

**TOYODA**



# GRINDING MACHINE

Product Range

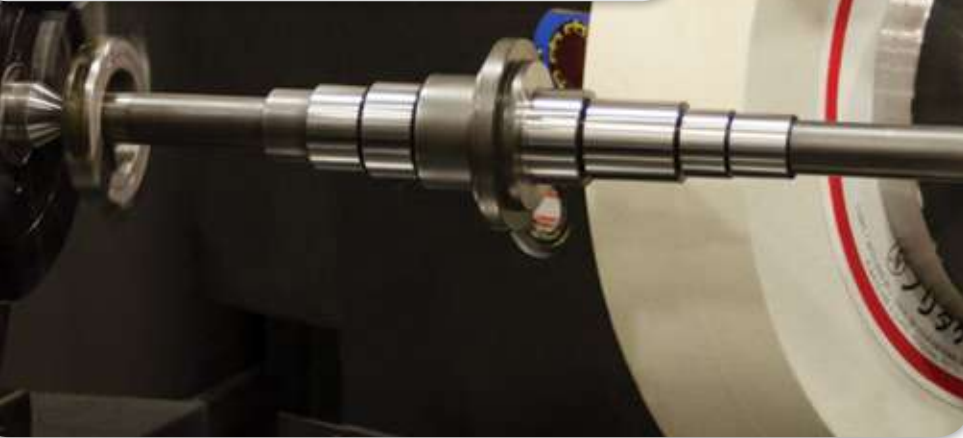


**JTEKT**

**Koyo** **TOYODA**

## GRINDING MACHINES

As a global leader in grinding machine technology, Toyoda offers an extensive lineup of high-performance universal, cylindrical, camshaft, and crankshaft grinding machines. Originally designed for high-production automotive manufacturing, these grinders excel in the most demanding applications.



### Solid construction

Toyoda grinding machines are made of stress-relieved cast iron that utilizes an FEM design for optimum thermal stability and vibration dampening.



### User-friendly HMI

Our grinding machines use Toyoda's own conversational controls. In a convenient touchscreen panel, operators are able to program at the machine.



### Accuracy by design

Toyoda's floating ball nut reduces movement in the ballscrew to maintain grinding accuracy and positioning.



### The daily grind for years to come

The TOYODASTAT® BEARING uses a hybrid of hydrostatic and hydrodynamic technology to eliminate metal-to-metal contact inside the bearing. This allows your grinder to run at top performance longer than your typical spindle bearing.



## CYLINDRICAL GRINDING MACHINE

Toyoda's cylindrical grinding machines ensure high precision after years of service.

### GE Series

The GE series is an economically- priced cylindrical grinding machine for job shop operations.



GE3-II

GE4i

GE6-II

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed
GE3-II	9.8" (250 mm)	Ø 7.9" (200 mm)	Ø 14" x 5" (355 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
GE4 / GE4i	GE4A/Pi-50	19.7" (500 mm)	Angular (GE4A): Ø 18" x 5" (455 mm x 127 mm) Straight (GE4P): Ø 16" x 5" (405 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
	GE4A/Pi-100	39.4" (1,000 mm)		
	GE4Pi-150	59" (1,500 mm)		
GE6-II	GE6A-150	59" (1,500 mm)	Ø 24" x 10" (610 mm x 254 mm) opt. Ø 29.9" x 12" (760 mm x 305 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
	GE6P-160	63" (1,600 mm)		
	GE6P-250	98.4" (2,500 mm)		
	GE6P-320	125.9" (3,200 mm)		
	GE6P-400	157.4" (4,000 mm)		

Specifications subject to change without notice



e300G



GL3-SIII



GL4-i



GL5-i



GL6-II



GL7-II

## E Series and GL Series

The GL series is a cylindrical grinding machine for dedicated processes in a high-production environment. This machine is offered in straight and angled-head configurations.

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed	
e300G	12.6" (320 mm)	Ø 7.9" (200 mm)	Ø 14" x 5" (355 mm x 127 mm)	8,860 sfpm (45 m/sec)	
GL3-SIII	9.8" (250 mm)	Ø 7.9" (200 mm)	Ø 14" x 5" (355 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)	
GL4-i	GL4A/Pi-50	19.6" (500 mm)	12.6" (320 mm)	Angular (GL4Ai): Ø 18" x 5" (455 mm x 127 mm) Straight (GL4Pi): Ø 16" x 5" (405 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
	GL4A/Pi-100	39.4" (1,000 mm)			
	GL4A/Pi-150	59" (1,500 mm)			
	GL4A/Pi-200	78.7" (2,000 mm)			
GL4-E	GL4A/P-32	12.6" (320 mm)	12.6" (320 mm)	Angular (GL4E-A): Ø 18" x 5" (455 mm x 127 mm) Straight (GL4E-P): Ø 16" x 5" (405 mm x 127 mm)	8,860 sfpm (45 m/sec) opt. 11,800 sfpm (60 m/sec)
	GL4A/P-63	24.8" (630 mm)			
GL5-i	GL5A/Pi-32	12.6" (320 mm)	Ø 12.6" (320 mm)	Ø 20.1" x 8" (510 mm x 203.2 mm) opt. Ø 24" x 12" (610 mm x 305 mm)	8,860 sfpm (45 m/sec) opt. 11,800 sfpm (60 m/sec) opt. CBN 15,750 sfpm (80 m/sec)
	GL5A/Pi-63	24.8" (630 mm)			
	GL5A/Pi-100	39.4" (1,000 mm)			
	GL5A/Pi-150	59" (1,500 mm)			
GL6-II	GL6A/P-32	12.6" (320 mm)	Ø 15.7" (400 mm)	Ø 24" x 12" (610 mm x 305 mm) opt. 24" x 17.7" (610 mm x 450 mm)	8,860 sfpm (45 m/sec) opt. 11,800 sfpm (60 m/sec) opt. CBN 15,750 sfpm (80 m/sec)
	GL6A/P-63	24.8" (630 mm)			
	GL6A/P-100	39.4" (1,000 mm)			
GL7-II	GL7A/P-63	24.8" (630 mm)	Ø 15.7" (400 mm) opt. Ø 19.7" (500 mm)	Ø 29.9" x 12" (760 mm x 305 mm) opt. Ø 36" x 12" (915 mm x 305 mm)	8,860 sfpm (45 m/sec) opt. 11,800 sfpm (60 m/sec)
	GL7A/P-100	39.4" (1,000 mm)			
	GL7A/P-160	63" (1,600 mm)			
	GL7A/P-250	98.4" (2,500 mm)			



## HYDRAULIC CYLINDRICAL/UNIVERSAL GRINDING MACHINE

Toyoda's general purpose grinding machines with simplified manual operation.



GOP32

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed	
GOP32	GOP32-50	19.6" (500 mm)	12.6" (320 mm)	Ø 16" x 5" (405 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
	GOP32-100	39.4" (1,000 mm)			
	GOP32-150	59" (1,500 mm)			
GUP32	GUP32-50	19.6" (500 mm)	12.6" (320 mm)	Ø 14" x 5" (355 mm x 127 mm)	6,500 sfpm (30 m/sec) opt. 8,860 sfpm (45 m/sec)
	GUP32-100	39.4" (1,000 mm)			
	GUP32-150	59" (1,500 mm)			

Specifications subject to change without notice



## UNIVERSAL GRINDING MACHINE

Toyoda's general purpose grinding machines deliver unmatched accuracy for the most demanding grinding applications.

### SelectG

The SelectG is versatile, universal grinding machine with a manually adjustable wheelhead for straight, angular, and optional internal applications.



SelectG



SelectG7

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed	
<b>SelectG II</b>	SelectG-100	39.4" (1,000 mm)	Ø 12.6" (320 mm)	Ø 20" x 8" (510 mm x 203.2 mm)	8,500 sfpm (43 m/sec)
	SelectG-150	59" (1,500 mm)			
<b>Select G7</b>	SelectG7-100	39.4" (1,000 mm)	Ø 25.9" (660 mm)	Ø 30" x 12" (760 mm x 305 mm)	6,500 SFPM (30 m/s)
	SelectG7-250	98.4" (2,500 mm)			
	SelectG7-320	125.9" (3,200 mm)			
	SelectG7-400	157.4" (4,000 mm)			

### TG4

The TG4 is a programmable universal grinding machine with automatic wheelhead indexing. This machine features multiple possible configurations for optimum flexibility.



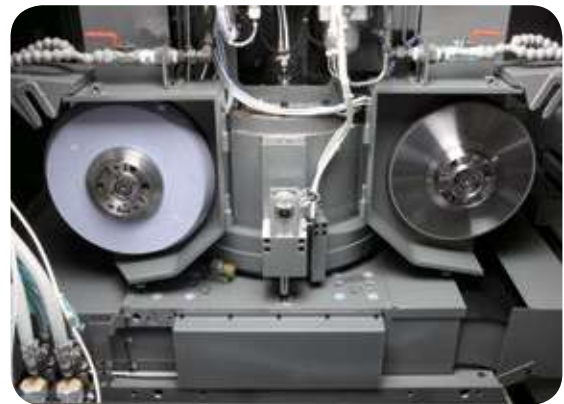
TG4

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed	
<b>TG4</b>	TG4-32	12.6" (320 mm)	Ø 12.6" (320 mm)	Ø 16" x 5" (405 mm x 127 mm)	8,850 sfpm (45 m/sec)
	TG4-63	24.8" (630 mm)			



### Grinding Flexibility

The TG4 boasts six different wheel mounting configurations for plain, angled, and internal grinding.



### Multi-Wheel Capabilities

The TG4 has multi-wheel capabilities with a programmable B axis.



## CAM & CRANK GRINDING MACHINE

Toyoda's camshaft and crankshaft grinding machines are designed for the demanding, high-volume automotive market.



GC20Mi



GC20R



GC32M

### GC Series

The GC series is a high-speed camshaft grinding machine. This CBN-capable machine has a small footprint and features the TOYODA STAT® BEARING, floating plate, and Toyoda GC50 controls.

Model	Center distance	Swing over table	CBN grinding wheel wheel (OD)	Wheel surface speed
GC20Mi	GC20M-25S	9.8" (250 mm)	Ø 7.9" (200 mm)	23,500 sfpm (120 m/sec) opt. 15,750 sfpm (80 m/sec)
	GC20Mi-35	13.8" (350 mm)	Ø 12.6" (320 mm)	
	GC20Mi-63	24.8" (630 mm)		
GC20R	24.8" (630 mm)	Ø 12.6" (320 mm)	Ø 4.7" (120 mm)	15,750 sfpm (80 m/sec)
GC32M	GC32M-63	24.8" (630 mm)	Ø 12.6" (320 mm)	Ø 13.8" (350 mm) / 3.9" (100 mm) / 5.9" (150 mm)
	GC32M-120	47.2" (1,200 mm)		
	GC32M-200	78.7" (2,000 mm)		
				31,500 sfpm (160 m/sec) opt. 15,750 sfpm (80 m/sec) 39,370 sfpm (200 m/sec)
				23,500 sfpm (120 m/sec) opt. 15,750 sfpm (80 m/sec)



GF32M



GF50M

### GF Series

The GF series is a high-precision crankshaft grinding machine. It offers a single linear motor wheelhead and features the TOYODA STAT® BEARING, floating plate, and Toyoda GC50 controls.

Model	Center distance	Swing over table	CBN grinding wheel wheel (OD)	Wheel surface speed
GF32M	GF32M-35	13.8" (350 mm)	Ø 12.6" (320 mm)	23,500 sfpm (120 m/sec) opt. 15,750 sfpm (80 m/sec)
	GF32M-63	24.8" (630 mm)		
GF50M/ GL50M	GF/L50M-70T	27.6" (700 mm)	Ø 19.7" (500 mm)	23,500 sfpm (120 m/sec)
	GF/L50M-140T	55.1" (1,400 mm)		

### GL32M Series

The GL32M is a cylindrical grinding machine for cam and crankshafts designed for high-production and versatility.



GL32M

Model	Center distance	Swing over table	Max. wheel size (OD x ID)	Wheel surface speed
GL32M	GL32M-35	13.8" (350 mm)	Ø 13.8" (350 mm) opt. 16.9" (430 mm)	23,500 sfpm (120 m/sec) opt. 15,750 sfpm (80 m/sec)
	GL32M-63	24.8" (630 mm)		

Specifications subject to change without notice



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