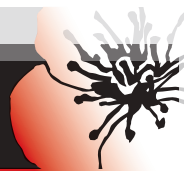




Economic series



Economic servo series



**PC-12 / 14 / 16 / 18 / 1810**

Standard grinding range ( dia. )	$\phi 1 \sim 40 \text{ mm} / \phi 1 \sim 80 \text{ mm}$
Grinding wheel ( O.D. x width )	$\phi 305 \sim 455 \times 150 \sim 255 \text{ mm}$
Grinding wheel speed	2000 m/min
Regulating wheel ( O.D. x width )	$\phi 205 \sim 255 \times 150 \sim 255 \text{ mm}$
Regulating wheel speed	13 ~ 308 r.p.m ( 8 ~ 10 steps )

**PC-12S / 14S / 16S / 18S / 1810S / 1812S**

Standard grinding range ( dia. )	$\phi 1 \sim 40 \text{ mm} / \phi 1 \sim 80 \text{ mm}$
Grinding wheel ( O.D. x width )	$\phi 305 \sim 455 \times 150 \sim 305 \text{ mm}$
Grinding wheel speed	2000 m/min
Regulating wheel ( O.D. x width )	$\phi 205 \sim 255 \times 150 \sim 305 \text{ mm}$
Regulating wheel speed	10 ~ 300 r.p.m ( Stepless )



NC control series



Firmus series

**PC-24S-NC / 2410S-NC**

Standard grinding range ( dia. )	$\phi$ 1 ~ 100 mm
Grinding wheel ( O.D. x width )	$\phi$ 610 x 205 ~ 255 mm
Grinding wheel speed	2700 m/min
Regulating wheel ( O.D. x width )	$\phi$ 305 x 205 ~ 255 mm
Regulating wheel speed	10 ~ 300 r.p.m ( Stepless )
Sevor motor	1 ~ 2 axis

**FCL-12 / 18 / 1810 / 1812**

Standard grinding range ( dia. )	$\phi$ 1 ~ 40 mm / $\phi$ 1 ~ 60 mm
Grinding wheel ( O.D. x width )	$\phi$ 305 ~ 455 x 150 ~ 305 mm
Grinding wheel speed	2000 m/min
Regulating wheel ( O.D. x width )	$\phi$ 205 ~ 255 x 150 ~ 305 mm
Regulating wheel speed	10 ~ 300 r.p.m ( Stepless )
Sevor motor	1 ~ 7 axis



Economic series

NC servo series



**GU20X40S / 32(42)X60S / 32(42)X100S / 32(42)X150S**

Swivel over table	200 / 320 / 420 mm
Distance between centers	400 / 600 / 1000 / 1500 mm
Max. external grinding dia.	160 / 280 / 380 mm
Max. load of centers	60 / 150 kg
Grinding wheel ( O.D. x width )	$\phi$ 305 ~ 355 x 38 ~ 50 mm
Grinding wheel speed	2000 m/min
Work spindle and tailstock center taper	MT#3 / MT#4

**GU20X40NC / 32(42)X60NC / 32(42)X100NC / 32(42)X150NC**

Swivel over table	200 / 320 / 420 mm
Distance between centers	400 / 600 / 1000 / 1500 mm
Max. external grinding dia.	160 / 280 / 380 mm
Max. load of centers	60 / 150 kg
Grinding wheel ( O.D. x width )	$\phi$ 305 ~ 355 x 38 ~ 50 mm
Grinding wheel speed	2000 m/min
Work spindle and tailstock Center taper	MT#3 / MT#4



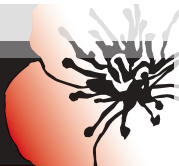
Extomax Series

Straight wheelhead (plunge type)



Extomax Series

Angular wheelhead (Angular type)



**OCD-2040 / 3240 / 3260 / 32100**

Swivel over table	200 / 320 mm
Distance between centers	400 / 600 / 1000 mm
Max. external grinding dia.	180 / 280 mm
Max. load of centers	60 / 150 kg
Grinding wheel ( O.D. x width )	$\phi$ 355 ~ 405 x 38 ~ 50 mm
Grinding wheel speed	2000 m/min
Work spindle and tailstock center taper	MT#3 / MT#4

**OCD-3235A / 3265A**

Swivel over table	320 mm
Distance between centers	350 / 650 mm
Max. external grinding dia.	280 mm
Max. load of centers	150 kg
Grinding wheel ( O.D. x width )	$\phi$ 510 x 80 mm
Grinding wheel speed	2000 m/min
Work spindle and tailstock center taper	MT#4



Extomax Series

Angular wheelhead (plunge type)



With auto. loading and unloading attachment

**OCD-2020P / 3220P / 3240P / 3280P**

Swivel over table	200 / 320 mm
Distance between centers	200 / 400 / 800 mm
Max. external grinding dia.	180 / 280 mm
Max. load of centers	60 / 150 kg
Grinding wheel ( O.D. x width )	$\phi$ 355 ~ 510 x 50 ~ 80 mm
Grinding wheel speed	2000 m/min
Work spindle and tailstock center taper	MT#3 / MT#4

**GV-70**

Max. Diameter of workpiece	$\phi$ 70 mm
Wheelhead swivel angle	45° ~ 60°
Grinding wheel size	$\phi$ 405 x 45 x 152.4 mm
Grinding wheel speed	2700 m/min
Work spindle speed	80 ~ 480 r.p.m.
Spindle elastic collet size	$\phi$ 5 ~ 14 mm
Max. Length of workpiece	150 mm



NC servo motor series ( 1 axis control )



ONIS series ( CNC 2 axis control )

### IG-150-NC

Grinding capacity	6 ~ 150 mm
Max. Workpiece length	150 mm
Swivelling over table dia.	520 mm
Workhead cover swivelling dia.	320 mm
Max. table traverse	540 mm
Max. table feeding speed z-axis	7.2 m/min ( Hydraulic 1 axis )
X-axis feeding speed	5 m/min
X-axis servo motor	400 w
Machine weight	2100 kg

### OIG-150

Grinding capacity	6 ~ 150 mm
Max. workpiece length	150 mm
Swivelling over table dia.	520 mm
Workhead cover swivelling dia.	320 mm
Max. table traverse	540 mm
Max. table feeding speed zaxis	5 m/min
X-axis feeding speed	5 m/min
X-axis servo motor	0.6 kw
Z-axis servo motor	1.5 kw
Machine weight	2500 kg



ONIS series ( CNC 3 axis control )



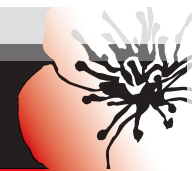
Valical series

### UIG-150

Internal grinding capacity	6 ~ 200 mm
External grinding capacity	10 ~ 250 mm
Max. workpiece length	200 mm
Swivelling over table dia.	400 mm
Workhead cover swivelling dia.	280 mm
Max. table traverse	400 mm
Max. table feeding speed x-axis	5 m/min
Max. table feeding speed y-axis	5 m/min
Max. table feeding speed z-axis	5 m/min
X-axis servo motor	1.8 kw
Y-axis servo motor	1.8 kw
Z-axis servo motor	1.8 kw
Machine weight	6000 kg

### VIG-1010E / VIG-2015E

Internal grinding capacity	9 ~ 100 / 14 ~ 200 mm
External grinding capacity	100 / Max 200 mm
Max. grinding length	100 / 150 mm
Max. workpiece swing	φ 200 mm / φ 300 mm
Max. workpiece loading capacity	40 / 100 kg
X , Z-axis slide ways	Linear ways
Controller	Mitsubishi magic 64
Machine weight	4500 / 7000 kg



### PSG-C60150AHR

Working surface of table	600 x 1520 mm ( 24" x 60" )
Max. surface ground	600 x 1520 mm ( 24" x 60" )
Table speed	5 ~ 25 m/min ( 200" ~ 1000"/min )
Table guideway	V & Flat way
Wheel speed	2000 m/min
Wheel dimension	φ 405 x 50 x 127mm ( 16" x 2" x 5" )
Spindle motor	7.5 kw
Machine weight	7500 kg

### PSG-CL3060AH

Working surface of table	300 x 600 mm ( 12" x 24" )
Max. surface ground	300 x 600 mm ( 12" x 24" )
Table speed	5 ~ 25 m/min ( 200" ~ 1000"/min )
Table guideway	V & Flat way
Wheel speed	2000 m/min
Wheel dimension	φ 355 x 38 x 127mm ( 14" x 1.5" x 5" )
Spindle motor	3.75 kw
Machine weight	1700 kg





With auto. loading and unloading attachment

With auto. loading and unloading attachment

### OCD-3240

- . CNC controller : FANUC Oi Tc
- . 2 axis control
- . Mass production with robot arm to do auto. loading and unloading system.
- . Saving 1/3 time and work efficiency upgrade 60%
- . Suitable for different shape of workpiece.

### FCL-1812-3

- . Grinding wheel size :  $\phi 455 \times 305 \times 228.6$  mm
- . Regulating wheel size :  $\phi 255 \times 305 \times 111.2$  mm
- . CNC controller : FANUC Oi Tc
- . 3 axis : X , Y , Z axis
  - . X axis : Lower slide auto. infeed
  - . Y axis : Grinding wheel auto. dressing ( horizontal )
  - . Z axis : Grinding wheel auto. dressing ( vertical )
- . Mass production with auto. loading and unloading attachment for infeed grinding.
- . Work efficiency upgrade 60%.
- . with JIB Crane for grinding wheel , it's very easy to change new wheel, saving 1/3 time and work efficiency.