

## Precision Form Grinding Machine

ACC450AV (Fully Auto)

ACC450BV (Longitudinal & Cross Axis Auto)

ACC450CV (Longitudinal Axis Auto)

ACC450PV (Longitudinal & Vertical Axis Auto)



Picture ACC450AV with options

Simply the best machine for precise form grinding developed from our long experience in Grinding Machine Field

### Features :

- Accuracy  
Table surface parallelism with 6 pieces grinding under 0.005 mm.
- Spindle & motor  
1.5 Kw low vibration concealed type spindle motor.  
Angular contact ball bearings at front / rear side of spindle.
- Vertical movement  
Vertical movement by AC servo motor c/w minimum down-feed of 0.0001 mm.
- Cross & longitudinal movement  
Cross movement slide-ways c/w double V-V and table longitudinal slide-ways c/w double V-V with TURCITE coated and precision hand scraped.
- Hydraulic design  
Longitudinal table driven by hydraulic with feed range from 1m/min to 20m/min.  
Easy operation and vibration-free reversing motion by proximity sensor switch.
- Lubrication  
Automatic lubrication system for all slide-ways separated from main hydraulic system.

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**GRIND-X**  
OKAMOTO PRECISION SYSTEMS  
**Okamoto**

Specifications	Unit	AV	BV	CV	PV
<b>CHUCK</b>					
Standard Chuck Size :	mm		450 x 150		
<b>CAPACITY</b>					
Maximum Grinding L x W :	mm		450 x 150		
Spindle Center to Table Surface :	mm		460		
<b>TABLE</b>					
Surface L x W :	mm		480 x 150		
Maximum Longitudinal Travel :	mm		530		
<b>SADDLE</b>					
Maximum Cross Travel :	mm		210		
<b>FEEDS</b>					
TABLE : Longitudinal Feed Rate (Average) :	m/min		0.1 - 20		
Movement per Handwheel Revolution :	mm		100		
SADDLE : Manual Feed :					
Movement per Handwheel Revolution :	mm		5		
Handwheel Graduation :	mm		0.02		
Automatic Feed :					
Intermittent Cross Feed :	mm	0.5 - 5.0	0.5 - 5.0	N.A.	N.A.
Continuous Feed Rate :	m/min	0.1 - 0.4	0.1 - 0.4	N.A.	N.A.
WHEELHEAD : Automatic Down Feed (Plung & Traverse):	mm	0.0001 - 0.03	N.A.	N.A.	0.0001 - 0.03
Manual Micro Feed (x0.1/x1/x10):	mm		0.0001/0.001/0.01		
Down Feed Hand Feed Revolution (x0.1/x1/x10):	mm		0.01/0.1/1.0		
No.of Spark out :	times	0 - 5	N.A.	N.A.	0 - 5
Rapid Feed :	mm/min		600		
<b>GRINDING WHEEL</b>					
Wheel Size (D x W x B) :	mm		205 x 6 - 25 x 31.75		
Wheel Speed (50 / 60Hz) :	rpm		3000/3600		
<b>MOTORS</b>					
Grinding Wheel Spindle :	kW/P		1.5/2		
Hydraulic Pump :	kW/P		0.75/4		
Vertical Rapid Feed :	kW		0.4 (AC servo)		
Cross Feed :	kW		0.75		
<b>POWER</b>					
Machine Power Rating :	KVA		5		
<b>FLOOR SPACE</b>					
Length x Width x Height :	mm		1994 x 1659 x 2268		
<b>WEIGHT</b>					
Net Weight :	Kg		1250		

## Standard Accessories

Automatic Lubrication  
Micro-Feeder for Cross Movement  
Saddle Clamp Device  
Vertical Positioning Display  
Grinding Wheel with Adapter  
Wheel Puller

Wheel Guard  
Diamond Tool with Holder  
Necessary Tools and Toolbox  
Leveling Pads and Bolts  
Instruction Manual

## Optional Accessories

Coolant System  
Splash Guard, Nozzle and Piping  
Dust Suction System  
Electro-Magnetic Chuck  
Permanent Magnetic Chuck  
Demagnetizing Control  
Digital Readout for Cross Movement

Digital Readout for Vertical Movement  
Spindle Speed Inverter  
Grinding Wheel Balancing Apparatus  
Spare Grinding Wheel Adapter  
Work Light  
Overhead Dresser, Manual

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CAUTION

When and before using our products, you are requested to well go through the articles on danger, warning and attention for the sake of safety described in operation manual attached to the machine and also in the warning plates mounted on the machine. \*Specifications subject to change without notice. \*When a product manufactured at our factory comes under the Foreign Exchange And Foreign Trade Control Law and is exported or carried overseas, it is necessary to receive permission or approval of the Japanese Government.