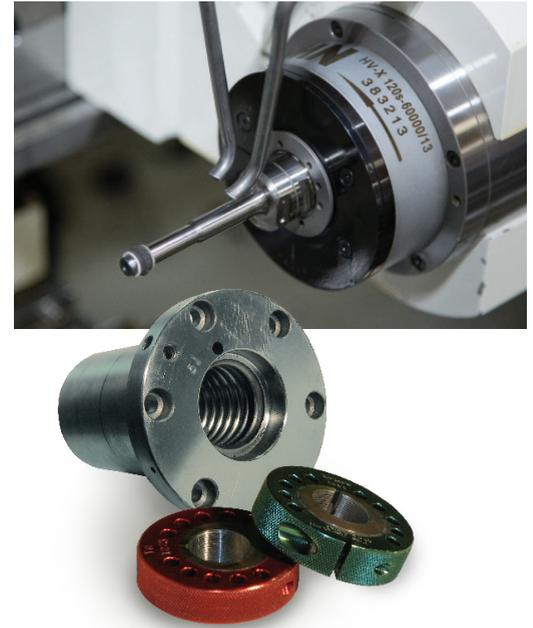
**Drake<sup>®</sup>**

**INTERNAL  
THREAD GRINDERS**

**[DRAKEMFG.COM](http://DRAKEMFG.COM)**

# DRAKE INTERNAL THREAD GRINDERS

Drake Manufacturing has revolutionized the thread grinding industry with precision built solutions engineered for your success. Drake GS:TI four-axis CNC thread grinders are fully programmed and delivered with a grinding process optimized to run customers' parts. The internal thread grinder is typically used when grinding ball nuts, thread gages, power steering components, and more. Drake machines are designed by a talented team of engineers with several decades of experience.



## STANDARD FEATURES

All Internal Thread Grinders come standard with:

- High-Precision Workhead
- Motorized Wheel Spindle
- Wheel Helix
- Wheel Spindle Drive
- Closed-Loop Precision Feedback
- Diamond Roll Truing
- CNC Servo System
- Assembly & Verification

## OPTIONAL FEATURES

There are several upgrades available for your Internal Thread Grinder including:

- SmartForm™
- Part Probe
- TouchDress™
- Automation
- And More

## PARTSMART™ MENU-DRIVEN SCREENS

Simplifies setup and ensures accuracy. The operator simply enters part-specific values into the control and the software does the rest.

## AUTOMATION

Drake offers a variety of automation options unique to your specific application. With Drake automation solutions, you will deliver consistent, high-quality results.



## LINEAR MOTORS

Machine is built with linear motors and linear roller ways for maximum acceleration and contouring.

## CAST-POLYMER BASE

Machine is built on a cast polymer base for vibration damping and thermal stability. Compact, high-mass base allows for high accelerations for minimizing cycle time.

# GS:TI INTERNAL THREAD GRINDERS

Experience GS:TI. View our complete technical specifications and machine capacities.

MACHINE SPECIFICATIONS	GS:TI240MH	GS:TI280	GS:TI400	GS:TI670
Maximum Swing Ø Over Table	240 mm	280 mm	400 mm	670 mm
Maximum Internal Grind Length	190 mm	190 mm	190 mm	190 mm
Lead	Various	Various	Various	Various
Lead Angle (from horizontal)	Various	Various	Various	Various
Wheel Spindle Power	Various	Various	Various	Various
Wheel Spindle Speed	Various	Various	Various	Various
Standard Wheel Range (outside diameter)	≤100 mm	≤100 mm	≤100 mm	≤100 mm
Standard Wheel Range (width)	5–20 mm	5–20 mm	5–20 mm	5–20 mm
Standard Wheel Range (bore)	Various	Various	Various	Various
Workhead Speed	Up to 800 rpm continuous	Up to 300 rpm continuous	Up to 300 rpm continuous	Up to 300 rpm continuous
Workhead Spindle Nose	A2-6	A2-8	A2-8	A2-8
Rapid Return Speed	Up to 40 m/min			
Number of CNC Axes	3	4	4	4
Total Electrical Requirements	30–45 kVA	30–45 kVA	30–45 kVA	30–45 kVA
Voltage	380–480 V	200–600 V	200–600 V	200–600 V
Approximate Weight	6,125 kg	6,750 kg	6,850 kg	7,150 kg
Machine Dimensions (overall)	1.9 m W x 2.6 m D	2.2 m W x 2.7 m D	2.2 m W x 2.7 m D	2.2 m W x 2.7 m D
Machine Dimensions (workholding height)	1.0 m above floor	1.1 m above floor	1.2 m above floor	1.3 m above floor
Diamond Dresser Roll Ø	115 mm	115–152 mm	115–152 mm	115–152 mm
Standard Diamond Dresser Roll (width)	Up to 32 mm			

\*Machine specifications subject to change contingent on part requirements

## SERVICE

Drake protects the value of your investment by offering products and services focused on improving machine reliability and maintainability.

[service@drakemfg.com](mailto:service@drakemfg.com)

## DISCOVER THE DRAKE DIFFERENCE

Call or Email  
**+1-330-847-7291**  
[info@drakemfg.com](mailto:info@drakemfg.com)

WE BELIEVE IN **ACCURACY.**

# Drake®

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