

## SPECIFICATIONS

MODEL	OA-3260	OA-3280	OA-32100	OA-32120	OA-32160	OA-4060	OA-4080	OA-40100	OA-40120	OA-40160	
Table clamping surface (WxL) mm	W	800					1000				
	L	1750	2200	2700	3200	4200	1650	2200	2700	3200	4200
Maximum longitudinal travel	mm	1650	2150	2650	3150	4150	1650	2150	2650	3150	4150
Maximum cross travel	mm	860					1060				
Max. grinding area (WxL) mm	W	800					1000				
	L	1500	2000	2500	3000	4000	1500	2000	2500	3000	4000
Max. distance between spindle centre and table	mm	800 / 1000 option					800 / 1000 option				
Downfeed per division (MPG)	mm	x0.001、x0.005、x0.01					x0.001、x0.005、x0.01				
Downfeed per revolution (MPG)	mm	x0.01、x0.5、x1.0					x0.01、x0.5、x1.0				
Auto-down feed (Servo motor)	mm	0.001 ~ 0.05					0.001 ~ 0.05				
Longitudinal table speed	m/min	3 ~ 26					3 ~ 26				
Crossfeed intermittent	mm	1 ~ 30					1 ~ 30				
Crossfeed continuous	m/min	1.5					1.5				
Crossfeed per division	mm	0.02					0.02				
Crossfeed per revolution	mm	5					5				
Grinding wheel dimensions (O.D. x I.D. x Width) mm		ø405 x ø127 x 50 (standard) / ø405 x ø127 x 75 (option) ø455 x ø127 x 50 (option) / ø455 x ø127 x 75 (option)					ø405 x ø127 x 50 (standard) / ø405 x ø127 x 75 (option) ø455 x ø127 x 50 (option) / ø455 x ø127 x 75 (option)				
Spindle speed (50/60Hz)	r.p.m.	1450 / 1750					1450 / 1750				
Spindle motor	kw	11 (15HP)					11 (15HP)				
Hydraulic pump motor	kw	5.5 (7.5HP)			7.5 (10HP)		5.5 (7.5HP)			7.5 (10HP)	
Total power of motors	kw	18 (24HP)			20 (26.5HP)		18 (24HP)			20 (26.5HP)	
Floor space (HxWxL) m	H	2.8 / 3.0(option)					2.8 / 3.0(option)				
	WxL	3.1 x 6	3.1 x 7	3.1 x 8	3.1 x 9.2	3.1 x 11.5	3.3 x 6	3.3 x 7	3.3 x 8	3.3 x 9.2	3.3 x 11.5
Net weight (approx.)(Without electro-magnetic chuck) kg		12000	13200	14400	16000	19100	12900	14400	15900	17450	21000
Electro-magnetic chuck weight (approx) kg		1000	1150	1450	1700	2300	830	1120	1390	1660	2250

Manufacturer reserves the right to change or improve specifications without notice.

### STANDARD ACCESSORIES

1. Grinding Wheel
2. Wheel Flange
3. Coolant Equipment
4. Tools with Box
5. Balancing Arbor
6. Wheel Extractor

### OPTIONAL ACCESSORIES

1. Vertical spindle grinding equipment
2. Electro-magnetic chuck  
(Includes rectifier with automatic demagnetizing.)
3. Spare wheel flange
4. Balancing base
5. Halogen machine lamp
6. Band filter coolant clarifier
7. Magnetic dust separator

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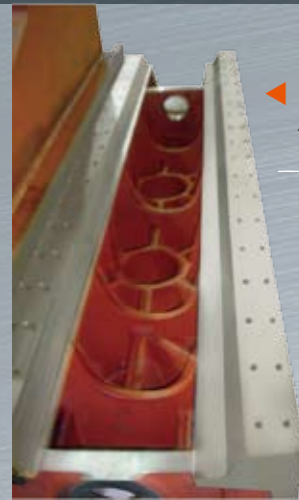


## Over Arm Surface Grinder

e-tech Machinery, Inc.



# OVER ARM SURFACE GRINDER



Arm

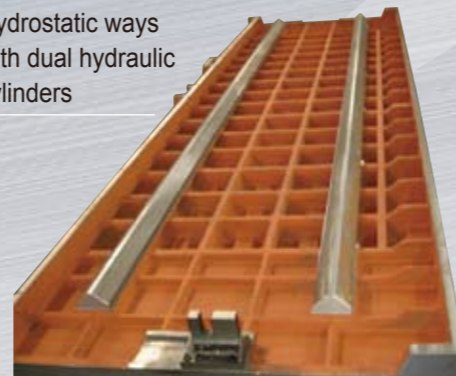


Column

Rigid column structure  
Honey comb type (Left/Right)  
Double layer type (Front / Rear)

Table

Hydrostatic ways with dual hydraulic cylinders



## FEATURES

### ■ RIGID CONSTRUCTION

Manufactured with strong ribs, top grade castings, stress-free annealed cast components which assures the highest accuracy and long life.

### ■ DIRECT DRIVE INTERCHANGEABLE SPINDLE

Which is supported by super-precision preloaded bearings with sealed lubrication, it offers a top quality grinding finish.

### ■ PRECISION SCRAPED TABLE AND BED

Double-Vee ways of table are ground and precision scraped for hydrostatic lubrication of effortless and smooth traverse.

### ■ NEEDLE ROLLER WAYS

The steel guideways of column and head-bracket are hardened and ground. Precise preloaded needle roller bearings SKC 3 have been equipped between slideways to ensure the minimum downfeed and crossfeed can be achieved.

### ■ AUTOMATIC GRINDING CYCLE: (optional)

Incorporates automatic downfeed, auto stop for sizing, spark-out up to 9 times, table auto stop at extreme left end for easy loading, plunge or traverse grinding are both applicable.

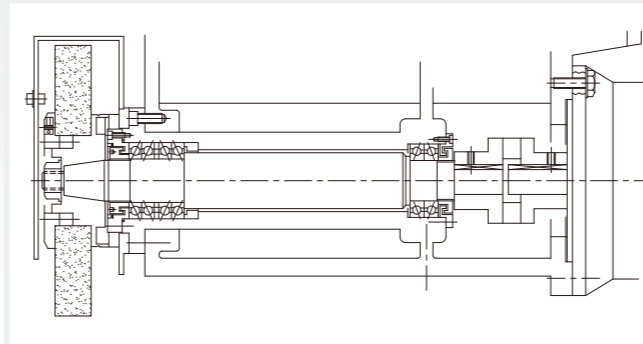
### ■ AUXILIARY SWIVELLING VERTICAL GRINDING SPINDLE: (optional)

The machine can be equipped with a vertical grinding spindle mounted on a crossrail which can be adjusted  $\pm 60^\circ$  for grinding dovetails and other of slideways.

## SPINDLE AND WHEELHEAD

The extra rigid designed spindle is suitable for heavy duty grinding. The grinding spindle is supported by six pieces of super precision angular contact, preloaded bearings with permanent lifetime grease lubrication (as shown).

The interchangeable spindle is mounted in the rigid wheelhead. It is driven by a dynamically balanced 15HP motor via a flexible coupling to eliminate deflection and vibration. This permits an exceptional quality grinding finish.



### ▲ PRECISION SPINDLE

6 Bearings P4 Class (NSK or RHP)  
Tristar Coupling

### ▼ LUBRICATION SYSTEM WITH HYDROSTATIC WAYS

A fully automatic hydrostatic lubrication system is employed on the slideways. An alarm alerts the operator when the oil gets low preventing damage to the machine.



Touch screen panel



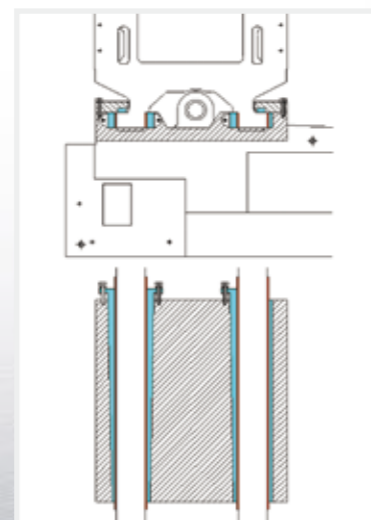
### ▲ TOUCH SCREEN CONTROL PANEL

- The machine is equipped with the PLC touch screen control with easy to learn conversational shop floor language.
- The control has a safety feature that prevents the hydraulics system from being started without the electromagnetic chuck engaged.
- This feature will not allow the wheel head to rapid down while the Hydraulic system is in operation.
- Original workpiece zero position is stored in the control memory even if power to the machine is lost.



Electric Cabinet

Ergonomically designed with many UL listed components



▲ Needle Roller Bearings Slideways



▲ Vertical Spindle Grinding Equipment (Optional Accessories)

### ▶ HYDRAULIC TANK SYSTEM



### ▶ CHILLER FOR HYDRAULIC OIL

A separate hydraulic unit is equipped with a chiller system to avoid transference of heat and vibration from hydraulic system to the machine.