

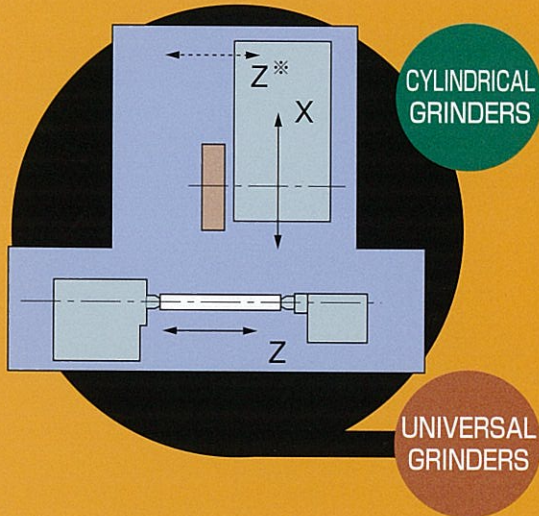
**SHIGIYA**

# ***GENERAL CATALOG***

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STRAIGHT WHEELHEAD



● VERSATILE TYPE

- CNC GRINDER
  - GPS-20
  - GPS-30 (40)
  - GPH-20
  - GPH-30 (40) /S
  - GPL-20
  - GPL-30 (40)
  - GP-45 (55) B/ND:ND2
  - GP-65 (75) D/ND:ND2

- NON-CNC
  - GP-20/F:H:A
  - GP-30 (40) B/F:H:A
  - GP-45 (55) B/A

● PRODUCTION TYPE

(Z\*:WHEELHEAD TRAVERSE)

- CNC GRINDER
  - GNW-20
  - GNW-30

● ULTRA PRECISION TYPE

- CNC GRINDER
  - GPX II -30

● COMPACT-DESIGN

(Z\*:WHEELHEAD TRAVERSE)

- CNC GRINDER
  - GPC-20
  - GPC-30 (40) B

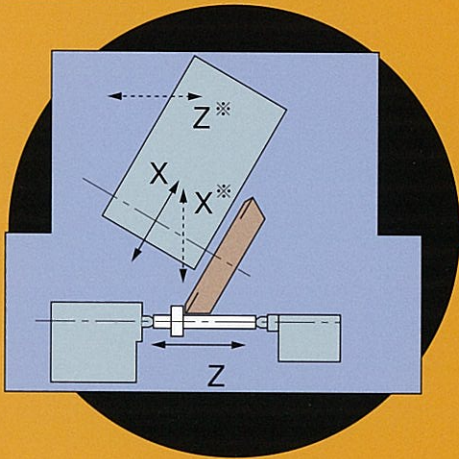
● UNIVERSAL TYPE

- CNC GRINDER
  - GU-30 (40) B/ND
- NON-CNC
  - GU-20
  - GU-30 (40) B/F:H:A

● MULTI-PROCESS TYPE

- CNC GRINDER
  - GSU-30 (40)

ANGULAR WHEELHEAD



● VERSATILE TYPE

(X\*:ANGLEHEAD)

- CNC GRINDER
  - GAE-30 (40) B

● PRODUCTION TYPE

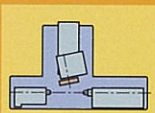
- CNC GRINDER
  - GAS-30 (40) B/ND2
  - GAP-40/NZ2

● COMPACT-DESIGN

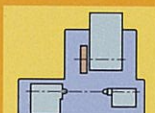
(Z\*:WHEELHEAD TRAVERSE)

- CNC GRINDER
  - GAC-20
  - GACL-20
  - GAC-30 (40) B

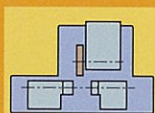
CUSTOM DESIGNED



CVT Grinder  
GSF-30



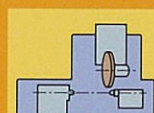
CNC Masterless  
CAM Grinder  
GCMH-30



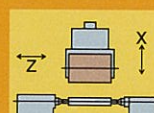
CNC Crank Pin Grinder  
GOCP-30



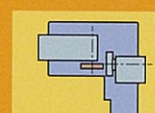
CNC Eccentric Pin  
/ Polygon Grinder  
GPES-30



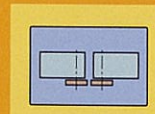
CNC Thread Grinder  
GSR-48B



Compact CNC  
Rubber roll Grinder  
GRN-20



Face Grinder  
SG-38B



CNC Multiple  
Centerless Grinder  
SMG-10  
CNC Centerless  
Cylindrical Grinder  
GCO-16

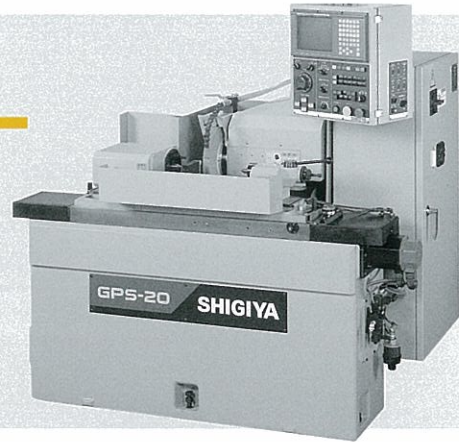
### CNC CYLINDRICAL GRINDER

## GPS-20 SERIES

SHIGIYA has designed this series of machine, keeping in mind the flexibility to allow for a wide range of grinding applications, as well as retaining a user-friendly conversational programming package.

Operators without CNC programming experience can use the machine as efficiently as an operator with a vast knowledge of CNC programming.

MODEL	
GPS-20·25/50	
SPECIFICATIONS	
SWING OVER TABLE	φ200mm
CENTER DISTANCE	250·500mm

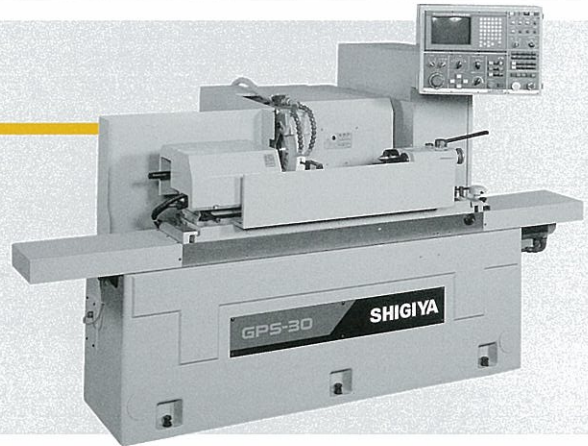


### CNC CYLINDRICAL GRINDER

## GPS-30(40) SERIES

This model has substantially inherited SHIGIYA's traditional performance and quality and supports high precision and highly efficient grinding with its excellent highly-durable mechanism.

MODEL	
GPS-30 (40) ·40/60/100/150/200	
SPECIFICATIONS	( ) GPS-40
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	400 (370) ·600 (570) ·1000 (970) 1500 (1470) ·2000 (1970) mm

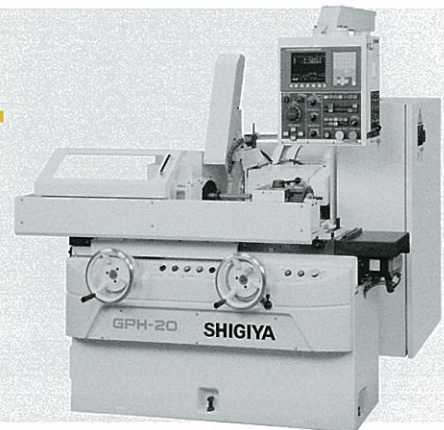


### CNC CYLINDRICAL GRINDER WITH HANDWHEELS

## GPH-20 SERIES

This model is equipped with handwheels on the X axis (wheelhead infeed) and the Z axis (table traverse), which can be operated just like those of manual operation machines, and with an electronic table stopper on the apron. This mechanism makes single workpiece grinding faster than manual operation machines. For larger lot sizes, workability has been enhanced with its performance combined with the automatic function of NC machines.

MODEL	
GPH-20·50	
SPECIFICATIONS	
SWING OVER TABLE	φ200mm
CENTER DISTANCE	500mm

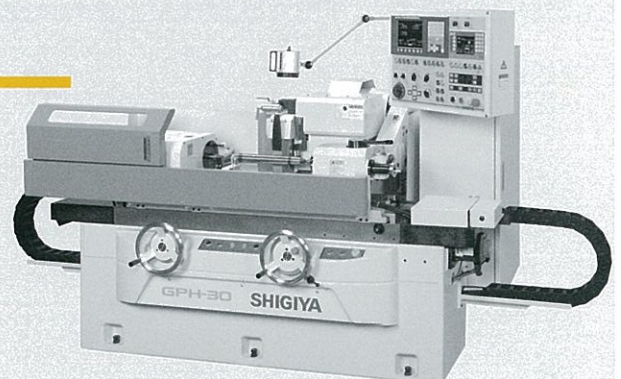


### CNC CYLINDRICAL GRINDER WITH HANDWHEELS

## GPH-30(40) SERIES

This model is an easy-to-use CNC cylindrical grinder with handwheels. In addition, S type (high precision specification), for which a closed type hydrostatic wheelhead slide and an extremely low vibration wheel spindle motor are provided as standard, is also available in order to satisfy high required precision.

MODEL	TYPE
GPH-30 (40) ·40/60/100/150/200	S
SPECIFICATIONS	
( ) GPH-40	
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	400 (370) ·600 (570) ·1000 (970) 1500 (1470) ·2000 (1970) mm

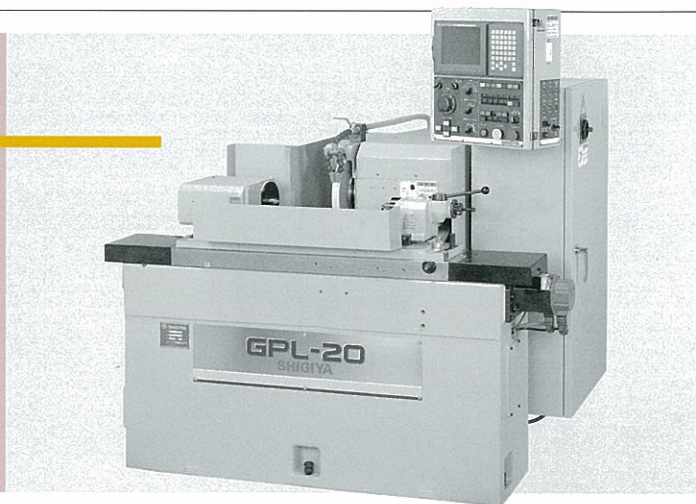


CNC CYLINDRICAL GRINDER

## GPL-20 SERIES

Superior "CNC control" and "Variety of Optional Accessories" complement customization for specialized applications. "GPL-20" Allows any combination of options to provide highly accurate grindings.

MODEL	
GPL-20·25/50	
SPECIFICATIONS	
SWING OVER TABLE	φ200mm
CENTER DISTANCE	250·500mm

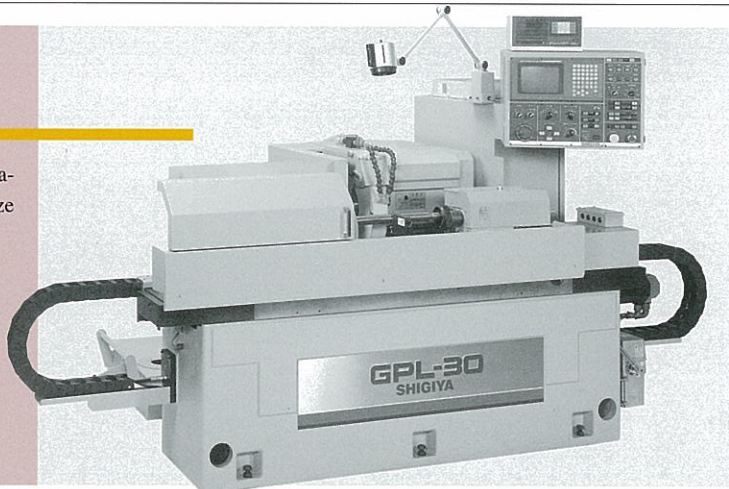


CNC CYLINDRICAL GRINDER

## GPL-30(40) SERIES

The GPL-30 series CNC Cylindrical Grinders are a new concept of machines aiming for flexibility, with a large selection of options to customize and meet individual customer's requirements.

MODEL	
GPL-30 (40) · 40/60/100/150/200	
SPECIFICATIONS	
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	400 (370) · 600 (570) · 1000 (970) 1500 (1470) · 2000 (1970) mm

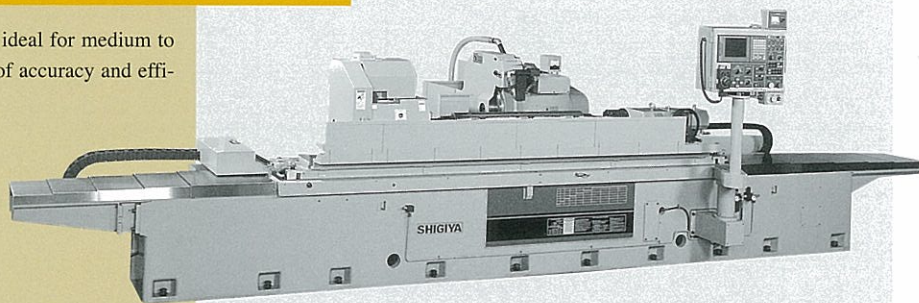


CNC CYLINDRICAL GRINDER

## GP-45(55)B SERIES

Designed and strongly-built for versatile applications - ideal for medium to large size work meeting with critical job requirements of accuracy and efficiency.

MODEL	TYPE	
GP-45 (55) B · 100/150/200 /300/400/500	ND · ND2	
SPECIFICATIONS		
SWING OVER TABLE	φ450 (550) mm	
CENTER DISTANCE	1000mm	1500 · 2200 · 3000 4000 · 5000mm
MAX.WORK LOAD (BETWEEN CENTERS)	650kg	1000kg

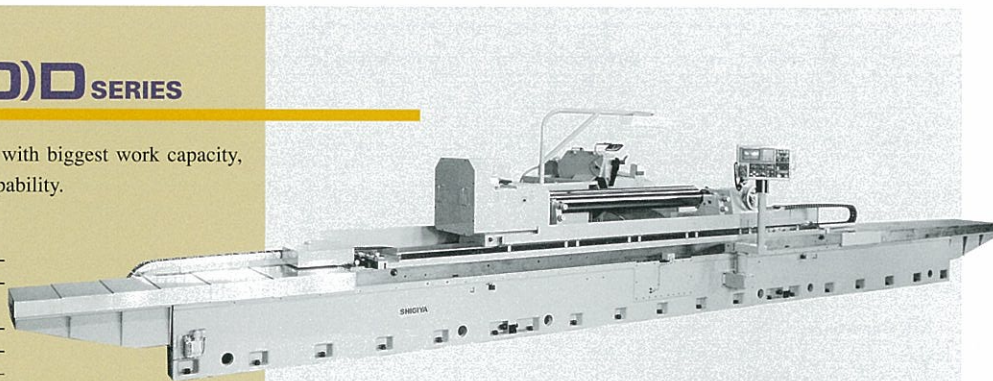


CNC CYLINDRICAL GRINDER

## GP-65(85·100)D SERIES

Huge, table traversing type cylindrical grinder with biggest work capacity, featuring uncompromising precision grinding capability.

MODEL	TYPE
GP-65 <sup>(85/100)</sup> D · 300/400/500/600	ND · ND2
SPECIFICATIONS	
SWING OVER TABLE	φ650 (850, 1000) mm
CENTER DISTANCE	GP-65 (85) D 3000 · 4000 · 5000 · 6000mm
GP-100D 2500 · 3500 · 4500 · 5500mm	
MAX.WORK LOAD (BETWEEN CENTERS)	3000kg



2-HEAD CNC CYLINDRICAL GRINDER

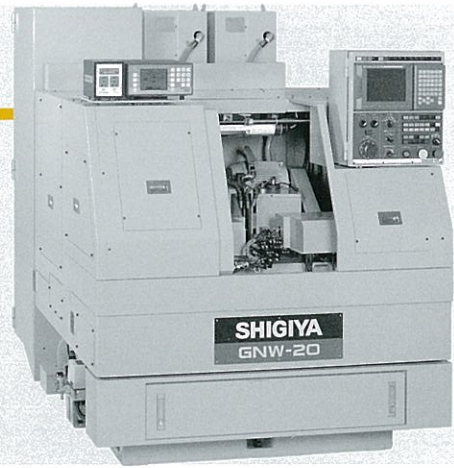
# GNW-20·10

This machine has a small footprint and was designed for small and very precise workpieces.

With twin wheelheads and optional center drive workheads, it is possible to grind all surfaces in one chucking and significantly reduce cycle times while still maintaining a high degree of accuracy.

SPECIFICATIONS

SWING OVER TABLE	φ200mm
CENTER DISTANCE	85mm
WHEEL SIZE OD×WIDTH	φ280×20mm



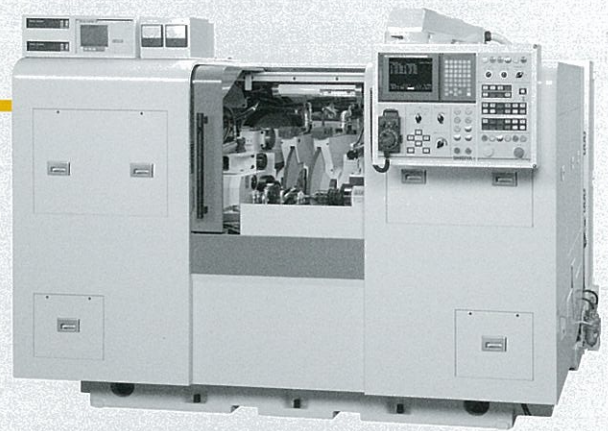
2-HEAD CNC CYLINDRICAL GRINDER

# GNW-30 SERIES

Double wheelhead design allows 2 simultaneous grinding to yield high production output; perfect for small and medium lot production with a wide variety of products.

MODEL

GNW-30·25/40/60/80	
SPECIFICATIONS	
SWING OVER TABLE	φ300mm
CENTER DISTANCE	250·400·600·800mm



COMPACT CNC CYLINDRICAL GRINDER

# GPC-20·10

GPC-20 is a wheelhead traverse type CNC Compact Angular Slide Cylindrical Grinder which offers accurate grinding in small workpieces with small diameters.

SPECIFICATIONS

SWING OVER TABLE	φ200mm
CENTER DISTANCE	100mm
WHEEL SIZE OD×WIDTH	φ355×38mm



COMPACT CNC CYLINDRICAL GRINDER

# GPC-30(40)B SERIES

This model has achieved a narrow machine width of 1.95 m for the center distance of 400 mm (1.58 m for the center distance of 250 mm). This feature allows easy automatization, and its smaller body is helpful in constructing production lines.

MODEL

GPC-30 (40) B·25/40	
SPECIFICATIONS	( ) GPC-40B
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	250·400mm



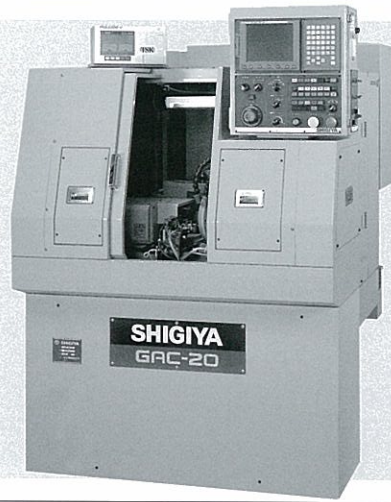
COMPACT CNC ANGULAR CYLINDRICAL GRINDER

# GAC-20·10

Simultaneous grinding of O.D. and shoulder face. Machine is small in size, yet big in use-ability. Perfect for high efficiency, precision grinding of small parts. Easily combined with auto loader and transfer equipment, allowing quick changeover to automation system.

SPECIFICATIONS

SWING OVER TABLE	φ200mm
CENTER DISTANCE	100mm
WHEEL SIZE OD×WIDTH	φ355×38mm



LINEAR MOTOR SYSTEM  
COMPACT CNC ANGULAR CYLINDRICAL GRINDER

# GACL-20·20

A linear motor and a high-resolution linear scale have been provided on the wheelhead feed mechanism (X and Z axes), and thus allowing high-precision positioning. The machine width is as narrow as 1500 mm, and this has saved space and allowed easy automatization by combination with loaders.

SPECIFICATIONS

SWING OVER TABLE	φ200mm
CENTER DISTANCE	200mm
WHEEL SIZE OD×WIDTH	φ510×50mm



COMPACT CNC ANGULAR CYLINDRICAL GRINDER

# GAC-30(40)B SERIES

One of the two greatest series as well as GPC series. That is powerful high accuracy cylindrical grinder and can grind O.D. and shoulder at once.

MODEL

GAC-30 (40) B·25/40	( ) GAC-40B
SPECIFICATIONS	
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	250·400mm



CNC ANGULAR CYLINDRICAL GRINDER

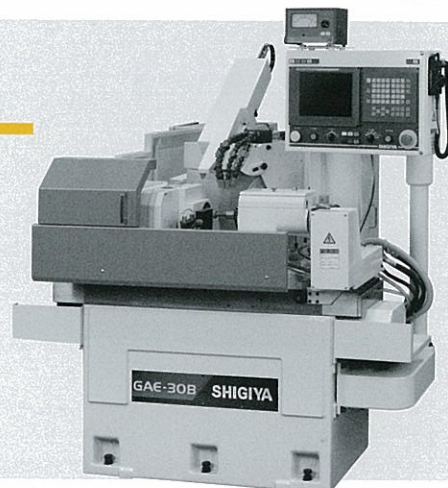
# GAE-30(40)B SERIES

GAE-30 series are CNC 2-axis Angle Head General Purpose Cylindrical Grinder.

The angle head type wheelhead on a straight approach grinder has made rapid progress in easy to use.

MODEL

GAE-30 (40) B·25/50/75/100/150/200	( ) GAE-40B
SPECIFICATIONS	
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	250 (220) ·500 (470) ·750 (720)
	1000 (970) ·1500 (1470) ·2000 (1970) mm
WHEEL SIZE OD×WIDTH	φ510×50mm

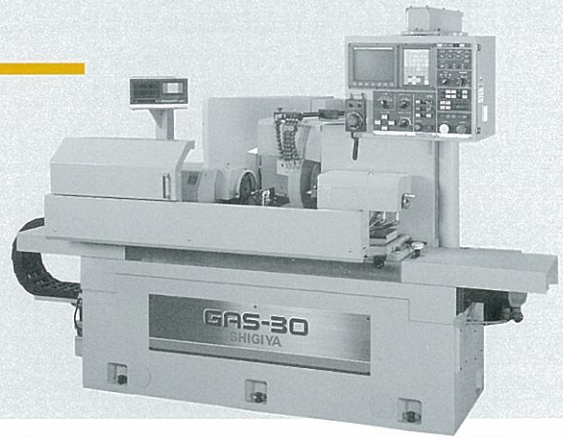


### CNC ANGULAR CYLINDRICAL GRINDER

## **GAS-30(40)B** SERIES

Features large diameter wheelspindle and rigid tailstock design. Heavy-duty precision grinding achieved by highly stable spindle rotation, and very efficient operation by simultaneous grinding of O.D. and shoulder face.

MODEL	TYPE
GAS-30(40)B-50/100	ND2
SPECIFICATIONS	( ) GAS-40B
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	500 (430) · 1000 (930) mm
WHEEL SIZE OD×WIDTH	φ610×75mm

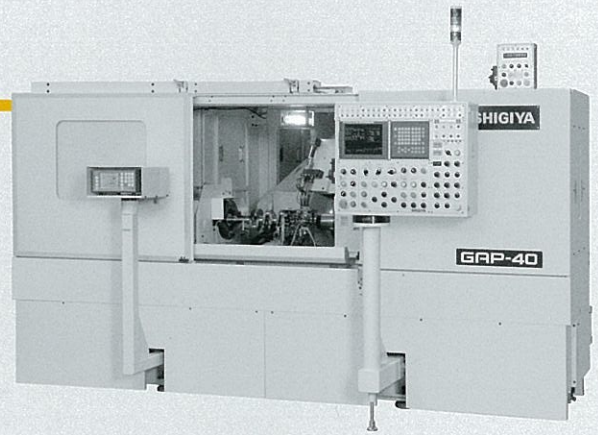


### PRODUCTION TYPE ANGULAR CNC CYLINDRICAL GRINDER

## **GAP-40** SERIES

Massive construction for heavy duty operation to meet medium and large lot production requirements with a very wide wheel. Provides highest efficiency for plunge-cut grinding.

MODEL	TYPE
GAP-40·60/100	NZ2
SPECIFICATIONS	
SWING OVER TABLE	φ410mm
CENTER DISTANCE	530·930mm
WHEEL SIZE OD×WIDTH	φ760×160mm
WHEEL SIZE OD×WIDTH (Option)	φ760×205mm

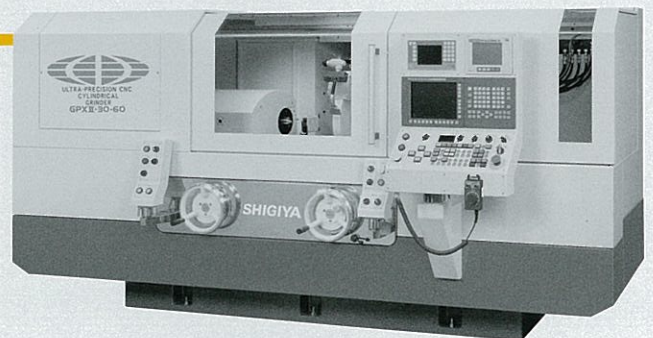


### ULTRA-PRECISION CNC CYLINDRICAL GRINDER

## **GPXII-30**

This model is an ultra-precision CNC cylindrical grinder with the highest-level performance inherited from the first "GPX", and has been produced by combining SHIGIYA's technologies including a closed type hydrostatic wheelhead slide and an extremely low vibration wheel spindle motor. Innovative ultra-fine infeed has been realized with this model.

MODEL	
GPX II -30·40/60	
SPECIFICATIONS	
SWING OVER TABLE	φ300mm
CENTER DISTANCE	400·600mm
WHEEL SIZE OD×WIDTH	φ405×50mm

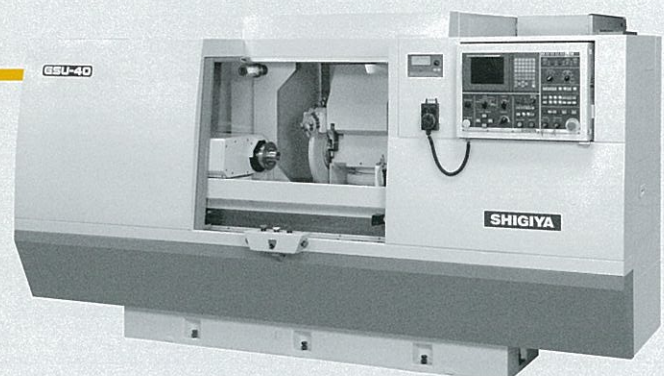


### CNC UNIVERSAL GRINDER

## **GSU-30(40)** SERIES

This machine grinds a variety of work pieces accurately, without extra grinding machines and worthless arrangements for each work piece. By the synchronized multi-axis control, GSU, the comprehensive grinder, is capable of the great productivity with accuracy.

MODEL	
GSU-30(40)·400/600/1000	
SPECIFICATIONS	( ) GSU-40
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	400 (370) · 600 (570) · 1000 (970) mm



# CONVENTIONAL OPERATION GRINDERS

## SUPERIOR OPERABILITY FOR QUALITY GRINDING

SHIGIYA's precision cylindrical and universal grinders series GP/GU is a full line ranging from manual to motor-driven infeed grinding operation; a wide selection of models is able to meet every kind of grinding need.

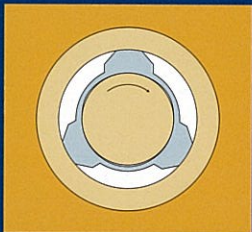
This series of machine is flexible enough for system expansion, allowing for quick adaptation to an automated production line.

SHIGIYA's machine design common to all models features excellent operability and flexibility for production needs.

TYPE · CHARACTERISTICS	WHEEL-HEAD FEED			TABLE TRAVERSE	
	RAPID HYD.	INFEEED MANUAL	INFEEED HYD.	MANUAL	HYD.
MANUAL <b>F</b> HIGH REPEATABILITY FOR PRECISION GRINDING	—	●	—	●	—
HYDRAULIC ACTUATED <b>H</b> EASY WHEEL-HEAD INFEEED AND TABLE TRAVERSE SIMPLY BY HANDLE OPERATION	●	●	—	●	—
AUTOMATIC HYDRAULIC OPERATED <b>A</b> HIGH PRECISION GRINDING ACHIEVED BY MECHANICAL FEED STOP AT HYDRAULIC CYLINDER END	●	●	●	●	●

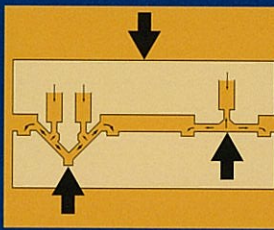
### Shigiya's advanced design concept

**NON-CONCENTRIC WEDGE-TYPE HYDRO-DYNAMIC BEARINGS SECURE HIGH ROTATIONAL STABILITY OF THE WHEELSPINDLE**



The essence of our finest expertise in manufacturing and fabrication is the wheelspindle. Its optimal design-and-built curved wedge, hydro-dynamically operating bearing, secures maximum rotational stability and accuracy for high precision grind quality for many years of service.

**HIGHLY RUGGED FEED MECHANISM TO GUARANTEE PRECISION GRINDING**



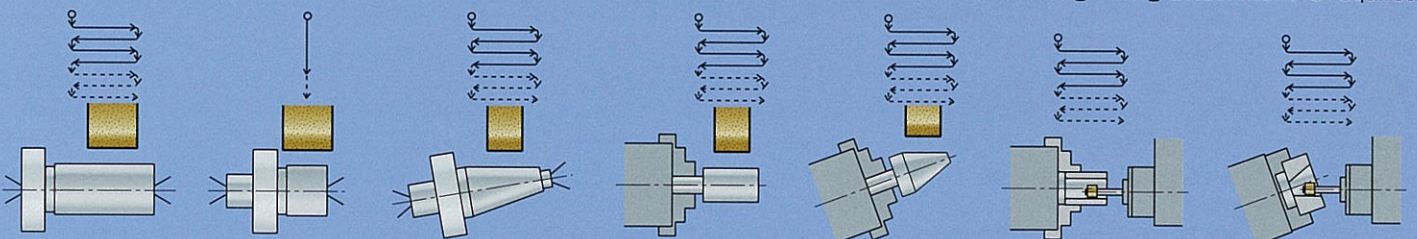
SHIGIYA's precision grinders incorporate a highly sturdy infeed mechanism with a large diameter precision grade ballscrew directly coupled with a high output AC servo drive, thus assuring extremely high repeatability in positioning accuracy.

The wheelhead with wide V and flat slide guides provide sufficient load capacity and rigidity through the support of a hydro-static lubrication bearing system.

### GRINDING PATTERN

(Live spindle workhead with swivel base is required.)

(Internal grinding attachment is required)





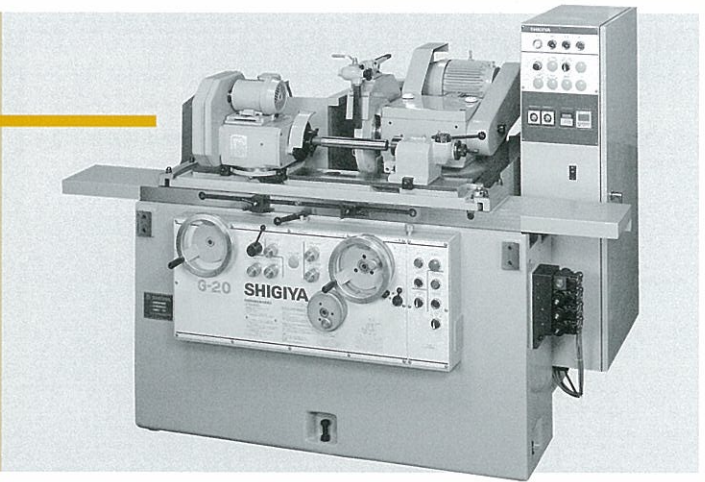
SMALL CYLINDRICAL/UNIVERSAL GRINDER

# G-20 SERIES

Wide choice, from manual to automatic infeed, to best fit each application.

Highly reliable in delivering precision grinding for small parts.

MODEL	TYPE
GP-/GU-20/25	F·H·A
GP-/GU-20/50	F·H·A
SPECIFICATIONS	
SWING OVER TABLE	φ200mm
CENTER DISTANCE	250·500mm



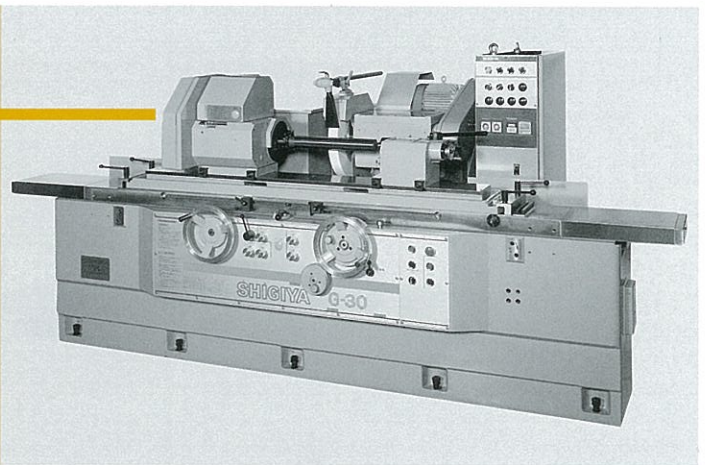
CYLINDRICAL/UNIVERSAL GRINDER

# G-30(40)B SERIES

Varies from manual to automatic infeed type.

Huge number of options available, to satisfy every cylindrical grinding need. This series is the most long-seller. It proves high quality & reliable operation.

MODEL	TYPE
GP-/GU-30 (40) B·40/60	F·H·A
GP-/GU-30 (40) B·100/150/200	H·A
SPECIFICATIONS ( ) G-40B	
SWING OVER TABLE	φ300 (410) mm
CENTER DISTANCE	400 (330) · 600 (530) · 1000 (930) 1600 (1530) · 2100 (2030) mm



CYLINDRICAL GRINDER

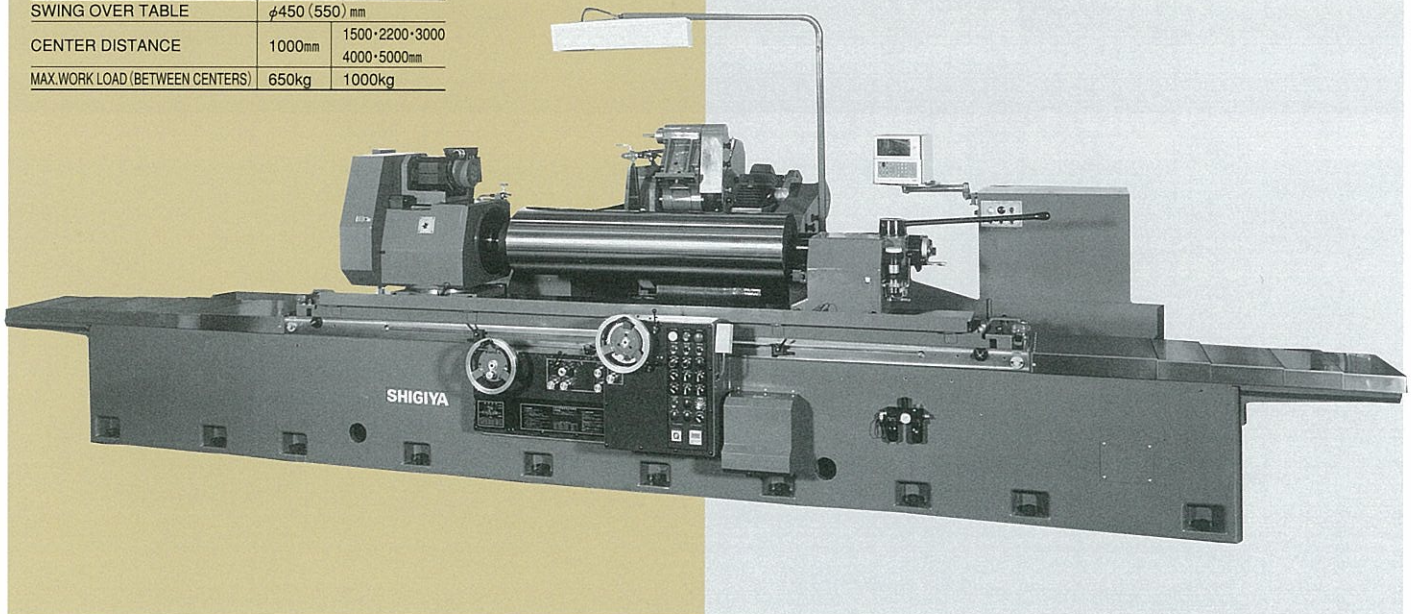
# GP-45(55)B SERIES

Versatile, Medium-sized machine.

Easy-to-operate, offering construction ruggedness for unchanging grinding precision.

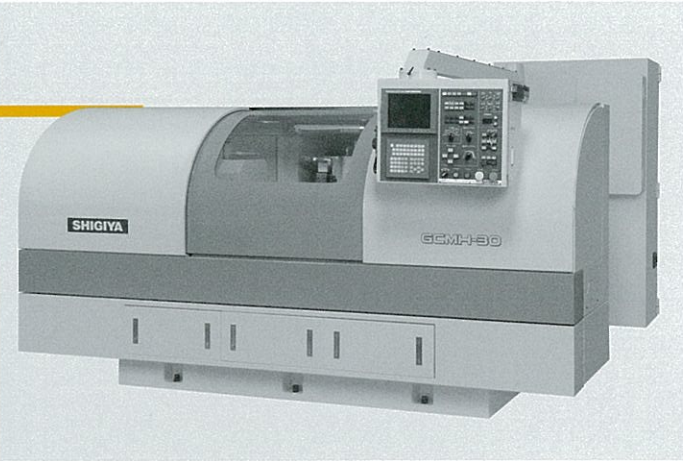
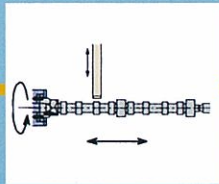
Ideal for medium and large components.

MODEL	TYPE
GP-45 (55) B·100/150/220/300 /400/500	A
SPECIFICATIONS ( ) GP-55B	
SWING OVER TABLE	φ450 (550) mm
CENTER DISTANCE	1000mm 1500·2200·3000 4000·5000mm
MAX.WORK LOAD (BETWEEN CENTERS)	650kg 1000kg



CNC MASTERLESS CAM GRINDER  
**GCMH-30**

Aiming for high quality and high production. SHIGIYA CNC Masterless Cam Shaft Grinder GCMH-30 series is equipped with conversational cam and journal automatic programming system. 350mm(14inch). 100m/sec. (20000ft/min.) CBN wheel capability as standard.



MODEL	
GCMH-30·25/60	
SPECIFICATIONS	
SWING OVER TABLE	φ300mm
CENTER DISTANCE	250 / 630mm
WHEEL SIZE OD×WIDTH	φ350×25mm

# Speciality

## DEDICATED AND CUSTOM DESIGNED GRINDERS

Special purpose or dedicated machines are designed to achieve high productivity and grinding quality, thus permitting an ideal fit to the diversified needs from a wide variety of users.

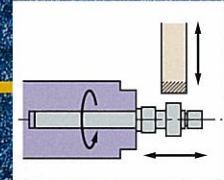


■ POLYGON-SHAPE PATTERN

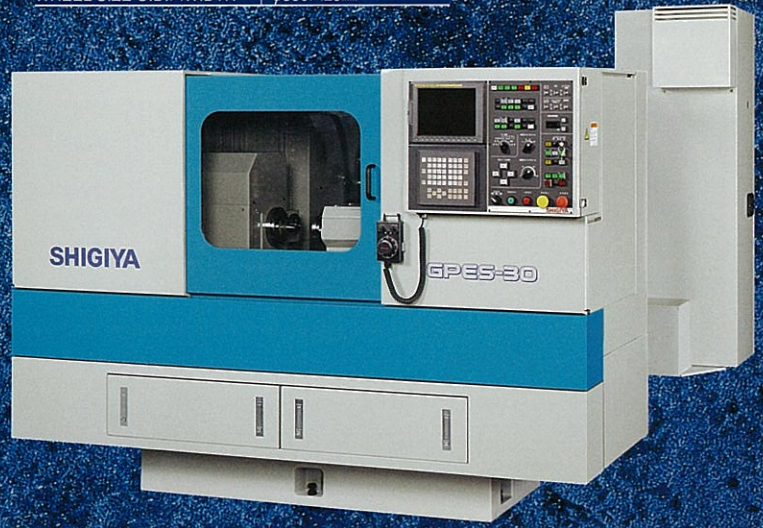
1. DIAMOND		8. SUARE	
2. ECCENTRIC		9. HEXAGON	
3. DROP		10. RECTANGLE	
4. TRIANGLE		11. SINGLE D	
5. OVAL		12. DOUBLE D	
6. TRAPEZOID		13. POLYGON	
7. TRACK		14. PRE SHAPE	

CNC ECCENTRIC PIN/POLYGON GRINDER  
**GPES-30**

Such high performance grinding as eccentric pin, polygon oval will be done with easy operation. Automatic functions for grinding conditioning and work spindle speed overriding are equipped with the machine. These provide excellent shaping precision and make the surface smooth.

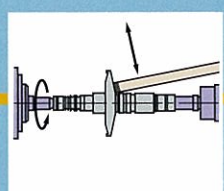


MODEL	
GPES-30·25/60	
SPECIFICATIONS	
SWING OVER TABLE	φ300mm
CENTER DISTANCE	250 / 630mm
WHEEL SIZE O.D.×WIDTH	φ350×25mm



CVT GRINDER  
**GSF-30**

This is the machine designed for CVT shaft journal and face within the one chucking. Utilizing CBN wheel with programmable wheelhead for hi-speed hi-accuracy plunge, transverse and contouring grinding.

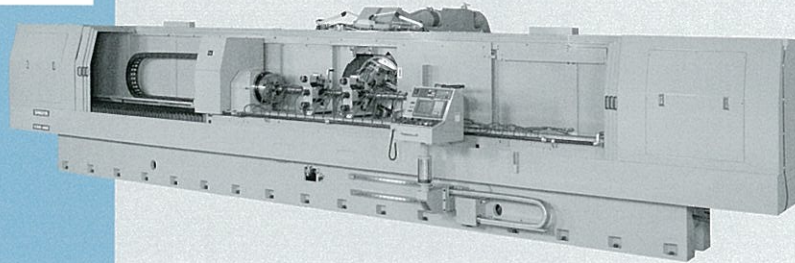
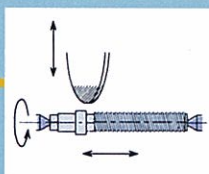


SPECIFICATIONS	
SWING OVER TABLE	φ300mm
CENTER DISTANCE	350mm
WHEEL SIZE OD × WIDTH	φ350×25mm

CNC THREAD GRINDER

# GSR-48B

This model is a CNC screw thread grinder for heavy duty grinding, which offers highly-efficient grinding of injection screws, etc. With this model, the wheelhead and the NC 2-axis wheel dressing device can be simultaneously rotated by the motor according to the screw lead angle, and thus substantially improving set-up changes.



MODEL

GSR-48B-150/400

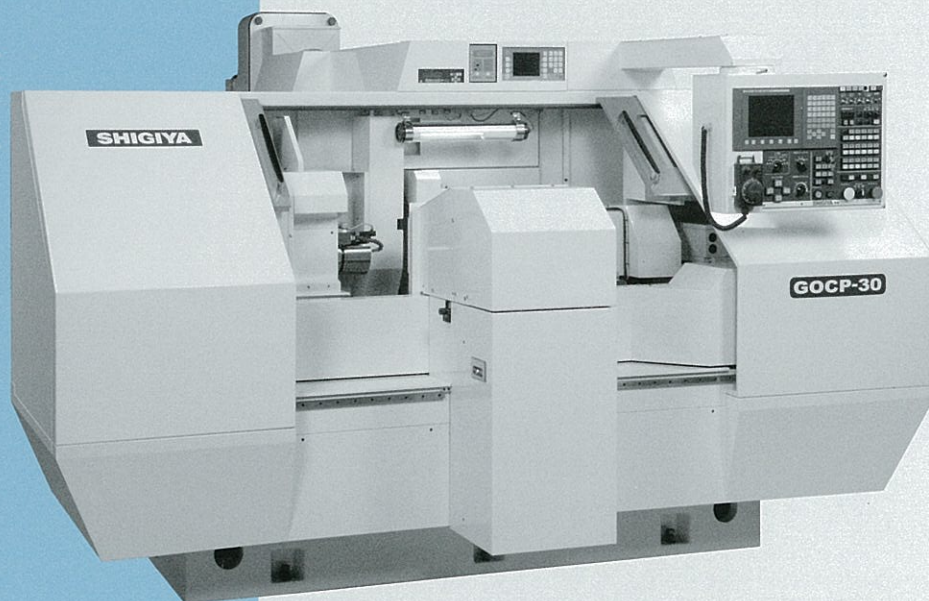
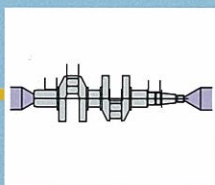
SPECIFICATIONS

SWING OVER TABLE	φ480mm
MAX. GRINDING DIAMETER	φ200mm
CENTER DISTANCE	1500-4000mm

CNC CRANK PIN GRINDER

# GOCP-30-50

Because of the special grinding spec, like journal center, GOCP achieves the accurate grinding for any types of eccentric works, like Crankshafts.



SPECIFICATIONS

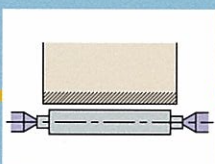
MAX. GRINDING DIAMETER	φ300mm
CENTER DISTANCE	500mm
1/2 stroke	50mm

COMPACT CNC RUBBER ROLL GRINDER

# GRN-20 SERIES

Rubber roll crown grinding is no longer the big issue.

This GRN-20 series CNC compact size machine is designed specifically for rubber roll grinding, using SHIGIYA's superior cylindrical grinding manufacturing and technological know-



MODEL

GRN-20-50/25W/34W

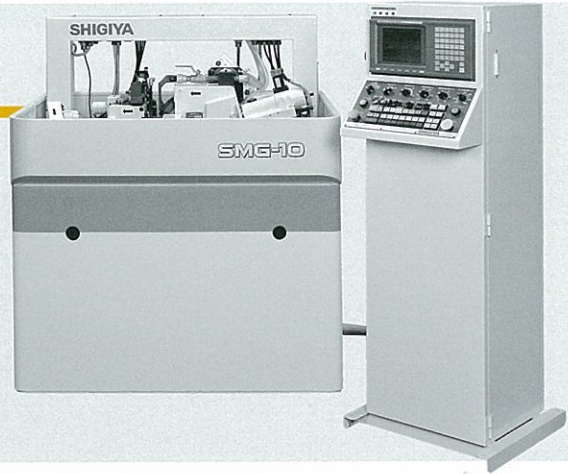
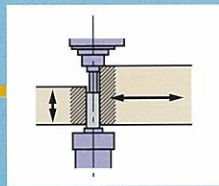
SPECIFICATIONS

SWING OVER TABLE	φ200mm
CENTER DISTANCE	600mm
WHEEL SIZE OD×WIDTH	φ405×50mm
WHEEL SIZE OD×WIDTH 25W/34W	φ355×250/340mm

CNC CENTERLESS GRINDER  
**SMG-10**

This is OD/Face centerless grinder equipped with CNC longitudinal control.

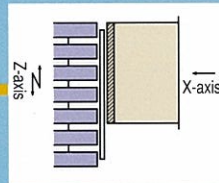
Not only do thru feed, and plunge OD, this centerless grinder is able to do oscillate grinding, traverse grinding.



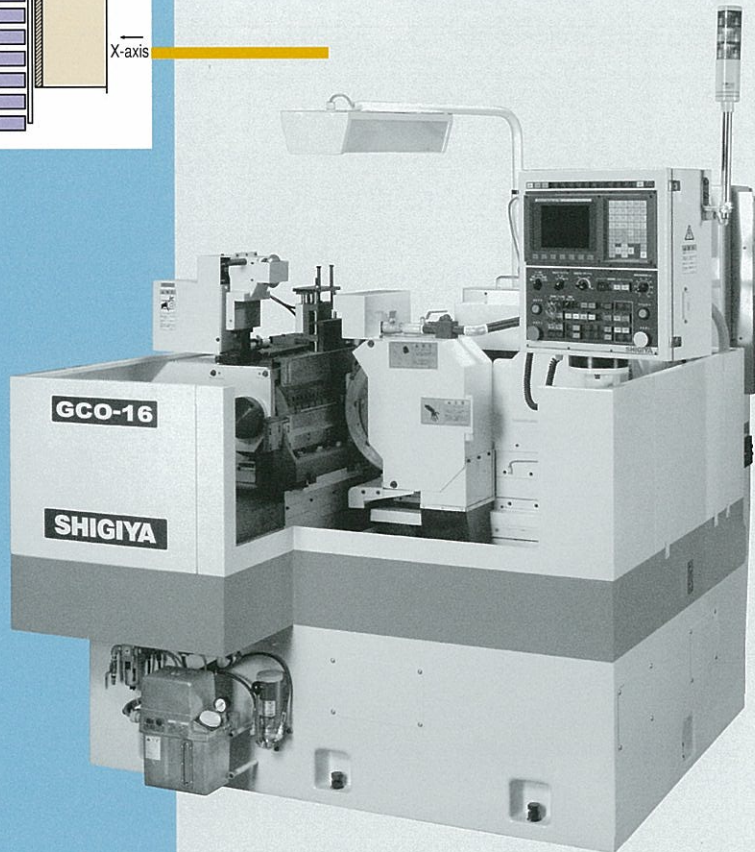
SPECIFICATIONS	
MAX. GRINDING DIAMETER	φ0.5~10mm
MAX. GRINDING LENGTH	30mm
WHEEL SIZE OD × WIDTH	φ255×32×φ127mm

CNC CENTERLESS CYLINDRICAL GRINDER  
**GCO-16 SERIES**

GCO has an innovational concept. In addition, this centerless machine has easy operation.

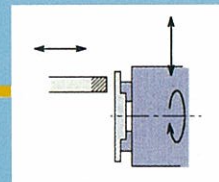


MODEL	
GCO-16-15/32	
SPECIFICATIONS	
MAX. GRINDING DIAMETER	φ45mm
MAX. GRINDING LENGTH	GCO-16.15 150mm
	GCO-16.32 320mm

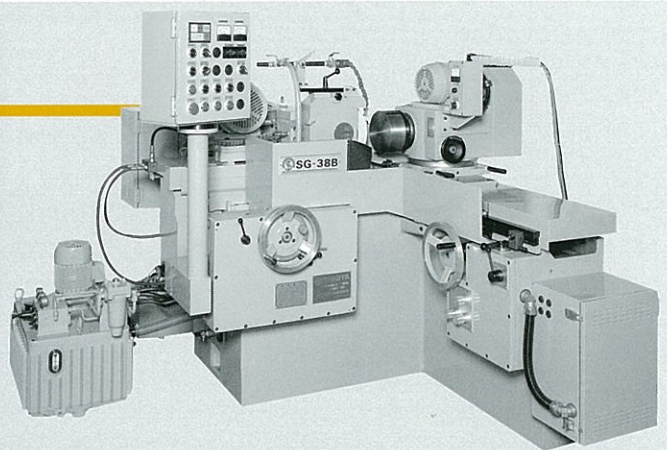


FACE GRINDER  
**SG-38B**

Faces of bearing spacers, gears, side faces of slitter knives, metal saws, diamond wheels, etc. can be ground to the highest standards.



SPECIFICATIONS	
MAX. GRINDING DIAMETER	φ400mm
WHEEL OD TO SPINDLE FACE	250mm
WHEEL SIZE OD×WIDTH	φ305×25mm



# Automation

## AUTOMATED SYSTEM TO ACCOMPLISH COST-SAVING PRODUCTION

One of the current approaches receiving considerable attention as a way to effective production management is cost-saving throughout an organization; searching for the most effective technique in every field. SHIGIYA's cylindrical and universal grinders have excellent precision, durability, operability and application flexibility, resulting in high productivity. This productivity can be enhanced by the grinder's easy adaptation, when linked with an industrial robot, auto loader and transfer equipment, etc., resulting in a configuration for the most competent automation system. Current market needs, such as low cost production, high quality products, ... are satisfied by SHIGIYA with field-verifiable achievements.



- ◎ GANTRY TYPE AUTO LOADER
- ◎ CRADLE TYPE AUTO LOADER
- ◎ OTHER CUSTOM DESIGNED WORK LOADER



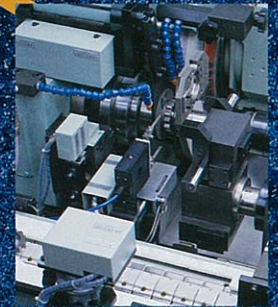
### ROBOT

- Freedom in job floor layout
- Wide selection of transfer devices
- Flexibility of production system configuration
- A single robot is able to load/unload parts into/out of a multiple number of machines



### TWIN-ARM LOADER

- Application: OD grinding locating between centers
- Example: Motorshafts, gear shafts, etc.

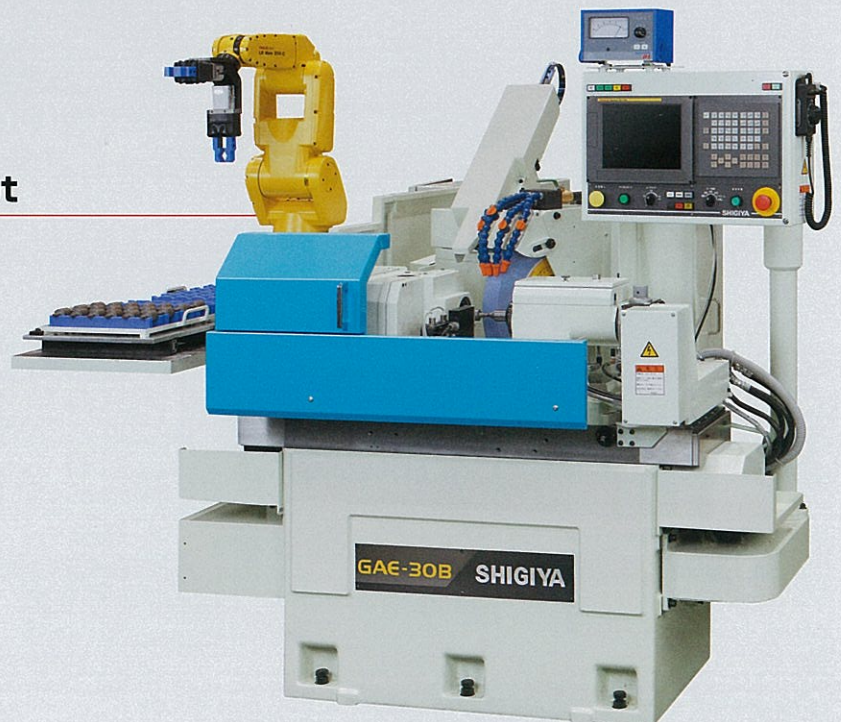


### 90° Indexable work loader

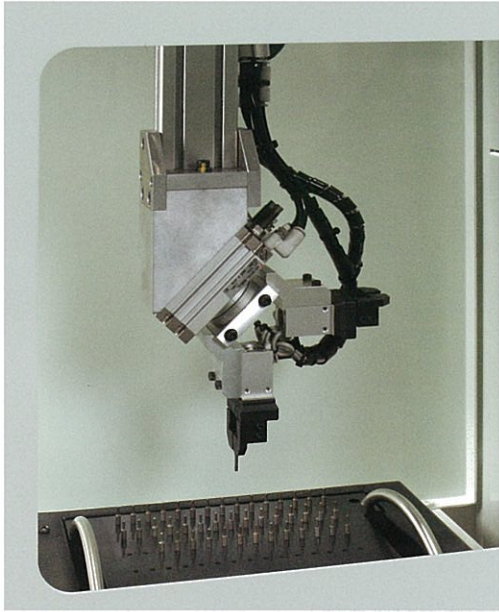
- Application: OD grinds locating on inner dia.
- Example: Speedgears, oil pump gears, etc.

## Variety of automation lines can be constructed like clockwork

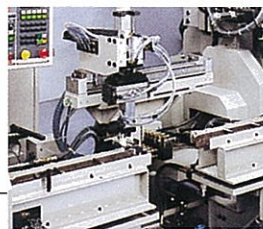
### Integration with CNC Robot



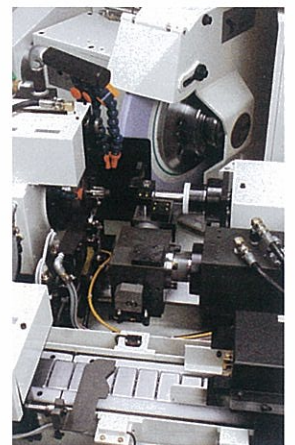
**Integration with CNC controlled gantry loading system**



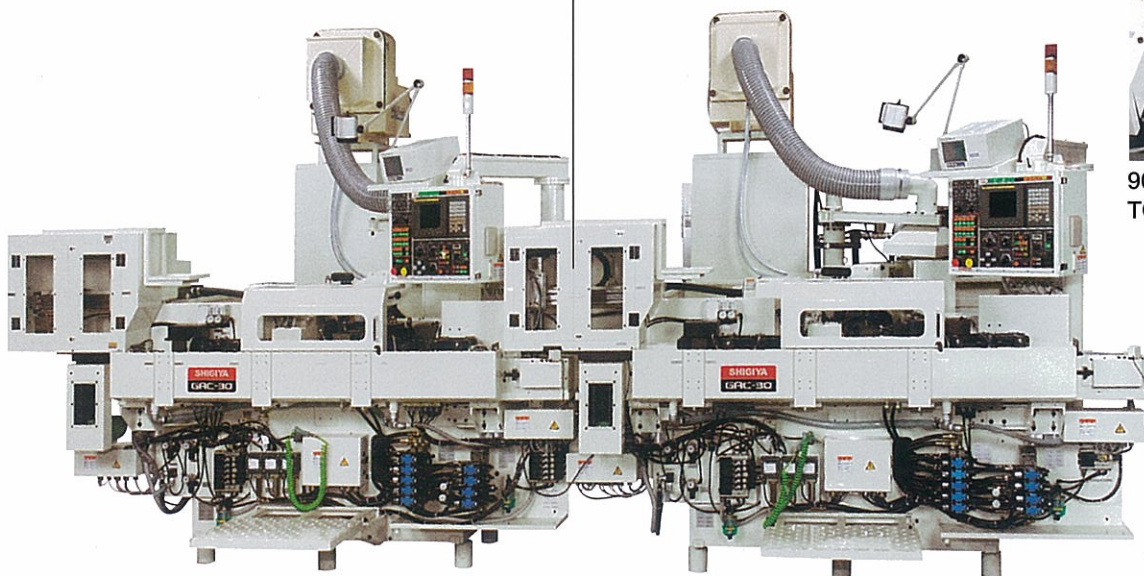
**90° index type loading arm and top chain conveyor**



TRANSFER DEVICE (INTEGRATING)



90° INDEX LOADER & TOP-CHAIN CONVEYOR





## Profile

SHIGIYA, #1 variety of product lines, has reinforced the Research and Development department in order to increase its development capacity for high accuracy and quality advancement. SHIGIYA pursues to develop complex/multi-function and high-speed machines for high productivity, cost savings, and super high accuracy requirements. SHIGIYA has also accepted the challenge to develop advanced technologies to cope with new and hard to grind materials and to meet the users' needs precisely and specifically.



Assembly shop



Temperature-controlled factory  
(Ultra-precision column-type surface grinding machine)



Design room



**SHIGIYA ( USA ) LTD.**  
406 Diens Dr. Wheeling IL 60090, USA



ISO9001 Certified  
JQA-3255



REGISTERED ORGANIZATION  
No.E1147-ISO14001

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