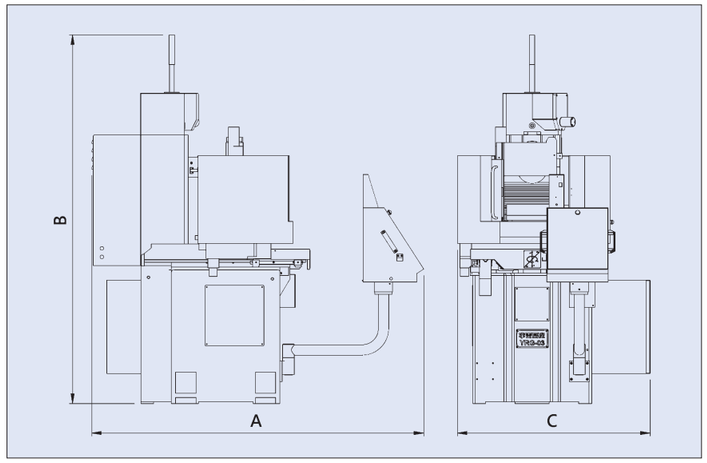
Specifications:

ITEM		UNIT	YRG-03	YRG-04
CAPACITY				
Rotary table diameter		mm	Ø300	Ø400
Maximum distance from table top to spindle center line		mm	210	280
Maximum Cross (Z-axis) travel		mm	235	285
Table rotating speed		rpm	20~200	15~200
Auto down feed setting (One/Two side feed)		mm	0.001~0.999	0.001~0.999
Maximum grinding diameter		mm	350	450
SPINDLE				
Grinding wheel (Dia x Thickness x Bore)50Hz		mm	205x13x31.75	355x32x127
Grinding wheel (Dia x Thickness x Bore)60Hz		mm	180x13x31.75	305x32x127
Spindle speed (50/60Hz)		rpm	2860/3460	1430/1735
Spindle motor		HP/P	3HP	3HP/4P
MOTOR				
Rotary table servo motor		w	900	400
Vertical servo motor		w	300	300
Cross servo motor		w	400	400
VERTICAL FEED (Y-axis)				
Vertical rapid feed 100%		mm/min	300	240
Vertical slow feed 10%		mm/min	30	24
MPG	Per revolution (x1, x10, x100)	mm	0.1 , 1 , 10	0.1 , 1 , 10
	Per graduation (x1, x10, x100)	mm	0.001 , 0.01 , 0.1	0.001 , 0.01 , 0.1
CROSS FEED (Z-axis)				
Cross rapid feed 100%		mm/min	1200	1200
Cross slow feed 10%		mm/min	120	120
MPG	Per revolution (x1, x10, x100)	mm	0.1 , 1 , 10	0.1 , 1 , 10
	Per graduation (x1, x10, x100)	mm	0.001 , 0.01 , 0.1	0.001 , 0.01 , 0.1
DIMENSION &WEIGHT				
Weight (approx)		kg	1247	1800
Packing dimensions (LxWXH)		mm	2100 x 1500 x 2130	2270 x 1700 x 2130

• The above specifications subject to change without prior notice.

Dimensional Drawings:

UNIT : mm



Standard Accessories:

Item	Description	Q'ty
1.	Grinding wheel (Dia x Thickness x Bore) Ø355x38xØ127	1
2.	Grinding wheel flange & puller	1
3.	Arbor & nut for wheel balancing.	1 Each
4.	Diamond tool (1/4 carat) with a base	1 Each
5.	Dust sweeping squeegee	1
6.	Working lamp	1
7.	Leveling plates, bolts and nuts	6 Sets
8.	Necessary tool with a tool box	
	A. Wrench (36m/m)	1
	B. Allen key wrench (2.5,3,4,5,6,8 m/m)	1 Each
	C. Adjustable wrench (375m/m)	1
	D. Cross screw driver (#4)	1
9.	Lubrication oil (4 liters, mobile #1405)	2
10.	Operation manual and inspection certificate	1 Each
11.	Touch up paint	1
12.	Coolant system C/W a magnetic dust separator.	1
13.	Automatic diamond wheel dresser with compensation.	1
14.	Automatic demagnetizing controller for electro-magnetic chuck.	1
15.	Electro-magnetic chuck.	1
16.	Grinding wheel balancing apparatus.	1
17.	Spare grinding wheel flange.	1
18.	Spindle overload protection device.	1
19.	Standard splash guard.	1

Optional Accessories:

Note: The marks " ★ " to be installed at factory.

★	C01	Spindle inverter
★	D02	Linear scale for vertical and horizontal (feedback)
★	E06	Coolant system with paper filter
★	E07	Coolant system with paper filter & C/W a magnetic dust separator
★	I11	Cutting fluid Cooler
★	N01	Auto. Dynamic balancer for grinding wheel on machine.
★	R02	Grinding wheel flange (Auto & Dynamic)

Dimensional Drawings:

Model \ Item	YRG-03	YRG-04
A	2100	1720
B	2160	1850
C	1500	1970

SEEDTEC®

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SEEDTEC®

The Leading Name in Surface Grinders

YRG-03/04

CNC Precision Rotary Table Surface Grinder

Over 30 YEARS EXPERIENCE

SEEDTEC®

CNC PRECISION SURFACE GRINDER ROTARY TABLE TYPE

Super high precision accuracy with 3 axes servo drive.

- Meehanite Castings- All major castings are annealed and stress relieved for deformation-free on the structure, to ensure life time accuracy and maximum stability.
- Double V slide ways for horizontal axis.
- 3 axes AC servo motor drive. To perform high precision efficiently by optimizing the capacity when machining.
- Automatic wheel dressing. To dress wheel coarsely, finely, and auto compensation.
- Minimum down feed, 1μ down feed on control screen.
- Machining feature, flat surface grinding and step surface grinding.

Super high precision by rotary grinding

- Testing work piece (ø70mm X 50mm, 6 pcs), flatness deviation under 2μ.
- Surface roughness is under 0.2Ra.

Constant peripheral velocity of rotary table

- While wheel head moving to rotary table center, the rotating speed of table will be increased automatically based on the wheel head position to keep same peripheral velocity. It's more effectively high precision of machining, and less consumption of wheel.

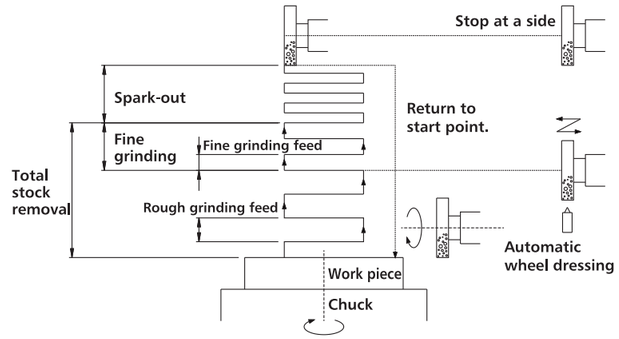
Rotary table advantages

- Rotary grinding, less time consumed, higher efficiency, better accuracy, flatness deviation under 2μ, and it's 3 times machining efficiency more than conventional surface grinder.

General machining workpiece.

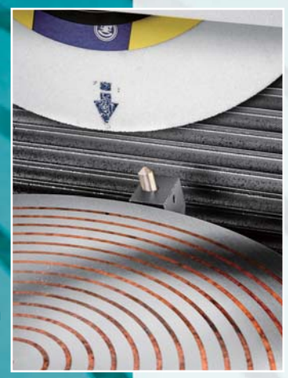
- Spindle spacer.
- Circular plate
- Edge of knife. (ex: Slicing knife)
- Thin plate.

Automatic grinding cycle (Including automatic wheel dressing with compensation)



Automatic wheel dressing with compensation function

Automatic wheel dressing function including rough dressing, fine dressing and compensation.



Easy and friendly operation

- Easy to use control equipped with 10" color touch screen and conversational machining parameters input.
- Convenient to touch work piece and test grinding by MPG.
- Allows two-step machining including rough and fine grinding. This combines with 9 times (Max) setting for spark-out to achieve higher accuracy and better efficiency.
- The spindle position displays on the screen at any time, and permits zero position setting at any position featuring similar function as a liner scale.
- The spindle down feed provide 5 modes:
  1.Rapid feed (230mm/min)
  2.Jog feed (According to F setting value)
  3.Micrometric feed (1μ / per time)
  4.MPG feed, Z-axis feed rate includes 1μ, 10μ, and 100μ, and Y-axis feed rate includes 1μ, 10μ, and 100μ.
  5.Fully automatic.
- After spindle moved or wheel dressed, it does not affect the original set feed amount. Therefore, no need to make a resetting.
- The spindle raised to "a" position (can be set) above the zero position.
- Once spindle raised to "a" position then fast descending to grinding position, pressing automatic cycle key, the machine performs automatic cycle operation. It's safe and convenient operation.
- Total feed amount and machining data settings are directly entered through value. No calculation is required and no machining residual for operation convenience.
- Illustrative control panel and diagrammatic feed instruction combined with conversational input through flash light featuring humanized operation. The operation panel is easy to learn and operate.
- After machining finished, the operator may select below conditions:
  a.The machine does not stop but the warning lamp flashing.
  b.Machine stopped and power off, this mode is suitable for the last setting of grinding before job finished everyday.