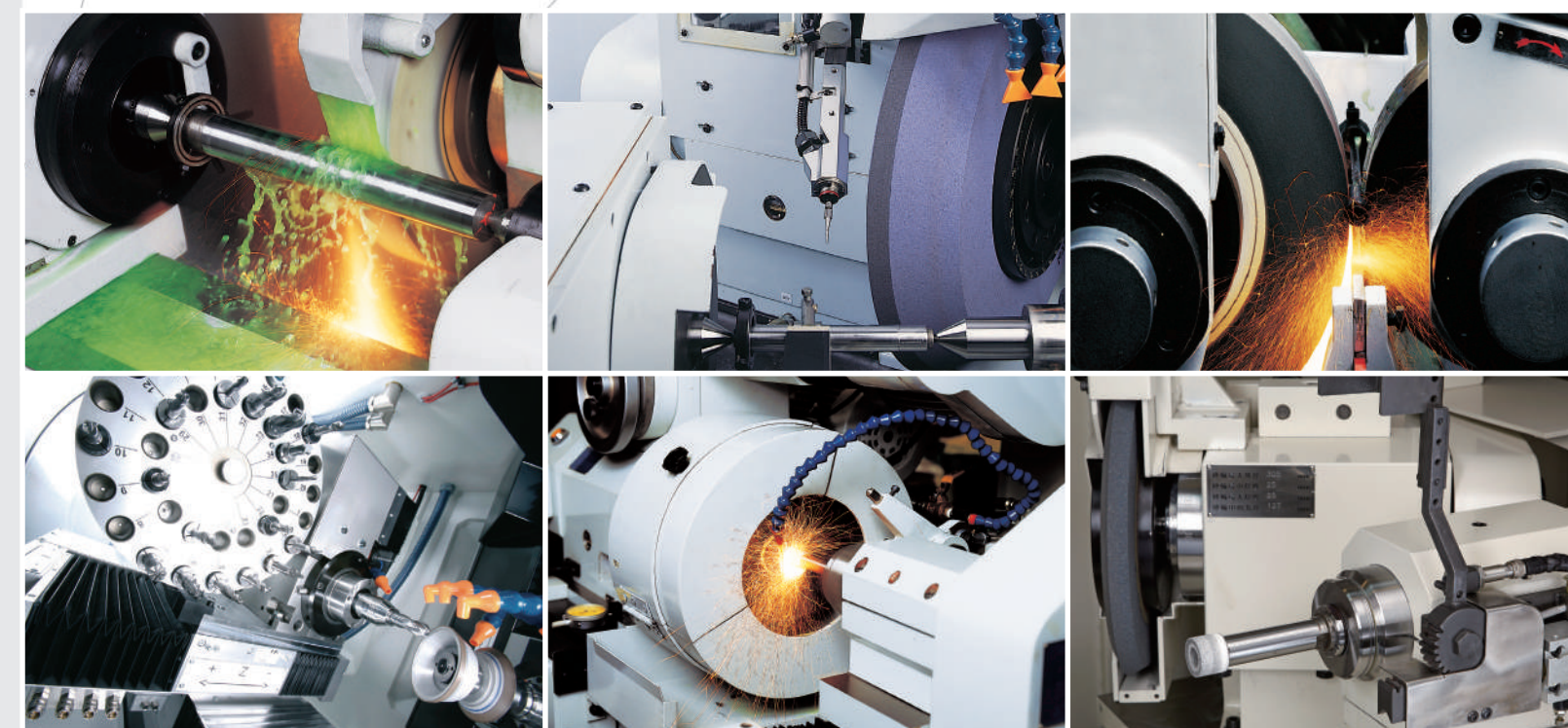




Internal Grinding Machines

CNC Series
NC Series
E Series(Economical)

CNC 5-Axis Tool Grinding Machines

CNC Series

ID/OD Twin-Spindle Grinding Machines

CNC Series

Double-Feed Centerless Grinding Machine

CNC Series

High-Speed Centerless Grinding Machines

CNC Series
B Series

Angular Cylindrical Grinding Machines

CNC Series
CNC Series(Heavy-duty)

Centerless Grinding Machines

CNC Series NC Series
H Series B Series
S Series E Series(Economical)

Universal Cylindrical Grinding Machines

CNC Series
NC Series
P Series
S Series

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JUN, 2017

GRINDING MACHINES LINE-UP

- ID/OD Twin-Spindle Grinding Machine
- Internal Grinding Machine
- Centerless Grinding Machine
- Angular Cylindrical Grinding Machine
- Universal Cylindrical Grinding Machine
- Tool Grinding Machine



PARAGON Machinery Co., Ltd., founded in 1968, always keeps with the concepts of optimism, entrepreneurship, good faith and responsibility. We exceed with our innovations and progresses, applying sophisticated designs and products with outstanding techniques to provide high-quality and high-precision grinders to meet our client's needs in various aspects of the grinding work field.

During the years of our hard-working progress and growth along with the pulse of Taiwan's economic developments, starting by manufacturing small-sized centerless grinding machines, have now evolved to a company specializing in researching, developing and making of all aspects of CNC and automatic grinders; our product includes centerless grinders, cylindrical grinders, internal grinders, cam grinders and composite grinders. Under the brand of PARAGON, we sell our products from Taiwan to the rest of the world through our omnipresent service network. With a staff consisting of more than one hundred quality elite members, PARAGON endeavors to provide the clients with better products and services every moment.

UNPARALLELED QUALITY ASSURANCE AND CONTROL

PARAGON's systematic development, production and assembly are carried out in a process oriented manner and in strict compliance with ISO 9001 directives. Our Q.C. Staff conducts rigorous quality control throughout the entire manufacturing process before shipment. Our quality control process includes: a) Incoming Materials Inspection; b) Geometric Accuracy Inspection; c) Unloaded Spindle Test; d) Grinding Test.

EXAMPLE OF WORKPIECES



- Twin spindle configuration for internal and cylindrical grinding
- Guaranteed accuracy of circularity and concentricity
- Safe environment with fully enclosed splash guard
- Eliminates repetitive chucking error of workpiece
- Multi-face grinding accomplished in one cycle

RTG-100CNC



MODEL
RTG-100CNC

SPECIFICATIONS	UNIT	RTG-100CNC
CAPACITY		
Max. grinding diameter	(mm)	φ 320
Outer Grinding wheel	(mm)	φ 305×25×127
Max length of outer grinding	(mm)	70
Range of inner diameter	(mm)	6~100
Max.depth of grinding	(mm)	100
Max.clamping length	(mm)	150
Distance from wheel spindle to floor	(mm)	1,150
CONTROL SYSTEM		
Controller		FANUC/SIEMENS/MITSUBISHI
FEED SLIDE		
Y, Z-axis travel	(mm)	400+250(Manual)
Y, Z-axis rapid feed rate	(m/min)	18
Y, Z-axis minimum resolution increment	(mm)	0.0001
WORKHEAD		
X-axis rapid feed rate	(m/min)	10
X-axis minimum increment	(mm)	0.001
X-axis minimum resolution increment	(mm)	0.0001
Swivel angle(manual)	(deg)	+15 ~ -5
Spindle speed	(r.p.m.)	0~1,000
OTHERS		
Capability of hydraulic oil tank	(l)	40
Capability of Coolant tank	(l)	90
Machine dimensions (WxDxH)	(mm)	2,600×2,000×2,020
Machine weight	(kg)	5,000

*Design and specifications are subject to change without prior notice

INTERNAL GRINDING MACHINE

- Flexible workhead for equipping various chuck applications
- Engineered with high reliability and convenient operation
- CNC controlled model delivers increased productivity
- Designed according to diversification needs

RIG-150CNC



MODELS
RIG-150
RIG-150NC
RIG-150CNC

SPECIFICATIONS	UNIT	RIG-150CNC	RIG-150NC	RIG-150
CAPACITY				
Grinding range(dia.)	(mm)	6~150	6~150	6~150
Grinding depth(max.)	(mm)	150	150	150
Swing over table	(mm)	520	520	520
Swing in chuck guard	(mm)	320	320	320
Max. table traverse	(mm)	400	530	530
CONTROL SYSTEM				
Controller		FANUC / SIEMENS / MITSUBISHI	Hi-Tech	-
WORKHEAD				
Spindle speed	(rpm)	5-800	5-800	5-800
Swiveling angle	(deg)	+13 ~ -5	+13 ~ -5	+13 ~ -5
WHEELHEAD				
X-axis rapid movement	(m/min)	6	-	-
Max. table speed Z-axis	(m/min)	20	≒9	≒9
Z-axis minimum increment	(mm)	0.001	10 ~14	10 ~14
X-axis minimum increment	(mm)	0.001	0.001	0.001
Y-axis minimum increment	(mm)	-	0.001	-
Height from wheel spindle to floor	(mm)	1,290	1,180	1,180
OTHERS				
Machine dimension (WxDxH)	(mm)	3,145X2,690X1,950	2,465X2,420X1,830	2,645X1,860X1,630
Machine weight	(kg)	3,000	2,400	2,200

*Design and specifications are subject to change without prior notice.

HIGH-SPEED CENTERLESS GRINDING MACHINE

- Excellent for mass production processing
- Guaranteed high circularity accuracy
- Extra rigid machine base and extra large grinding wheel
- Time-saving and high efficiency in cycle and setup

RHC-650CNC



MODELS
CNC Series
RHC-620CNC
RHC-630CNC
RHC-650CNC
B Series
RHC-620B

SPECIFICATIONS	UNIT	RHC-620CNC / B	RHC-630CNC	RHC-650CNC
Grinding range (dia.)	mm	10-100	4-80(80-200 optional)	4-80(80-200 optional)
G.W. size (dia. x width x hole)	mm	610 x 205 x 304.8	610 x 305 x 304.8	610 x 500 x 304.8
R.W. size (dia. x width x hole)	mm	305 x 205 x 177.8	330 x 305 x 203.2	330 x 500 x 203.2
G.W. speed	m/min	3,000	3,000	3,000
R.W. speed	rpm	15~300	10~200	10~200
R.W. swivel angle	deg	±3°	±3°	±3°
R.W. tilt angle	deg	±3°	±3°	±3°
G.W. motor	Kw	15(11.3)	22(37.5 optional)	56.3
R.W. servo motor	Kw	3	3	4.4
R.W. lower slide servo motor	Kw	1.4	1.4	1.4
G.W. dressing servo motor	Kw	0.75	0.75	0.75
Hydraulic pump motor	Kw	0.75	0.75	0.75
Coolant pump motor	Kw	0.75	0.75	0.75
Machine dimension(WxDxH)	mm	3,200 x 1,900 x 1,700	3,820 x 2,060 x 2,550	4,120 x 3,080 x 2,350
Machine weight	kg	5,200	7,500 (9,000)	9,500

*Design and specifications are subject to change without prior notice.

***B and CNC series** : The R.W. spindle uses cylindrical roller bearings instead of alloy bearings and is driven by servo motor providing infinite variable speed.

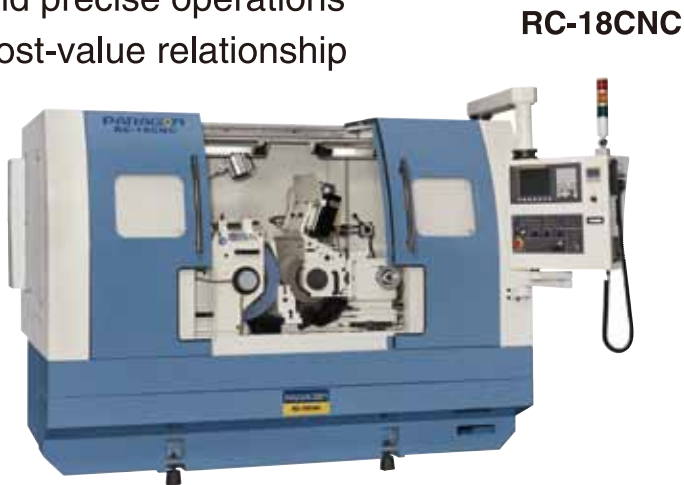
***RHC-630 CNC** : The G.W. spindle uses angular contact ball bearings and cylindrical roller bearings.

***G.W.**: Grinding Wheel; ***R.W.**: Regulating Wheel

CNC CENTERLESS GRINDING MACHINE

- Efficient CNC controller with powerful functions
- Guaranteed high circularity accuracy
- Carefully engineered for rapid and precise operations
- Greater performance and best cost-value relationship

MODELS
RC-12CNC
RC-18CNC
RC-1812CNC
RC-20CNC



SPECIFICATIONS	UNIT	RC-12CNC/NC	RC-18CNC/NC	RC-1812CNC	RC-20CNC	RC-12	RC-16B	RC-18	RC-1812	RC-20
Grinding range (dia.)	mm	1-30	2-50	2-50	2-50	1-30	2-40	2-50	2-50	2-50
G.W. size (dia. x width x hole)	mm	305x150x120	455x205x228.6	455x305x228.6	510x205x304.8	305x150x120	405x205x203.2	455x205x228.6	455x305x228.6	510x205x304.8
R.W. size (dia. x width x hole)	mm	230x150x127	280x205x139.7	305x305x177.8	305x205x177.8	205x150x90 230x150x127	280x205x139.7	225x205x111.2 280x205x139.7	255x305x111.2 305x305x177.8	305x205x127 305x205x177.8
G.W. speed (Peripheral Speed)	m/min	2,000	2,000	2,000	2,000	2,000/2,400(H Series)	2,000	2,000/2,700(H Series)	2,000	2,000/2,700(H Series)
R.W. speed	rpm	10-300	10-300	10-300	10-300	21~300 (7 steps) / 10~300	10~300	13~308 (10 steps) / 10~300	13~308 (10 steps) / 10~300	13~308 (10 steps) / 10~300
Upper slide feed graduation	mm	-	-	-	-	3.5 (Rev.) 0.05 (Gra)	3.5 (Rev.) 0.05 (Gra)	3.5 (Rev.) 0.05 (Gra)	3.5 (Rev.) 0.05 (Gra)	3.5 (Rev.) 0.05 (Gra)
Upper slide micro feed graduation	mm	-	-	-	-	0.1 (Rev.) 0.001 (Gra)	0.1 (Rev.) 0.001 (Gra)	0.1 (Rev.) 0.001 (Gra)	0.1 (Rev.) 0.001 (Gra)	0.1 (Rev.) 0.001 (Gra)
Lower slide feed graduation	mm	-	-	-	-	10 (Rev.) 0.05 (Gra)	10 (Rev.) 0.05 (Gra)	10 (Rev.) 0.05 (Gra)	10 (Rev.) 0.05 (Gra)	10 (Rev.) 0.05 (Gra)
Lower slide micro feed graduation	mm	-	-	-	-	0.2 (Rev.) 0.001 (Gra)	0.2 (Rev.) 0.001 (Gra)	0.2 (Rev.) 0.001 (Gra)	0.2 (Rev.) 0.001 (Gra)	0.2 (Rev.) 0.001 (Gra)
Dressing device graduation	mm	-	-	-	-	1.25 (Rev.) 0.01 (Gra)	1.75 (Rev.) 0.01 (Gra)	2 (Rev.) 0.01 (Gra)	2 (Rev.) 0.01 (Gra)	2 (Rev.) 0.01 (Gra)
R.W. swivel / tilt angle	deg	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°	±5° / ±5°
X / Z / Y-axis servo motor	kw	0.75 / 0.75 / 1.6 / 2.0(NC)	0.75 / 0.75 / 4.0/ 3.0(NC)	0.75 / 0.75 / 4.0	0.75 / 0.75 / 4.0	- / - / -	- / - / -	- / - / -	- / - / -	- / - / -
G.W. motor	HP	7.5	15	20	20	7.5	10	15	20	20
R.W. motor (servo motor)	kw	1.3	1.8	2.9	2.9	0.75 / 1.30	1.50 / 1.80	1.50 / 1.80	1.50 / 2.90	1.50 / 2.90
Hydraulic pump motor	HP	1	1	1	1	1	1	1	1	1
Coolant pump motor	HP	1/8	1/4	1/4	1/4	1/8	1/4	1/4	1/4	1/4
Machine dimension (W×D×H)	mm	3,432 x 2,870 x 1,997	3,880 x 3,265 x 2,040	3,200 x 2,830 x 1,730	3,250 x 3,010 x 1,730	1,900 x 1,550 x 1,420	2,000 x 1,590 x 1,450	2,300 x 1,800 x 1,600	2,300 x 2,100 x 1,600	2,500 x 2,150 x 1,600
Machine weight	kg	2,100	4,200	4,500	4,800	1,700	2,400	3,300	3,500	3,900

*Design and specifications are subject to change without prior notice.

Model	Grinding wheel spindle bearing	Regulating wheel spindle bearing
CNC	Hydrostatic / Hydrodynamic bearings	Ball & roller bearings

Note: In the ball & roller bearing series, the regulating wheel has a precise servo motor which provides infinite variable speed change from 10-300 rpm.
The servo motor is driven directly by worm and worm gear.

CENTERLESS GRINDING MACHINE

MODELS

Economical

RC-12
RC-18
RC-1812
RC-20

B Series

RC-12B
RC-16B
RC-18B
RC-1812B
RC-20B

NC Series

RC-12NC
RC-18NC

H Series

RC-12H
RC-18H
RC-20H

S Series

RC-12S
RC-18S

RC-18NC



*Design and specifications are subject to change without prior notice.

Model	Grinding wheel spindle bearing	Regulating wheel spindle bearing
NC	Hydrodynamic bearings	Hydrodynamic / Ball & roller bearings
H Series	Hydrostatic bearings	Ball & roller bearings
B Series	Hydrodynamic bearings	Ball & roller bearings
Economical / S Series	Hydrodynamic bearings	Hydrodynamic bearings

DOUBLE-FEED CENTERLESS GRINDING MACHINE

- Great span of guideways and wide surface, accurate hand-scraping with class C1 ballscrew.
- Double feed from both grinding wheel slide & regulating wheel slide, and rapid adjustment of work rest height.
- Long bar grinding and large components are applicable to save tuning time.
- Grinding diameter ranges from $\varnothing 3$ to $\varnothing 250$.

RDC-20CNC



SPECIFICATIONS	UNIT	RDC-20CNC
CAPACITY		
Grinding range (diameter)	mm	3~250
CONTROL SYSTEM		
Controller	set	FANUC/SIEMENS/MITSUBISHI
GRINDING WHEELS		
Dimensions	mm	$\varnothing 510 \times 205(255\text{op}) \times \varnothing 304.8$
Grinding wheel speed	m/min	2000
REGULATING WHEEL		
Dimensions	mm	$\varnothing 3055(255\text{op}) \times \varnothing 177.8$
Regulating wheel speed	rpm	10-300
Swivel angle	deg	$\pm 5^\circ$
Tilt angle	deg	$\pm 5^\circ$
DRIVEN MOTOR		
Grinding wheel motor	HP	40
Hydraulic pump	HP	1
Coolant pump motor	HP	1/4
Regulating wheel servo motor	kw	2.9
Grinding wheel feed motor	kw	4
Regulating wheel feed motor	kw	4
Grinding wheel dressing traverse motor	kw	0.75
Grinding wheel dressing feed motor	kw	0.75
OTHERS		
Machine dimensions (WxDxH)	mm	5,740x4,245x2,000
Machine weight	kg	5,100

*Design and specifications are subject to change without prior notice

CNC ANGULAR CYLINDRICAL GRINDING MACHINE

- Wheelhead spindle with hydrostatic-hydrodynamic hybrid bearings
- Suitable for long, multi-steps and profile grinding
- Efficient CNC controller with powerful functions
- Engineered for rapid and precise operations

GA-3535CNC



GA-2020CNC



MODELS
GA-2020CNC
GA-3535CNC
GA-35100CNC

SPECIFICATIONS	UNIT	GA-2020CNC	GA-3535CNC	GA-35100CNC
CAPACITY				
Swing over table	(mm)	200	350	350
Distance between centers	(mm)	200	350	1,000
Max. grinding diameter	(mm)	φ 160	φ 320	ø 320
Max. grinding wheel dimensions	(mm)	φ 355x50x127	φ 510x80x203.2	ø 510X80X203.2
Max. load held between centers	(kg)	30	150	150
Max. grinding wheel peripheral speed	(m/s)	33(45)	45	45
CONTROL SYSTEM				
Controller	FANUC / SIEMENS / MITSUBISHI			
FEED SLIDE				
X-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001
X-axis rapid traverse speed	(m/min)	6	6	6
Z-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001
Z-axis max. traverse speed	(m/min)	8	8	8
Z-axis manual swivel	(deg.)	-0.5~7.5	-0.5~7.5	-0.5~ +5
WORKHEAD				
Spindle speed	(r.p.m.)	5~750	5~750	5~750
Center		M.T.3	M.T.4	M.T.4
TAILSTOCK				
Hydraulic sleeve retraction	(mm)	25	35	35
Center		M.T.3	M.T.4	M.T.4
OTHERS				
Machine dimension (WxDxH)	(mm)	1,800×2,300×2,160	2,975×2,000×2,260	5,360X3,165X2,260
Machine weight	(kg)	2,700	4,300	4,900

*Design and specifications are subject to change without prior notice

CNC CYLINDRICAL GRINDING MACHINE (HEAVY-DUTY)

- Extra rigid machine base and extra large grinding wheel
- Time-saving and high efficiency in cycle and setup
- Safe environment with fully enclosed splash guard
- Excellent for mass production processing

Angular
MODELS

GAH-3540CNC
GAH-3580CNC
GAH-35100CNC
GAH-35150CNC

Plunge
MODELS

GUH-3540CNC
GUH-3580CNC
GUH-35100CNC
GUH-35150CNC

GAH-35150CNC



SPECIFICATIONS	UNIT	3540CNC	3580CNC	35100CNC	35150CNC
CAPACITY					
Swing over table	(mm)	350	350	350	350
Distance between centers	(mm)	400	800	1,000	1,500
Max. grinding diameter	(mm)	φ 320	φ 320	φ 320	φ 320
Max. grinding wheel dimensions	(mm)	φ 610x160x203.2 (GAH) φ 610x100x203.2(GUH)	φ 610x160x203.2 (GAH) φ 610x100x203.2(GUH)	φ 610x160x203.2 (GAH) φ 610x100x203.2(GUH)	φ 610x160x203.2 (GAH) φ 610x115x203.2(GUH)
Max. load held between centers	(kg)	150	150	150	150
Max. grinding wheel peripheral speed	(m/s)	45(60 Optional)	45(60 Optional)	45(60 Optional)	45(60 Optional)
CONTROL SYSTEM					
Controller	FANUC / SIEMENS / MITSUBISHI				
FEED SLIDE					
X-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001	0.0001
X-axis rapid traverse speed	(m/min)	6	6	6	10
Z-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001	0.0001
Z-axis max. traverse speed	(m/min)	8	8	8	12
Z-axis manual swivel	(deg.)	-0.5~5	-0.5~5	-0.5~5	-0.5~4.5
WORKHEAD					
Spindle speed	(r.p.m.)	5~750	5~750	5~750	5~750
Center		M.T.4	M.T.4	M.T.4	M.T.4
TAILSTOCK					
Hydraulic sleeve retraction	(mm)	35	35	35	35
Center		M.T.4	M.T.4	M.T.5	M.T.5
OTHERS					
Machine dimension (WxDxH)	(mm)	3,030×2,000×2,260	4,040×2,000×2,260	5,364×3,165×2,260	5,040×2,000×2,260
Machine weight	(kg)	6,600	7,000	7,200	8,500

CNC UNIVERSAL CYLINDRICAL GRINDING MACHINE

- Optional internal grinding attachment for more flexibility¹
- Greater performance and best cost-value relationship
- Efficient CNC controller with powerful functions
- Easy operation for greater productivity

GU-3250CNC



MODELS

GU-2020CNC
GU-3250CNC
GU-32120CNC

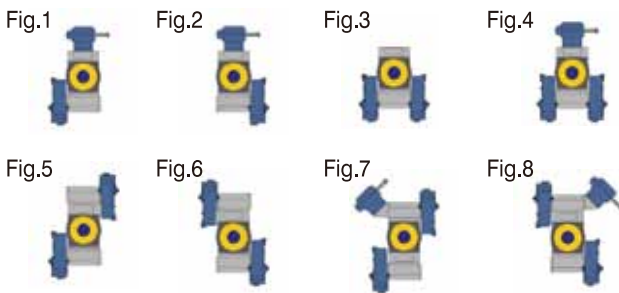
SPECIFICATIONS	UNIT	GU-2020CNC	GU-3250CNC	GU-32120CNC
CAPACITY				
Swing over table	(mm)	200	320	320
Distance between centers	(mm)	200	500	1,200
Max. grinding diameter	(mm)	φ 160	φ 280	ø 280
Max. grinding wheel dimension	(mm)	φ 355 x 50 x 127	φ 405 x 56 x 127	ø 405 x 56 x 127
Max. load held between centers	(kg)	30	150	150
Max. grinding wheel peripheral speed	(m/s)	33(45)	45	45
CONTROL SYSTEM				
Controller	FANUC / SIEMENS / MITSUBISHI			
FEED SLIDE				
X-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001
X-axis rapid traverse speed	(m/min)	5	6	6
Z-axis min. resolution increment	(mm)	0.0001	0.0001	0.0001
Z-axis max. traverse speed	(m/min)	6	8	8
Z-axis manual swivel	(deg.)	-0.5~+6	0~+7.5	-0.5~ +5
WORKHEAD				
Spindle speed	(r.p.m.)	5~750	5~750	5~750
Center		M.T.3	M.T.4	M.T.4
TAILSTOCK				
Hydraulic sleeve retraction	(mm)	25	35	35
Center		M.T.3	M.T.4	M.T.4
OTHERS				
Machine dimension (WxDxH)	(mm)	1,800×2,300×2,160	3,000×2,000×2,260	5,550 x 3,600 x 2,260
Machine weight	(kg)	2,500	3,500	6,740

*Design and specifications are subject to change without prior notice.

1. Not available for GU-2020CNC.

CNC UNIVERSAL CYLINDRICAL GRINDING MACHINE
SuperB

- No backlash, high speed and high precision rapid rotary positioning
- Allow highly rigid and precise machining performance
- Heavy-duty cutting ability and highly efficient grinding capability
- Enable compound grinding and multiple machining procedures with one clamping



MODEL
SuperB GU-35/GU-32

SPECIFICATIONS (For Fig.1, Fig.2)	UNIT	SuperB GU-35100CNC
CAPACITY		
Swing over table	mm	350
Distance between centers	mm	1000
Max. outer grinding wheel dimension	mm	Ø510 / Ø405
Max. load held between centers	kg	100
Max. outer grinding wheel peripheral speed	m/s	45
High frequency ID motor-spindle	rpm	40000(Opt.)
FEED SLIDE		
Max. travel of X-axis	mm	320
Speed (X-axis)	mm/min	6000
Resolution (X-axis)	mm	0.0001
Speed (Z-axis)	mm/min	8000
Resolution (Z-axis)	mm	0.0001
WORKHEAD		
Spindle speed	rpm	5~750
Center		M.T.4 (M.T.5 Opt.)
TAILSTOCK		
Hydraulic sleeve retraction	mm	35
Center		M.T.4
DRIVEN MOTORS		
Outer wheel spindle	kw	15
X-axis (servo motor)	kw	1.2
Z-axis (servo motor)	kw	1.2
B-axis (servo motor)	kw	10.5
Workhead	kw	1.2
B-AXIS (WHEELHEAD)		
Resolution	deg	0.00005
Positioning accuracy	sec.	<1
Repeatability accuracy for positioning	sec.	<1
Rotary speed (180°)	sec.	<3
Swiveling range	deg	-45° ~ +225°

*Design and specifications are subject to change without prior notice.

UNIVERSAL CYLINDRICAL GRINDING MACHINE

- MODELS**
P Series(Hydraulic Auto Feed)
GU-3250P
GU-3275P
GU-32100P
S Series(Hand Feed)
GU-3250S
GU-3275S
GU-32100S
NC Series
GU-3250NC
GU-3275NC
GU-32100NC

GU-3250NC



SPECIFICATIONS	UNIT	GU-3250	GU-3275	GU-32100
CAPACITY				
Swing over table	(mm)	320	320	320
Distance between centers	(mm)	500	750	1,000
Max. grinding dia.	(mm)	φ 280	φ 280	φ 280
Max. grinding wheel dimension	(mm)	φ 405 x 56 x 127	φ 405 x 56 x 127	φ 405 x 56 x 127
Max. load held between centers	(kg)	150	150	150
Max. grinding wheel peripheral speed	(m/s)	33	33	33
CONTROL SYSTEM (For NC series only)				
NC Controller		Hi-Tech	Hi-Tech	Hi-Tech
FEED SLIDE				
X-axis min. resolution increment	(mm)	0.001	0.001	0.001
X-axis rapid traverse speed	(m/min)	6	6	6
Z-axis min. resolution increment	(mm)	±0.01	±0.01	±0.01
Z-axis max. traverse speed	(m/min)	4	4	4
Z-axis manual swivel	(deg.)	0~+7.5	0~+5	0~+5
WORKHEAD				
Spindle speed	(r.p.m.)	5~750	5~750	5~750
Center		M.T.4	M.T.4	M.T.4
TAILSTOCK				
Hydraulic sleeve retraction	(mm)	35	35	35
Center		M.T.4	M.T.4	M.T.4
OTHERS				
Machine dimension (WxDxH)	(mm)	2,810×2,100×1,850	3,665×2,270×1,850	4,630×2,270×1,850
Machine weight	(kg)	2,800	3,700	3,900

*Design and specifications are subject to change without prior notice.

*Optional internal grinding attachment for all series.

TOOL GRINDING MACHINE

- For regrinding and manufacturing of high-precision tools and components.
- Excellent vibration damping of mineral casting materials permit high-precision composite structures with long-term stability.
- Innovative 5 axis technology for tool grinding.
- Uses the worldwide leading user software -MTS / NUMROTO

MODELS

GT-520

GT-520G

GT-530



SPECIFICATION	UNIT	GT-520	GT-520G
CAPACITY			
Complete machining max. tool length	(mm)	210	210
Complete machining max. diameter	(mm)	Ø120	Ø120
MEASUREMENT SYSTEM			
Standard (tool measurement)		3D measurement probe (Marposs)	
Optional (grinding wheel measurement)		3D measurement probe (Marposs)	
G.W. SPINDLE			
Wheel spindle (direct-drive) (IP65)	(kw)	7.5	12
Wheel spindle regulator (Forward, reverse rotation)	(rpm)	0~9,000	0~10,000
GRINDING WHEELS			
Max. diameter	(mm)	Ø125	Ø125
Grinding wheel per clamping arbour		1~4 wheel	1~4 wheel
GRINDING WHEEL HOLDER			
Standard (HSK50)		Pneumatic auto. chucking	
B-AXIS / STANDARD (DIRECT-DRIVE)			
Speed	degree/sec.	112°	112°
WORKPIECE HOLDERS			
Standard		Mechanical manual	
Optional (grinding wheel measurement)		Pneumatic automatic	
C-AXIS			
Standard		Worm gears (SK50)	Direct-Drive (SK40)
Optional		Direct-Drive (SK40)	-
Wheel speed regulator	(rpm)	65/2000 (opt.)	2000
CONTROLLER			
CNC controller		Rexroth MTX micro / NUM-Flexium	
AXIS TRAVEL			
Longitudinal (X-Axis)	(mm)	310	310
Lateral (Y-Axis)	(mm)	220	220
Vertical (Z-Axis)	(mm)	190	190
Resolution (X.Y.Z-Axes)	(mm)	0.0003	0.0001
Speed (X.Y.Z-Axes)	(m/min)	15	15
Resolution (B-Axis)	degree	0.0001°	0.0001°
Resolution (C-Axis)	degree	0.0003°/0.0001°(opt.)	0.0001°
MACHINE DIMENSIONS			
Depth / Width / Height	(mm)	2,165 x 1,440 x 1,860	2,270 x 1,440 x 1,910
Machine weight	(kg)	2,800	3,900

*Design and specifications are subject to change without prior notice

TOOL GRINDING MACHINE

- Workpiece Spindle Direct-Drive Motor
- Polymer Casting Machine Base
- Complicated geometric machining operations can be finished in one clamp.



SPECIFICATION	UNIT	GT-530
CAPACITY		
Complete machining max. tool length	(mm)	300
Complete machining max. diameter	(mm)	Ø150
MEASUREMENT SYSTEM		
Standard (tool measurement)		3D measurement probe (Marposs)
Optional (grinding wheel measurement)		3D measurement probe (Marposs)
G.W. SPINDLE		
Wheel spindle (direct-drive) (IP65)	(kw)	12
Wheel spindle regulator (Forward, reverse rotation)	(rpm)	0~10,000
GRINDING WHEELS		
Max. diameter	(mm)	Ø125
Grinding wheel per clamping arbour		1~4 wheel
GRINDING WHEEL HOLDER		
Standard (HSK50)		Pneumatic auto. chucking
B-AXIS / STANDARD (DIRECT DRIVE)		
Speed	degree/sec.	112°
WORKPIECE HOLDERS		
Standard		Mechanical manual
Optional (grinding wheel measurement)		Pneumatic automatic
C-AXIS		
Standard		Direct-Drive (SK50)
Optional		-
Wheel speed regulator	(rpm)	1000
CONTROLLER		
CNC controller		Rexroth MTX micro / NUM-Flexium
AXIS TRAVEL		
Longitudinal (X-Axis)	(mm)	350/420(opt.)
Lateral (Y-Axis)	(mm)	230
Vertical (Z-Axis)	(mm)	230
Resolution (X.Y.Z-Axes)	(mm)	0.0003
Speed (X.Y.Z-Axes)	(m/min)	15
Resolution (B-Axis)	degree	0.0001°
Resolution (C-Axis)	degree	0.0001°
MACHINE DIMENSIONS		
Depth / Width / Height	(mm)	3,000 x 2,000 x 2,200
Machine weight	(kg)	4,500

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