

INTRODUCING ...

DRAKE GS:TE™

Grinding System: Thread External



*Complex geometries
are automatically
generated with
consistent precision.*

Drake's Part Smart™ customized CNC programming delivers precision and production from Day One.

Drake GS:TE grinders give you the control it takes to increase productivity with precision, shift after shift, week after week. Aggressively and accurately grind threads for taps, power and steering worms, lead screws and feed screws, ball screws, medical screws, complex geometries and multiple leads ... with size control to ± 0.0002 ".

Totally customized programming.

The menu-driven software (you need no programming) is pre-programmed for your exact applications. And you can count on Drake's System Engineers for full-time support and assistance as your needs change and the technology advances.

Hits the floor running.

The total system is pre-tested at our plant on your parts. Then it's proved out for you and prepped for start-up. A Drake GS:TE hits the floor ready to make parts from Day One.

Unmatched control and resolution.

Superior motion control is achieved with such advanced components and systems as precision ball screws, digital AC servo motors and linear scales with resolution of 0.000,004".

Paced for productivity.

Drake GS:TE grinders feature variable speed wheel and work drives to provide a constant SFM process. The advanced diamond roll wheel dressing gives you fast and automated truing for virtually any grinding operation.

Families of parts.

Our CNC software is completely customized to your manufacturing environment. The programs are menu-driven so part set-up is as simple as entering a few workpiece parameters. Specific factors such as dressing forms, grind path, spindle and work SFM are easily entered, giving you complete control over the process without tedious programming. Simple prompts take the operator through the entire cycle, quickly and easily. You reduce set-up time, minimize operator error and increase machine productivity.

*The Drake GS:TE sets the
standard for today's thread-
grinding requirements.*



ISO 9001 Certified Quality System

Drake
MANUFACTURING

DRAKE GS:TE™

Grinding System: Thread External Specifications

DESCRIPTION	636	1245	36	50	120
Part Diameter	6"	12"	8"	8"	8"
Part Length	36"	45"	36"	50"	120"
REAR DRESS					
Grind Length	12"	18"	36"	50"	120"
Wheel Helix	±25°†	±30°†	±25°	±25°	±25°
FRONT DRESS					
Grind Length*	8"	14"	36"	50"	120"
Wheel Helix†	±10°	±15°			
PERFORMANCE					
Work Rotation RPM	0-2000	0-2000	0-150	0-150	0-150
Wheel Feed	5"	9"	6"	6"	6"
Spindle HP (kW)**	7.5 (5.5)	10 (7.5)	10 (7.5)	10 (7.5)	10 (7.5)
DIMENSIONS					
L x D (Inches)††	90 x 75	125 x 90	160 x 65	176 x 86	340 x 65

* Longer models also available.

† Higher helix ranges available.

** More powerful options available.

†† Dimensions for standard models.

Typical Menu Entries

NUMBER OF STARTS	00	LEAD	00.00000
THREAD HAND	L/R	THREAD LENGTH	00.00
BLANK O.D.	0.0000	SIZE COMP	0.00000
TOTAL DEPTH	0.0000	TAPER COMP	0.00000
WHEEL DIA	00.00	FIN STOCK	0.0000
RUF PASSES	00	FIN PASSES	00
RUF WHEEL SFM	00000	FIN WHEEL SFM	00000
RUF WORK SFM	000	FIN WORK SFM	00
DRESS COUNT	00	DRESS WHEEL SFM	0000
DRESS AMOUNT	0.0000	DRESS FEED IPM	00



The electrical panel contains the main drive, servo drives and controls arranged in a straightforward layout.



CNC-controlled contour diamond roll dressing is standard. Shown is optional front dress.



Several automatic loading options are available.



The latest Fanuc controls assure easy set-up.

Total abrasive capabilities.

Your CNC is designed with the future in mind, capable of higher speeds and feeds with superabrasives. Your Drake is custom-designed to your specific application to deliver optimum performance from Aluminum Oxide, Seeded Gel, CBN and Diamond Abrasives.

Materials Flexibility.

The Drake GS:TE lets you precision grind a broad range of materials: Ferrous, Nonferrous, Superalloys, Ceramics, Plastics, Resins, Silicons, Composites and Exotics.

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.

See the Drake GS:TE at work.

Give us a call to discuss your exact external threading challenges. We will arrange a working demonstration of the GS:TE solutions.

Phone: 330-847-7291

Fax: 330-847-6323

Internet: www.drakemfg.com

E-Mail: info@drakemfg.com

ISO 9001 Certified Quality System



MANUFACTURING
Smart Technology.™

4371 North Leavitt Road
Warren, OH 44485



© Copyright 2000, Drake Manufacturing.