## **Standard Accessories**

Linear Scale (For X Axis) x 1Set

Grinding Wheel and Grinding Wheel Flange x 1Set

Tools and Tool Box x 1Set Hydraulic Tank with Oil Cooler x 1Set

Carbide Tipped Work Centers x 2 Pcs Work Lamp x 2 Sets

Diamond Tool Holder (Table Mounted Type) x 1Set

Coolant Equipment x 1Set

Semi-Enclosed splash guard x 1Set

G.W. Soft Starter x 1Set

Universal Joint

# **Optional Accessories**

Wheel Balancing Stand & Arbor Cam-Locked Type Driving Dog. Vibration Meter for manual grinding wheel balancing 2-Point Steady Rest x 2 sets Adjustable 4-Jaw Scroll Chuck

Semi-Auto. Grinding Wheel Balancer.

Auto. Grinding Wheel Balancer. Jib crane for grinding wheel change G.W. Inverter

Spare Wheel Flange Touch Probe Gauge Auto. In-process Gauge Heavy Duty Neck Rest

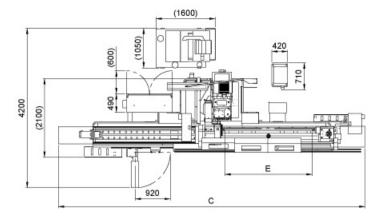
Gap Control Live Center Magnetic Coolant Separator Work Holder

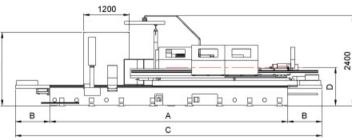
Paper Filter

Internal Grinding Attachment



Model		OCD-45(65) 150	OCD-45(65) 220	OCD-45 (65) 300	
Swing Over Table			ø 450 / 650 mm		
Distance Between Centers  Max. Grinding Diameter		1500 mm	2200 mm	3000 mm	
		ø 420 / 620 mm			
Max. Workpiece Load		800 kg by between centers / 2000 kg by heavy steady rest			
Wheel	OD x Width x ID	ø 510 X 50 ~ 125 mm x ø152.4 mm			
	Speed	33 m/sec			
Wheelhead - X Axis	Max. Movable Distance	350 mm			
	Feedrate	0.001 - 2000 mm/min			
	Rapid Feedrate	4000 mm/min			
Wheelhead - Z Axis	Max. Movable Distance	1970 mm	2750 mm	3620 mm	
	Feedrate	0.001 - 2000 mm/min			
	Rapid Feedrate	4000 mm/min			
Workhead	Center	MT . No. 6			
Workinedu	Speed ( variable speed )	0 -250 RPM			
	Center	MT . No. 6			
Tailstock	Moveable Mode of Centers	Manual For standard / Hydraulic for optional			
	Max. Distance of Centers	60 mm			
Motor	Wheel Spindle	11KW (15HP)			
	Workhead	2.9 KW / 5.5 kw			
	Wheelhead - X Axis	2.8 KW ( AC Servo Motor )			
	Wheelhead - Z Axis	4.4 KW ( AC Servo Motor )			
Center height of Machine	From ground		1000 mm		
	Machine Weight	12000 kg	14000 kg	16000 kg	





lodel	OCD-45 (65) 150	OCD-45 (65) 220	OCD-45(65)300
\ mm	4650	6210	7770
3 mm	700	900	1300
mm	6050	8010	10370

1000 (1100) 2280

3130

1920						
,						
	В	A	В			
		С				



CNC CYLINDRICAL GRINDING MACHINE HEAVY DUTY GRINDING



AFFORDABLE GRINDERS (U.S.A.) T: 830-469-7347

affordablegrinders.com







CNC CYLINDRICAL GRINDING MACHINE

# **Application**

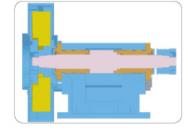
**HEAVY DUTY GRINDING** 

- Oversized motor shaft
- Oversized printing shaft
- Rubber rolling shaft
- Rolling shaft
- Oversized roller etc.

# - Oversized gear shaft

### **Rigid Spindle Head**

- The rigid constructed spindle head employs high precision bearings assuring maximun spindle stablity it guarantees outstanding accuracy for external and internal diameter grinding and face grinding.
- The spindle head on the EXTOMAX series cylindrical grinding is driven by servomotor, providing variable speed change.
- The spindle head allows for swiveling postive 90° and negative 30°



### Wheel Spindle with Hydro-static Bearing Absolutely No Metal-to-Metal Contact

Hybrid Palmary hydro-static Bearings are used for the wheel spindle bearings. Metal-to-metal contact will never occur with these highly rigid bearings which have a damping effect and make 0.5µm the new definition of wheel spindle rotational accuracy.



# Special hydro-static Bearing

The wheel spindle runs by using a special hydro-static bearing and is especially ideal for precision grinding work. It feature high speed, no friction between metals, no heat generation, deformation-free, extra high accuracy and continual use.



CNC Controlle ( Could choose FANUC, SIEMENS, MITSUBISHI)

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- Newly developed EXTOMAX breaks through the original limited design of medium- and small-sized machine tools.
- Re-enforced structure, low gravity and high rigidity machine base, made of Meehanite cast iron through annealing and aging treatment, incorporated into a no-deformation and precise machine body.

PALAMRY® OCD-45300

- Longitudinal and traverse sliding tables, with enlarged overall stride and rail way width, precision scrapping made on both horizontal and vertical sides, coupling with hydrostatic structure, light and steady movement of sliding table, repeated precision reaching up to  $\mu$  level.
- Grinding wheel spindle designed with hydrostatic bearing, free of metal friction and thermal deformation, allowing smooth within the oil film operation of spindle.
- Workhead and tailstock specially designed for heavy duty work, high rigidity structure, increasing overall loading capacity. Workhead is driven by servo motor, providing step-less variable speed change. Supported by precision bevel bearing, attains vibration free transmission ability. Tailstock equipped with hydraulic and stopper for easy operation, horizontal air bearing designed for easy displacement, reducing friction and increasing longevity.

# **Rotary-type Internal Grinding Attachment** (Optional Accessory)

- Easy to change over from O.D. grinding to I.D. grinding. The attachment is fixed by the rotary support for convenient workpiece loading.
- To position the internal grinding attachment, simply turn it downward and fix it in the grinding position.
- Allows for external and internal grinding operations in one process.
- Tapered workpieces can be ground by swiveling on the workhead and table.

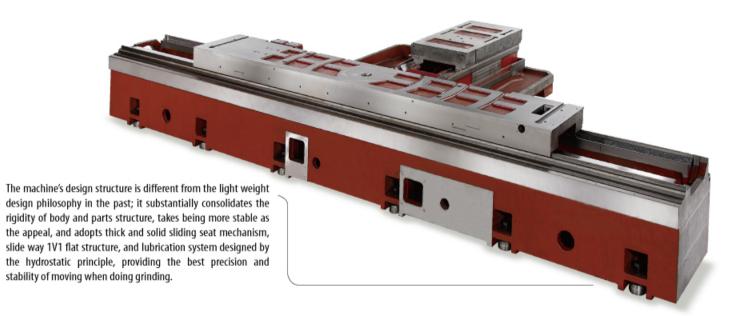


The rigid tailstock is locked on the slide firmly. The tailstock quill movement is driven by hydraulic power for convenient and fast workpiece clamping and unclamping.



### Advanced Hydro-static Lubrication System

The slideways of the table and of the wheel head are lubrication by an advanced automatic hydro-statical lubrication system. This provides various features such as extremely smooth movement, added feeding accuracy and superior frinding accuracy.



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The slide way adopts scraping technics processing, inherits traditional techniques, cooperates with precise measuring equipment, and ensures the smoothness and straightness on the slide way with rigorous demand.

A Total Dedication to New Technological Level