

JAGULAR INDUSTRY LTD. has been established in 1986. Base on the excellent technologies and R&D capability, we manufacture and provide a wide range of high quality grinding machines for various grinding applications. In order to provide our customers' more selection and better services, we have been continuously enhancing our grinding technique and improving the mechanism design. In the beginning, we manufactured punch grinder and various internal and external grinding machines. After over 30 years' continuous effort, we now can manufacture full range of CNC internal and cylindrical grinding machines, CNC internal grinding machine, CNC cylindrical grinding machine, CNC centerless grinding machine, variety of precision micro internal and external grinding machine and precision knife grinder. The most variety of grinding machines can satisfy all our clients. We sell our grinding machine under the brand name "JAGURA" all over the world.



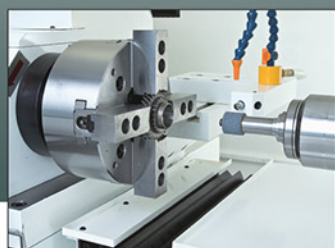
CNC CYLINDRICAL GRINDER

- CG175
- CG2535
- CG2550
- CG2575
- CG3240
- CG3250
- CG3260
- CG3275
- CG32100
- CG32120



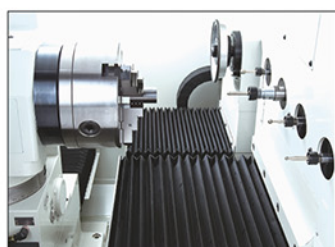
CNC CYLINDRICAL GRINDER (ANGULAR TYPE)

- CGA2535
- CGA2550
- CGA3545
- CGA3565



CNC INTERNAL GRINDER

- IG06
- IG50
- IG80
- IG150
- IG35100
- IG35150
- IG35200



INTERNAL & CYLINDRICAL GRINDER (CARBIDE DIE SERIES)

- ICG-S200
- ICG-SL200
- ICG-SL210
- ICG-SL410



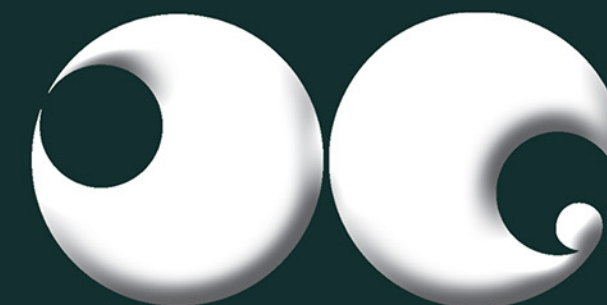
INTERNAL & CYLINDRICAL GRINDER (IN-LINE SERIES)

- ICG1512 SL11 SL20
- ICG2012 SL11 SL20
- ICG2512 SL11 SL20



CNC CENTERLESS GRINDER

- 12C
- 18C
- 1810C
- 1812C
- 20C
- 2010C
- 2012C
- 24C
- 2410C
- 2412C



CYLINDRICAL GRINDER SERIES



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Reaching you... Worldwide

JAGULAR INDUSTRY LTD.



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The design principle of Jagura Cylindrical Grinding Machine Series is emphasized on operation ability and working function. The full series provide users total solutions to completely satisfy all users' requirement. The full series complete with several models which are equipped with various center distances and center heights. Especially, the control system is equipped with our own dialog operation interface. It makes operation very easy. Furthermore, it can work with various measuring instruments to enhance workpiece quality and production efficiency.



Description of models:

Basic Type (AL series)

X-axis is manual feed and Z-axis is driven by worm gear with rack gear. Moreover, workhead positioning brake unit is the standard accessory. It can notably save loading and unloading time. User can be familiar with the operation easily.



JAG-CG2550-AL

With Internal Grinding Attachment(Optional)

One axis NC(NC1 series)

Break through the traditional automatic hydraulic sizing and hydraulic rapid feed, the X-axis of this model is driven by ball screw and servo motor. The positioning accuracy is up to ± 0.001 mm. Furthermore, its waiting position can be set according to user's requirement. That can enhance production efficiency.



JAG-CG2535-NC1



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Easy CNC series

This series is specially design for grinding multi-step workpiece. Both X-axis and Z-axis are driven by ball-screw and servo motor. The positioning accuracy is up to ± 0.001 mm. The control system is user-friendly dialog operation interface. Operator just select the required grinding path, set operation parameters and key in required grinding size and then the machine will perform full automatic grinding processes. Operator can easily operate EASY CNC series without having to edit G codes and M codes.



JAG-CG3260-CNC(Easy)

CNC series

This series is especially design for profile grinding, such as OD taper and circular arc. Both X-axis and Z-axis are driven by ball-screw and servo motor. The positioning accuracy is up to ± 0.001 mm. The control system is user-friendly dialog operation interface. Operator just select the required grinding path, set operation parameters and key in required grinding size and then the machine will perform full automatic grinding process. Operator can easily operate CNC series without having to edit G codes and M codes. Furthermore, it can work with various measuring instructions to enhance workpiece quality and production efficiency.



JAG-CG3260-CNC



JAG-CG175-CNC

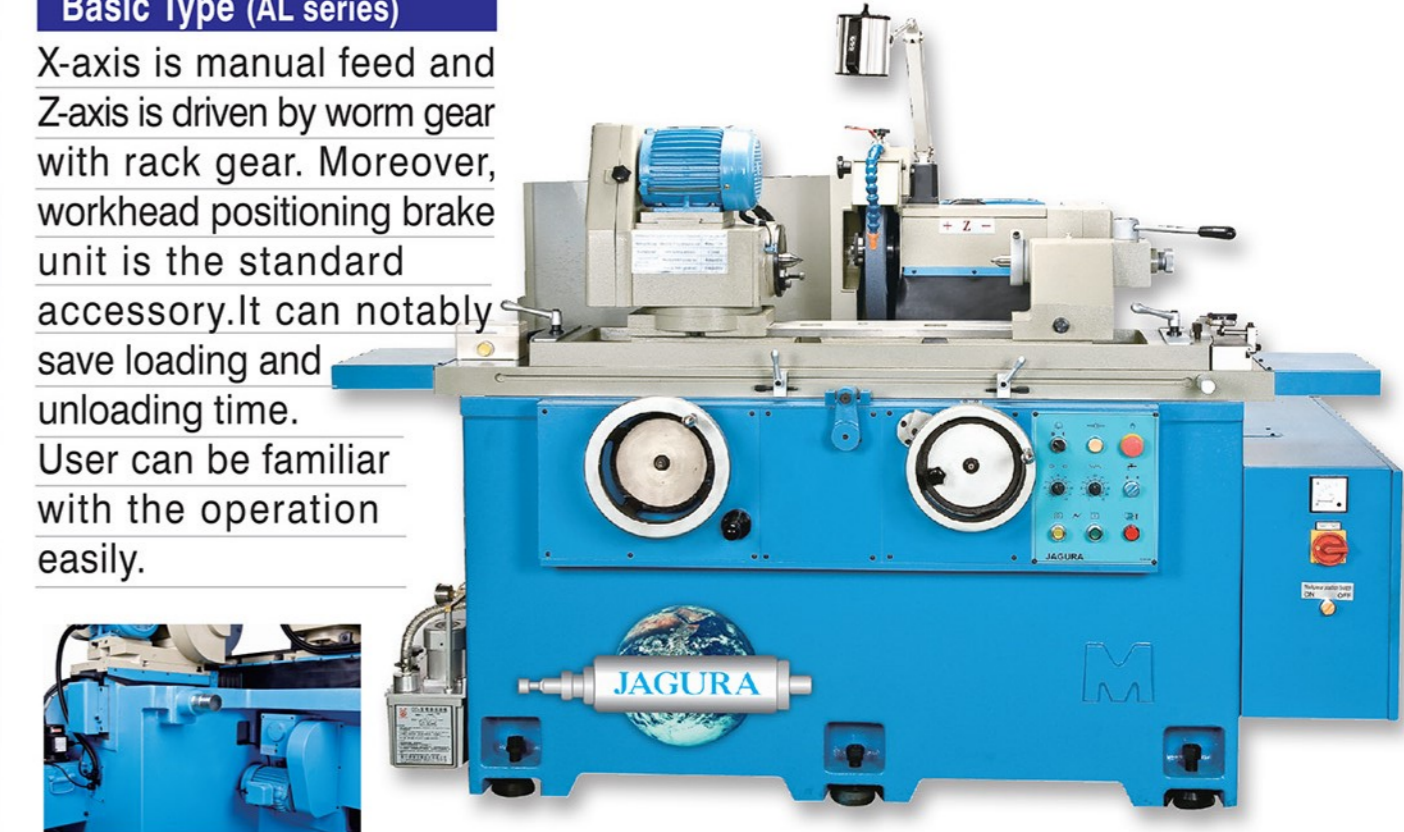


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Basic Series

Basic Type (AL series)

X-axis is manual feed and Z-axis is driven by worm gear with rack gear. Moreover, workhead positioning brake unit is the standard accessory. It can notably save loading and unloading time. User can be familiar with the operation easily.



JAG-CG2575-AL

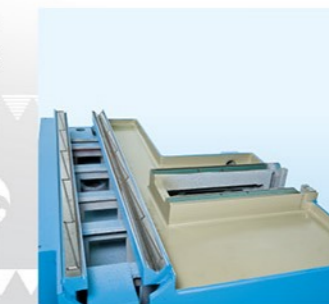
Machine Bed

The machine bed was designed using the most advanced mechanical principles, to minimize the external factors which can adversely impact accuracy. The bed is virtually vibration free. It is constructed of high quality Meehanite cast iron, fully normalized for stability and distortion-free operation. The machine bed and slides are heat treated and precision ground and the guideways was designed with a longer span for optimum work table support.



Longitudinal and Cross Slide

The slideways are configured with a V and a Flat Way. They are hand-scraped and equipped with an automatic lubrication system, which presets the pressure and operation for smoothness and accuracy.



Spindle Headstock

1. The spindle headstock was designed for high rigidity. The spindle is equipped with P4 grade, pre-pressurized bearings.
2. The spindle was designed for both fixed center and rotary center use, The operator can easily select either center mode or chuck clamping mode.
3. A work piece positioning device comes standard and is conveniently located to assist in maximum production efficiency.



Swivel over table ϕ 250mm

Swivel over table ϕ 320mm



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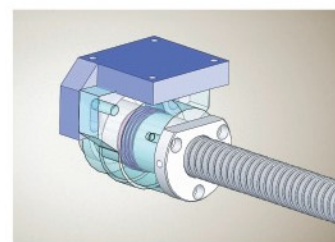
CG2550-AL

Control Panel



X axis feeding positioning device

Lead Screw Backlash device



Z axis Manual / Auto traversing switching mandrel

Tailstock:

The rigid tailstock is constructed of hardened alloy steel to support the MT3 or MT4 center. Sleeve tension is easily adjusted with one conveniently located knob.



Swivel over table #250mm



Swivel over table #320mm

Grinding Wheel Seat

The grinding wheel spindle is constructed of high quality alloy steel SNCM439. It is normalized, tempered, carburized, sub-zero treated and then precision ground. The spindle bearings are a combination of hydrostatic and hydrodynamic. This design is well suited for heavy loads that are stable and deflection free, providing the longest bearing life with close tolerance (sub-micron) grinding. It's able to choose bearing type spindle.



Wheel Size #355mm



Wheel Size #405mm



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CG3240-AL



CG3260-AL



Reaching you...Worldwide

Basic Series specifications

MODEL: Basic	CG2535-AL	CG2550-AL	CG2575-AL	CG3240-AL	CG3250-AL	CG3260-AL	CG3275-AL
Capacity	Max. swivel over table(mm)	250	250	250	320	320	320
	Max. distance between centers(mm)	350	500	750	400	500	750
	Max. external grinding diameter(mm)	250	250	250	320	320	320
	Max. load of centers(kg)	80	80	80	120	120	120
Grinding Wheel	(OD x width x ID) Wheel size	355X38X101.6/127	355X38X101.6/127	355X38X101.6/127	405X56X127	405X56X127	405X56X127
	Spindle variable speed change	2	2	2	2	2	2
Wheel head	Speed(rpm)	1900-1500	1900-1500	1900-1500	1700-1300	1700-1300	1700-1300
	Front and back travel distance(mm)	150	150	150	150	150	150
Table	Swivel angle	±30°	±30°	±30°	±30°	±30°	±30°
	Table span(mm)	150	150	150	170	170	170
Workhead	Center	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4
	Speed(rpm)	0~300	0~300	0~300	0~300	0~300	0~300
Tailstock	Swivel angle	90°	90°	90°	90°	90°	90°
	Center	M.T.3	M.T.3	M.T.3	M.T.4	M.T.4	M.T.4
Feed slide	Stoke distance(mm)	25	25	25	30	30	30
	X-axis minimum resolution increment(mm)	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Motors	Z-axis rapid feed rate	0~4	0~4	0~4	0~4	0~4	0~4
	Grinding wheel motor(HP)	5	5	5	7.5	7.5	7.5
	Spindle motor(HP)	1/2	1/2	1/2	1	1	1
	Z-axis motor(HP)	1/2	1/2	1/2	1/2	1/2	1/2
	Table lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8
	Wheel head lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8
Machine Measurement	Coolant pump(HP)	1/8	1/8	1/8	1/8	1/8	1/8
	L X W X H(mm)	2000X1300X1550	2000X1300X1550	2200X1300X1550	2000X1300X1550	2000X1300X1550	2200X1300X1550
Gross weight(kg)	2500	2700	3000	2750	2850	3000	3200

* All specifications and design are subject to change without notice.

NC1 software & Dialogue HMI (Human Machine Interface)

One axis NC(NC1 series)

Break through the traditional automatic hydraulic sizing and hydraulic rapid feed, the X-axis of this model is driven by ball screw and servo motor. The positioning accuracy is up to $\pm 0.001\text{mm}$. Furthermore, its waiting position can be set according to user's requirement. That can enhance production efficiency.

JAGURA NC1 Series cylindrical grinding machines are specially designed for auto feeding. The NC1 control system is constructed by DELTA but it employs the exclusive advanced software developed by JAGURA.

Unlike traditional automatic hydraulic Control sizing and hydraulic rapid feed system, JAGURA Dialogue HMI is easy to both learn and use, thereby saving JAGURA NC1 users valuable training time as well as money.

The JAGURA Dialogue HMI is divided into 3 main sections: Main Menu, Grinding Path Programs, and Program Links. Users simply select a grinding path, enter the processing parameters, and the machine can start to work.

JAGURA Dialogue HMI is the best solution for grinding, especially OD grinding. The graphic directory enables the user to divide complicated grinding processes into individual stages. First, one of the pre-loaded grinding programs is selected: OD grinding. After choosing from the program list, the operator can set up total feed volume, individual cycle feed volume, feed speed, spindle RPM, workhead RPM. This function not only reduces time spent adjusting tools, but also reduces the potential for accidental input errors. It greatly improves efficiency and assures production of the finest quality parts, while employing the most user friendly operation.



Main Menu



Grinding rates



Link cycles

NC1 Series



CG2535-NC1

NC1 Series

MODEL: ONE AXIS NC		CG2535-NC1	CG2550-NC1	CG2575-NC1	CG3240-NC1	CG3250-NC1	CG3260-NC1	CG3275-NC1
Capacity	Max. swivel over table(mm)	250	250	250	320	320	320	320
	Max. distance between centers(mm)	350	500	750	400	500	600	750
	Max. external grinding diameter(mm)	250	250	250	320	320	320	320
	Max. load of centers(kg)	80	80	80	120	120	120	120
Grinding Wheel	(OD x width x ID) Wheel size	355X38X101.6/127	355X38X101.6/127	355X38X101.6/127	405X56 X127	405X56X127	405X56X127	405X56X127
	Spindle variable speed change	2	2	2	2	2	2	2
	Speed(rpm)	1900-1500	1900-1500	1900-1500	1700-1300	1700-1300	1700-1300	1700-1300
Wheel head	Front and back travel distance(mm)	150	150	150	150	150	150	150
	Swivel angle	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$
Table	Swivel angle	$8^\circ \pm 4'$	$8^\circ \pm 4'$	$8^\circ \pm 4'$	$8^\circ \pm 4'$	$8^\circ \pm 4'$	$8^\circ \pm 4'$	$8^\circ \pm 4'$
	Table span(mm)	150	150	150	170	170	170	170
Workhead	Center	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4
	Speed(rpm)	0~300	0~300	0~300	0~300	0~300	0~300	0~300
	Swivel angle	90°	90°	90°	90°	90°	90°	90°
Tailstock	Center	M.T.3	M.T.3	M.T.3	M.T.4	M.T.4	M.T.4	M.T.4
	Stoke distance(mm)	25	25	25	30	30	30	30
Feed slide	X-axis minimum resolution increment(mm)	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	X-axis rapid feed rate(m/min)	0~6	0~6	0~6	0~6	0~6	0~6	0~6
	Z-axis rapid feed rate	0~4	0~4	0~4	0~4	0~4	0~4	0~4
Motors	Grinding wheel motor(HP)	5	5	5	7.5	7.5	7.5	7.5
	Spindle motor(HP)	1/2	1/2	1/2	1	1	1	1
	X-axis servo motor(KW)	1	1	1	1	1	1	1
	Z-axis motor(HP)	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Table lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8
	Wheel head lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8
	Coolant pump(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Machine Measurement	L X W X H(mm)	2000X1450X1550	2000X1450X1550	2200X1450X1550	2000X1450X1550	2000X1450X1550	2200X1450X1550	2200X1450X1550
	Gross weight(kg)	2550	2750	3050	2800	2900	3050	3250

* All specifications and design are subject to change without notice.



Reaching you... Worldwide

EASY CNC software & Dialogue HMI (Human Machine Interface)

JAGURA EASY CNC Series cylindrical grinding machines are specially designed for OD Step grinding. The **EASY CNC** control system is constructed by DELTA but it employs the exclusive advanced software developed by **JAGURA**.

Unlike the traditional CNC systems, utilizing complicated G and M codes, **JAGURA** Dialogue HMI is easy to both learn and use, thereby saving **JAGURA EASY CNC** users valuable training time as well as money.

The **JAGURA** Dialogue HMI is divided into 4 main sections: Main Menu, Dressing Programs, Grinding Path Programs, and Program Links. Users simply select a dressing pattern and grinding path, enter the processing parameters, and the machine can start to work.

JAGURA Dialogue HMI is the best solution for grinding, especially OD Step grinding. The graphic directory enables the user to divide complicated grinding processes into individual stages. First, one of the pre-loaded grinding programs is selected: OD, OD Step, or End-face grinding.

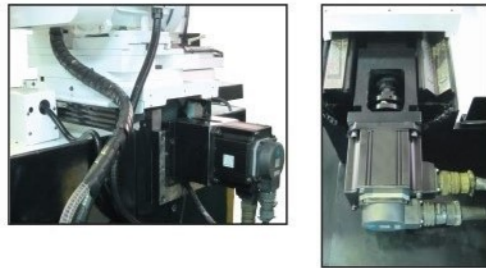
After choosing from the program list, the operator can set up total feed volume, individual cycle feed volume, feed speed, spindle RPM, workhead RPM, and grinding length.

Finally, users can enter one of the pre-loaded dressing programs: OD, OD Step or End-face dressing. After entering the desired dressing program, users can set dressing volume and off-set volume. This function not only reduces time spent adjusting tools, but also reduces the potential for accidental input errors.

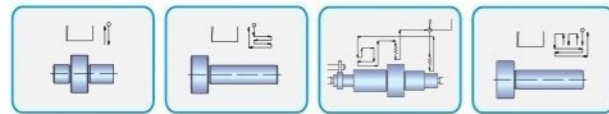
JAGURA Dialogue HMI is your best grinding solution. Since it can be readily integrated with Auto Process gauging, it greatly improves efficiency and assures production of the finest quality parts, while employing the most user friendly operation.

Easy CNC series

This series is specially design for grinding multi-step workpiece. Both X-axis and Z-axis are driven by ball-screw and servo motor. The positioning accuracy is up to $\pm 0.001\text{mm}$. The control system is user-friendly dialog operation interface. Operator just select the required grinding path, set operation parameters and key in required grinding size and then the machine will perform full automatic grinding processes. Operator can easily operate **EASY CNC** series without having to edit G codes and M codes.



OD Grinding Example:



Main menu



Dressing rates



Link cycles



Grinding rates

Easy CNC Series



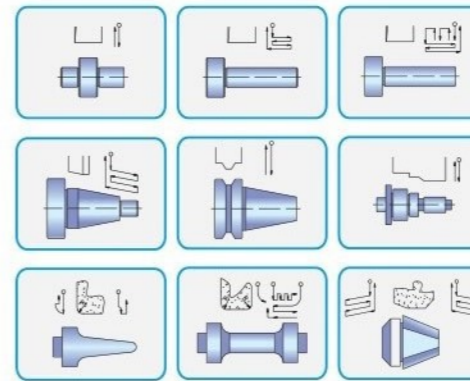
JAG-CG3260-Easy CNC

CNC series

This series is especially design for profile grinding, such as OD taper and circular arc. Both X-axis and Z-axis are driven by ball-screw and servo motor. The positioning accuracy is up to $\pm 0.001\text{mm}$. The control system is user-friendly dialog operation interface. Operator just select the required grinding path, set operation parameters and key in required grinding size and then the machine will perform full automatic grinding process. Operator can easily operate **CNC** series without having to edit G codes and M codes. Furthermore, it can work with various measuring instructions to enhance workpiece quality and production efficiency.



OD Grinding Example:



* All specifications and design are subject to change without notice.



CNC Series



CG45120-CNC

CNC software & Dialogue HMI (Human Machine Interface)

JAGURA CNC Series cylindrical grinding machines are specially designed for profile grinding. The CNC control system is constructed by Mitsubishi but it employs the exclusive advanced software developed by **JAGURA**.

Unlike the traditional CNC systems, utilizing complicated G and M codes, **JAGURA** Dialogue HMI is easy to both learn and use, thereby saving **JAGURA CNC** users valuable training time as well as money.

The **JAGURA** Dialogue HMI is divided into 4 main sections: Main Menu, Dressing Programs, Grinding Path Programs, and Program Links. Users simply select a dressing pattern and grinding path, enter the processing parameters, and the machine can start to work. **JAGURA** Dialogue HMI is the best solution for grinding, especially grinding complicated profiles. The graphic directory enables the user to divide complicated grinding processes into individual stages. First, one of the pre-loaded grinding programs is selected: OD, Taper, Radius, or End-face grinding.

After choosing from the program list, the operator can set up total feed volume, individual cycle feed volume, feed speed, spindle RPM, workhead RPM, and grinding length.

Finally, users can enter one of the pre-loaded dressing programs: OD, Taper, Radius, or End-face profile dressing. After entering the desired dressing program, users can set dressing volume and off-set volume. This function not only reduces time spent adjusting tools, but also reduces the potential for accidental input errors.

JAGURA Dialogue HMI is your best grinding solution. Since it can be readily integrated with most ancillary automation e.g. loaders / unloaders and gauging, it greatly improves efficiency and assures production of the finest quality parts, while employing the most user friendly operation.



Main menu



Dressing rates



Grinding rates



Link cycles

CNC / EASY CNC Series specifications

MODEL /CNC/EASY CNC	CG2535-CNC	CG2550-CNC	CG2575-CNC	CG3240-CNC	CG3250-CNC	CG3260-CNC	CG3275-CNC	CG32100-CNC	CG32120-CNC	CG45100-CNC	CG45120-CNC	CG45150-CNC	
Capacity	Max. swivel over table(mm)	250	250	250	320	320	320	320	320	450	450	450	
	Max. distance between centers(mm)	350	500	750	400	500	600	750	1000	1200	1000	1500	
	Max. external grinding diameter(mm)	250	250	250	320	320	320	320	320	450	450	450	
	Max. load of centers(kg)	80	80	80	120	120	120	120	150	150	220	220	
Grinding Wheel	(OD x width x ID) Wheel size	350x130x101.6/127	350x130x101.6/127	350x130x101.6/127	405x150x127	405x150x127	405x150x127	405x150x127	405x150x127	405x150x127	405x150x127	405x150x127	
	Spindle variable speed change	2	2	2	2	2	2	2	2	1	1	1	
	Speed(rpm)	1900-1500	1900-1500	1900-1500	1900-1500	1700-1300	1700-1300	1700-1300	1700-1300	1700-1300	1400	1400	1400
Wheel head	Front and back travel distance(mm)	150	150	150	150	150	150	250	250	250	250	250	
	Swivel angle	±30°	±30°	±30°	±30°	±30°	±30°	±30°	±30°				
Table	Swivel angle	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	8° ~ -4°	
	Table span(mm)	150	150	150	170	170	170	170	170	240	240	240	
Workhead	Center	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	
	Speed(rpm)	0~500	0~500	0~500	0~300	0~300	0~300	0~300	0~300	0~300	0~300	0~300	
Tailstock	Swivel angle	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	
	Center	M.T.3	M.T.3	M.T.3	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	M.T.4	
Feed slide	Stroke distance(mm)	25	25	25	30	30	30	30	30	30	30	30	
	X-axis minimum resolution increment(mm)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
	X-axis rapid feed rate(m/min)	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	
	Z-axis minimum resolution increment(mm)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Motors	Z-axis rapid feed rate(m/min)	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	0~6	
	Grinding wheel motor(HP)	5	5	5	7.5	7.5	7.5	7.5	10	10	15	15	
	Spindle motor(HP)	1	1	1	1.5	1.5	1.5	1.5	2	2	2	2	
	X-axis servo motor(KW)	1	1	1	1	1	1	1	2	2	2	2	
	Z-axis servo motor(KW)	1.5	1.5	1.5	2	2	2	2	3	3	5	5	
	Table lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	
	Wheel head lubricator motor(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	
	Coolant pump(HP)	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	
	Machine Measurement	L X W X H(mm)	2000x1450x1550	2000x1450x1550	2200x1450x1550	2000x1450x1550	2000x1450x1550	2200x1450x1550	2200x1450x1550	3500x2343x1850	4900x2330x2050	5300x2330x2050	5800x2330x2050
		Gross weight(kg)	2550	2750	3050	2800	2900	3050	3250	5950	6100	7100	7500

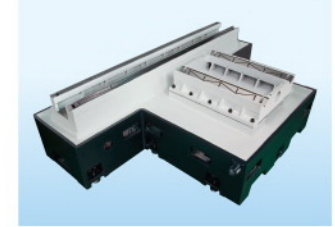
* All specifications and design are subject to change without notice.

CNC series(Angular type)

This series is especially design for profile grinding, such as OD taper and circular arc. Both X-axis and Z-axis are driven by ball-screw and servo motor. The positioning accuracy is up to ±0.001mm. The control system is user-friendly dialog operation interface. Operator just select the required grinding path, set operation parameters and key in required grinding size and then the machine will perform full automatic grinding process. Operator can easily operate CNC series without having to edit G codes and M codes. Furthermore, it can work with various measuring instructions to enhance workpiece quality and production efficiency.

Machine Bed

The machine bed was designed using the most advanced mechanical principles, to minimize the external factors which can adversely impact accuracy. The bed is virtually vibration free. It is constructed of high quality Meehanite cast iron, fully normalized for stability and distortion-free operation. The machine bed and slides are heat treated and precision ground and the guideways was designed with a longer span for optimum work table support.



Longitudinal and Cross Slide

The slideways are configured with a V and a Flat Way. They are hand-scraped and equipped with an automatic lubrication system, which presets the pressure and operation for smoothness and accuracy.

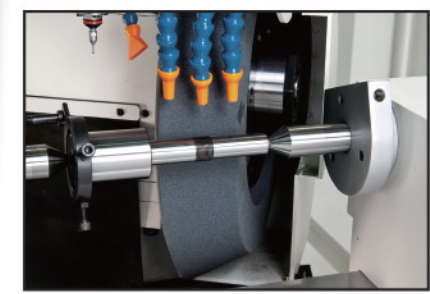


CGA3565-CNC

CNC Series (Angular type)

CNC software & Dialogue HMI (Human Machine Interface)

JAGURA CNC Series cylindrical grinding machines are specially designed for profile grinding. The CNC control system is constructed by Mitsubishi but it employs the exclusive advanced software developed by JAGURA. Unlike the traditional CNC systems, utilizing complicated G and M codes, JAGURA Dialogue HMI is easy to both learn and use, thereby saving JAGURA CNC users valuable training time as well as money. The JAGURA Dialogue HMI is divided into 4 main sections: Main Menu, Dressing Programs, Grinding Path Programs, and Program Links. Users simply select a dressing pattern and grinding path, enter the processing parameters, and the machine can start to work. JAGURA Dialogue HMI is the best solution for grinding, especially grinding complicated profiles. The graphic directory enables the user to divide complicated grinding processes into individual stages. First, one of the pre-loaded grinding programs is selected: OD, Taper, Radius, or End-face grinding. After choosing from the program list, the operator can set up total feed volume, individual cycle feed volume, feed speed, spindle RPM, workhead RPM, and grinding length. Finally, users can enter one of the pre-loaded dressing programs: OD, Taper, Radius, or End-face profile dressing. After entering the desired dressing program, users can set dressing volume and off-set volume. This function not only reduces time spent adjusting tools, but also reduces the potential for accidental input errors. JAGURA Dialogue HMI is your best grinding solution. Since it can be readily integrated with most ancillary automation e.g. loaders / unloaders and gauging, it greatly improves efficiency and assures production of the finest quality parts, while employing the most user friendly operation.



CNC Series(Angular type) specifications

MODEL : CGA	CGA2535-CNC	CGA2550-CNC	CGA3545-CNC	CGA3565-CNC	
Capacity	Max. swivel over table(mm)	250	250	350	
	Max. distance between centers(mm)	350	500	450	
	Max. external grinding diameter(mm)	250	250	350	
	Max. load of centers(kg)	80	80	120	
Grinding Wheel	(OD x width x ID) Wheel size	455x50x152.4	455x50x152.4	510x80x152.4	
	Speed(rpm)	1700	1700	1460	
Wheel head	Front and back travel distance(mm)	200	200	250	
Table	Swivel angle	8° ~ -4°	8° ~ -4°	8° ~ -4°	
	Table span(mm)	150	150	220	
Workhead	Center	M.T.4	M.T.4	M.T.4	
	Speed(rpm)	0~500	0~500	0~300	
Tailstock	Swivel angle	90°	90°	90°	
	Center	M.T.3	M.T.3	M.T.4	
Feed slide	Stroke distance(mm)	25	25	30	
	X-axis minimum resolution increment(mm)	0.001	0.001	0.001	
	X-axis rapid feed rate(m/min)	0~6	0~6	6	
	Z-axis minimum resolution increment(mm)	0.001	0.001	0.001	
Motors	Z-axis rapid feed rate	0~6	0~6	6	
	Grinding wheel motor(HP)	7.5	7.5	15	
	Spindle motor(HP)	1	1	2	
	X-axis servo motor(KW)	1	1	3.5	
	Z-axis servo motor(KW)	1.5	1.5	3.5	
	Table lubricator motor(HP)	1/8	1/8	1/8	
	Wheel head lubricator motor(HP)	1/8	1/8	1/8	
	Coolant pump(HP)	1/8	1/8	1/4	
	Machine Measurement	L X W X H(mm)	3300x2000x1900	3300x2000x1900	3436x2000x1810
		Gross weight(kg)	4100	4500	7500

* All specifications and design are subject to change without notice.



Main menu Dressing rates



Grinding rates Link cycles

OD&End Face grinding example:



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Optional Attachments :

- | | | |
|--|-------------------------------------|--|
| 1. Optical meter/
Linear scale feedback | 9. Magnetic Filter | 17. Touch Probe Gauge
(It's standard attachment for angular type) |
| 2. 6"3-JAW Chuck | 10. Paper Filter | 18. Auto In-Process Gauge |
| 3. Internal Attachment | 11. Magnetic & Paper Filter | 19. Crash Control Device |
| 4. Roller Workhead | 12. Angle Dresser | 20. Rotary dresser |
| 5. Adjustable 3-Point Strady Rest | 13. Radius Dresser | 21. Inverter |
| 6. Adjustable 2-Point Strady Rest | 14. internal&External Wheel Dresser | 22. Fully enclosed splash guard
(It's standard attachment for angular type) |
| 7. Workpiece Holder | 15. SineBar Attachment | 23. Oil mist separator |
| 8. Wheel Balancing Stand&Arbor | 16. Oil cooler | 24. Wheel balancing system |



Standard Accessories :

1. Wheel flange :1 set
2. Wheel flange removing nut:1 piece
3. Table mounting dresser:1 set
4. Tungsten carbide tipped center:2 pieces
5. Work driving dog set(small,medium, large):1 set
6. Tool box:1 set
7. Coolant system



CNC Micro Cylindrical grinding machine



CG175-CNC

Model	JAG-CG175-CNC
Swivel over the table	120mm
Max. distance between centers	175mm
Wheel size (OD x width x ID)	200x19x31.75
Minimum resolution increment	0.001mm
Workhead speed	0-360rpm
Swivel angle	± 6°
Rapid feed rate	X axis 0-6 m/min Z axis 0-6 m/min
Spindle speed	0-3440rpm
Main Motor	Workhead 60W
	Spindle 1.5HP
	X axis 500w
	Z axis 500w
Dimensions(LxWxH)	1800x1883x1865mm
Weight	1200kgs

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Standard Accessories :

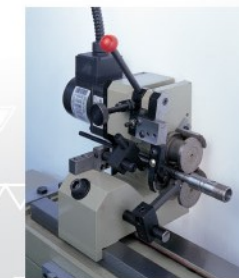
1. Wheel flange :1 set
2. Wheel balancing arbor:1 set
3. Wheel flange removing nut:1 piece
4. Table mounting dresser:1 set
5. Tungsten carbide tipped center:2 pieces
6. Work driving dog set(small,medium, large):1 set
7. Tool box:1 set
8. Coolant system

Optional Attachments :

1. Wheel balance stand
2. Magnetic coolant separator
3. Linear scale feedback
4. 3" 3Jaw Chuck workhead



5. Roller-type workhead



6. Touch probe gauge
7. Auto in-process gauge
8. Crash control device

Easy CNC Micro Cylindrical grinding machine



CG175-CNC(Easy)

Model	JAG-CG175-CNC(Easy)
Swivel over the table	120mm
Max. distance between centers	175mm
Wheel size (OD x width x ID)	200x19x31.75
Minimum resolution increment	0.001mm
Workhead speed	0-360rpm
Swivel angle	± 6°
Rapid feed rate	X axis 0-6 m/min Z axis 0-6 m/min
Spindle speed	0-3440rpm
Main Motor	Workhead 60W
	Spindle 1.5HP
	X axis 500w
	Z axis 500w
Dimensions(LxWxH)	1800x1883x1865mm
Weight	1200kgs

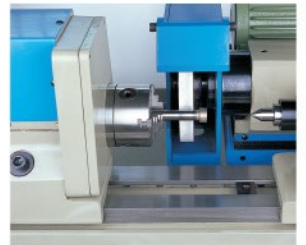
* All specifications and design are subject to change without notice.

Standard Accessories :

1. Wheel flange :1 set
2. Wheel balancing arbor:1 set
3. Wheel flange removing nut:1 piece
4. Table mounting dresser:1 set
5. Tungsten carbide tipped center:2 pieces
6. Work driving dog set(small,medium, large):1 set
7. Tool box:1 set
8. Coolant system

Optional Attachments :

1. Wheel balance stand
2. Magnetic coolant separator
3. Linear scale feedback
4. 3" 3Jaw Chuck workhead



5. Roller-type workhead



6. Touch probe gauge
7. Auto in-process gauge
8. Crash control device

