

OUTLINE

This is a grinding machine for performing the keystone processing of rings on one side individually with 2 work heads and 2 grinding wheel spindle in the full-automatic mode.

The keystone angle is automatically set by means of CNC control.

Productivity is doubled or more compared with one-side keystone grinding machines.

45600 Group

CNC FULL AUTOMATIC DUAL KEYSTONE RING GRINDING MACHINE

WKG-1

6/17-45600

SIDE FACE (KEYSTONE)

● Use DIESEL / GASOLINE

● Material C S

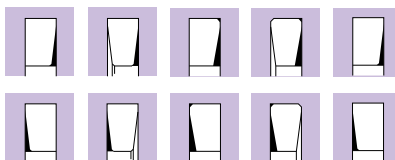
● Condition W

● O.D.Range $\phi 60 \sim \phi 170$

● Chucking Breadth 1 PIECE

● 1-cycle processes SINGLE

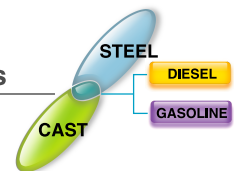
● Machining Profile



SPEC

PHOTO

PHOTO



● KEYSTONE RING GRINDING MACHINE 14212 Series List of Specifications

仕様項目		14212 6/17-45600		
		WKG-1		
SPEC SHEET				
No. of work clamps		Single		
Method of work clamp		Electromagnetic chuck		
Work head side		Electromagnetic chuck		
Tailstock side				
Closing sleeve				
Structure		Horizontal type		
Operation mode	Full automatic	○		
	Semi automatic			
SPEC	Machining capacity	Ring nominal diameter(ϕ)	60~170	
		Keystone angle(°)	0~15	
	Machining count per cycle		Single	
	Work head	No. of heads	2	
		No. of spindle speed changes	Stepless (inverter)	
		Head clamp method	Self-tensile	
	Grinding head	No. of heads	2	
		No. of spindle speed changes	Stepless (inverter)	
		Spindle structure	Hydrostatic bearing	
	Machine dimensions L × D × H(mm)		2890×2830×2089	
	Machine weight(kg)		About 5000	
Basic structure	NC controlled axes	Work head		
		Grinding head	2×2	
		Others		
	Loader		V clamber	
	Unloader		Swing transfer type	
	Stocker	IN stocker	Suspended rail(Work pusher)	
		OUT stocker	Suspended rail	
	Hydraulic unit		○	
	Pneumatic unit		○	
	Forcible lubrication unit for slide		○	
	Electric system	Control panel	○	
		NC unit	○	
	Dressing unit		○	
		Deburring unit	○	
Standard attachments	Leveling bolt & plate		○	
	Adjustment tool		○	
	Machine instruction manual		○	
	NC instruction manual		○	
Basic options	Grinding axis hydrostatic spindle		○	
	Grinding spindle stepless speed change		○	
	CE marking		○	
Added options	C V	Low-pressure splash guard	○	
		High-pressure splash guard	○	
	C L	Coolant tank	○	
		Low-pressure coolant unit	○	
		High-pressure coolant unit	○	
		Coolant separator	○	
		Coolant filtering unit	○	
		Magnetic separator	○	
	M C	Paper filter	○	
		Mist collector	○	
		Cover & hood for mist collector	○	
	D	Standard dressing unit	○	
		Dressing unit for CBN wheel	○	
	G	Diamond tool	○	
		Down amount measuring unit	○	
		Angle measuring unit	○	

H Y D	Fan cooler for hydraulic unit	☐		
	Heater for hydraulic unit	☐		
	Oil controller	☐		
E	3-lamp signal tower	☐		
	4-lamp signal tower	☐		
	Data registration function	☐		
	RS232C interface	☐		
	Keystone angle change auto offset software	☐		
	Air conditioner	☐		
	Grinding wheel flange (spare)	☐		
	Grinding wheel	☐		
	Balancing arbor	☐		
	Spare part 1	☐		
	Spare part 2	☐		

Added options mark

CV : Cover CL : Coolant unit MC : Mist collector D : Dressing unit G : Measuring unit AIR : Pneumatic unit V : Dust collector HYD : Hydraulic unit
E : Electric system LUB : Lubricator