



Drake

EXTERNAL
THREAD GRINDERS

DRAKEMFG.COM

DRAKE EXTERNAL THREAD GRINDERS

Drake Manufacturing has revolutionized the thread grinding industry with precision built solutions engineered for your success. Drake GS:TE CNC thread grinders are fully programmed and delivered with a grinding process optimized to run customers' parts. The external thread grinder is typically used when grinding taps, gages, multi-start worms, ball screws, electronic steering components, thread rolls, rotor components and more. Drake machines are designed by a talented team of engineers with several decades of experience.



STANDARD FEATURES

All External Thread Grinders come standard with:

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

OPTIONAL FEATURES

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

- SmartForm™
- TouchDress™
- 1m Grind Length
- Part Probe
- 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:TE EXTERNAL THREAD GRINDERS

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

MACHINE SPECIFICATIONS	GS:TEM	GS:TE240-360	GS:TE400-750	GS:TE-670-750	GS:TE400-2000	GS:TE445-4000
Length Between Centers (0° Helix)	100mm	360mm	750mm	750mm	2,100mm	4,000mm
Maximum Part Ø	25mm	240mm	400mm	670mm	400mm	445mm
Lead	Various	Various	Various	Various	Various	Various
Lead Angle (From Horizontal)	±10°	Various	Various	Various	Various	Various
Diamond Dresser Roll Ø	115mm	115mm - 152mm	115mm - 152mm	115mm - 152mm	115mm - 152mm	115mm - 152mm
Standard Diamond Dresser Roll (Width)	up to 32mm	up to 32mm	up to 32mm	up to 32mm	up to 32mm	up to 32mm
Wheel Spindle Power	5kW	12kW/16kW	12kW/16kW	12kW/16kW	12kW/16kW	12kW/16kW
Wheel Spindle Speed	12,000rpm	8,000rpm	8,000rpm	8,000rpm	8,000rpm	8,000rpm
Standard Wheel Range (Outside Diameter)	≤250mm	≤400mm	≤400mm	≤400mm	≤400mm	≤400mm
Standard Wheel Range (Width)	10 to 25mm	10 to 25mm Optional: ≤ 60mm	10 to 25mm Optional: ≤ 60mm	10 to 25mm Optional: ≤ 60mm	10 to 25mm Optional: ≤ 60mm	10 to 25mm Optional: ≤ 60mm
Standard Wheel Range (Bore)	76.2mm	160mm	160mm	160mm	160mm	160mm
Workhead Speed	up to 300rpm continuous	up to 300rpm continuous	up to 300rpm continuous	up to 300rpm continuous	up to 300rpm continuous	up to 300rpm continuous
Workhead Spindle Nose	A2-4	A2-6	A2-8	A2-8	A2-8	A2-15
Rapid Return Speed	up to 40m/min	up to 40m/min	up to 40m/min	up to 40m/min	up to 40m/min	up to 40m/min
Number of CNC Axes	3	4	4	4	4	4
Total Electrical Requirements	20-30kVA	30-45kVA	30-45kVA	30-45kVA	30-45kVA	40-55kVA
Voltage	200-600V	200-600V	200-600V	200-600V	200-600V	200-600V
Approximate Weight	3,000kg	7,000kg	9,600kg	9,850kg	16,000kg	32,000kg
Machine Dimensions (Overall)	1.45m W x 1.85m D	2.2m W x 2.7m D	3.2m W x 2.6m D	3.2m W x 2.6m D	6.5m W x 2.6m D	7.5m W x 2.8m D
Machine Dimensions (Workholding Height)	1.0m above floor	1.1m above floor	1.2m above floor	1.3m above floor	1.2m above floor	1.5m above floor

*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

DISCOVER THE DRAKE DIFFERENCE

Call or Email
+1-330-847-7291
info@drakemfg.com

WE BELIEVE IN **ACCURACY.**

Drake

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