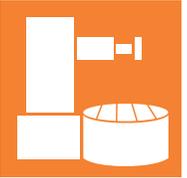
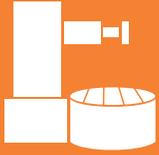




# ROTARY TABLE SURFACE GRINDER

KGR SERIES





# ROTARY TABLE SURFACE GRINDER

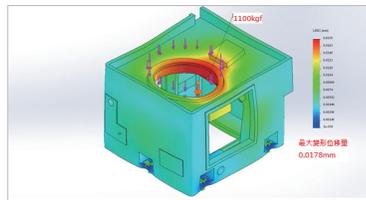


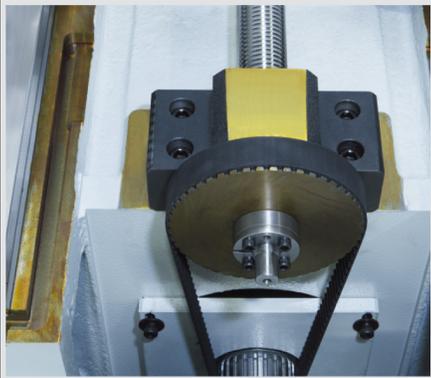
## Structure

Castings are made of high quality ribbed cast iron, which have been heat-treated to achieve extreme rigidity.

Major castings are all box-type designed for excellent rigidity and strength.

Compact designed bed and columns enable the whole machine to be shipped in a regular container, and also much saving on ocean and inland freight.

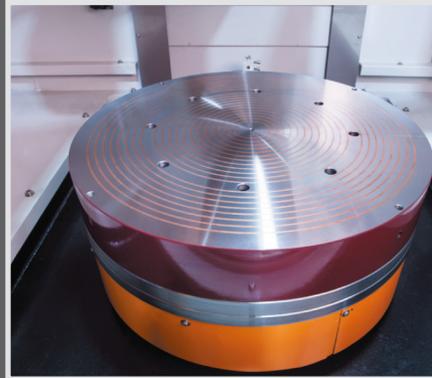




Vertical/cross-feed driven by AC-servo-motor

## 2-Axes Mechanism

The "SP" grade linear guides are used for Y/Z axis, and there are four blocks on each axis that can provide 0.001mm vertical/cross-feed graduation.



## Rotary Table

The rotary table with very low friction force and high rigidity, driven by servo motor with belt.



## Controller

The well-known control system Mitsubishi PLC and servo motor. Ergonomically designed operation panel, with 10" colored touch screen for grinding data input through dialog pages.

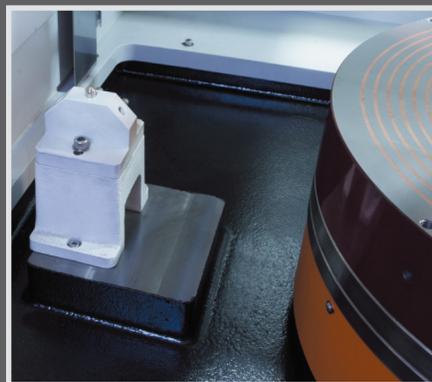
We use MPG instead of hand-wheel for precision and easy usage.

Y-axis can be equipped with "HEIDENHAIN" linear scale as an option for real closed loop feedback system.



## Spindle

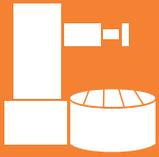
Cartridge and flange type designed, powered with a powerful motor and supported by 3 sets of #7016 CP4 super precision angular contact ball bearings.



## Dressing and compensation

The table mounted wheel dresser is integrated into automatic grinding cycle. The dressing result is perfectly paralleled to talbe surface for super precision.

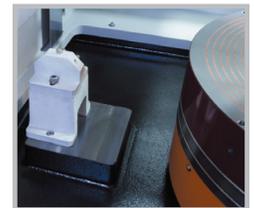




## SPECIFICATION

Item	KGR-500		KGR-600		KGR-800		KGR-1000		
<b>Capacity</b>	Max. grinding diameter	500 mm	19.6 in	600 mm	23.6 in	800 mm	31.5 in	1000 mm	39.4 in
	Max. Cross-feed travel	400 mm	15.7 in	400 mm	15.7 in	600 mm	23.6 in	600 mm	23.6 in
	Distance between spindle center to table	600 mm	23.6 in	600 mm	23.6 in	600 mm	23.6 in	600 mm	23.6 in
	Max. Table load (mag. chuck included)	600 kg	1,322 lbs	700 kg	1,543 lbs	700 kg	1,984 lbs	1100 kg	2,425 lbs
<b>Table</b>	Table speed	10~100 r.p.m.				10~50 r.p.m.			
	Cross-feed	1 gra.	0.001/0.01 mm		0.00005 / 0.0005 in				
	MPGx1x10	1 rev.	0.1/1 0.005/0.05 in		0.005 / 0.05 in				
	Cross-feed auto. increment	0.01~25 mm		0.0005 -1 in					
	Cross-feed continuously feed rate	5~2000 mm/min		0.2 -80 in/min					
<b>Wheel</b>	Grinding wheel dimension	Ø400x80x127 mm							
<b>Spindle/ Elevation</b>	Elevation in-feed	1 gra.	0.001/0.01 mm		0.00005 / 0.0005 in				
	MPGx1x10	1 rev.	0.1/1		0.005 / 0.05 in				
	Elevation raped feed rate	5~1500 mm/min		0.2 - 60 in/min					
	Auto down-feed increment	0.001~0.099 mm		0.00005 -					
<b>Motors</b>	Spindle motor	7.5 kW x 4P (10 HP)				11.25 kW x 4P (15 HP)			
	Elevation motor (with brake)	1 (AC Servo) kW				1 (AC Servo) kW			
	Table driving motor (with reducer)	2 (AC Servo) kW				3 (AC Servo) kW			
	Coolant motor	0.4 kW							
	Cross-feed driving motor	1 (AC Servo) kW							
<b>Dimension</b>	Net weight	5000 kg	11,023 lbs	5000 kg	11,023 lbs	6000 kg	13,227 lbs	6500 kg	14,333 lbs
	Cross weight	5500 kg	12,126 lbs	5500 kg	12,126 lbs	6500 kg	14,330 lbs	7000 kg	15,432 lbs
	Base space	2300x3200x 2650 mm	90.5x126x 104.3 in	2300x3200x 2650 mm	90.5x126x 104.3 in	2800x3500x 2700 mm	110x137.8x 106.3 in	2800x3500x 2700 mm	110x137.8x 106.3 in

Remark: The data listed above are only for reference, and the manufacturer retains the right to change the machine design, mechanical specifications and mechanical structure.



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