

*Reliable, Trustable,  
Responsible.*



***Reliable***

Reliable quality products from only famous brand factories, most of them are listed companies, leading enterprise, and even international type groups

***Trustable***

We put our reputation in first position, no lie and no cheat, what we promise what we do.

***Responsible***

We put our reputation in first position, no lie and no cheat, what we promise what we do.

***We believe, we can, we just do it.***



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Gudwill focus on grinding technology,  
One-stop solution for  
your grinding requirement.

**CNC Forming Grinder Series**

## CNC Powerful Forming Grinder Series

MKL7132×8    MKL7132×12    MKL7132×25  
 MKL7150×10    MKL7150×16



### Main Features

- Siemens 828d / 840dsl CNC system is adopted to control the longitudinal movement of worktable, vertical feed of grinding head, transverse feed of column, continuous dressing shaft and grinding wheel. The spindle is controlled separately or linked. It has compensation functions such as linear interpolation and circular interpolation, and can realize automatic grinding interpolation.
- The application of various shaping and trimming technologies, such as diamond wheel trimming on the table, diamond pen or diamond disc trimming through Y and Z axes, swing trimming and top mounting Diamond roller on-line continuous dressing (CD) with high dressing precision.
- Spindle system temperature control technology
- High speed ballscrew can be configured longitudinally to realize reciprocaing grinding of ordinary flat grinding.
- Operation interface for secondary development of Hangji: menu type man-machine dialogue interface, graphic display, simple and easy to use.
- The shape of the machine tool is novel, the mandatory safety standards are implemented, and the fully enclosed shell design meets the environmental protection requirements.



### Main specifications and parameters

MODEL:		MKL7132×8	MKL7132×12	MKL7132×25	MKL7150×10	MKL7150×16
Table size (W) × (L)	mm	320 × 800	320 × 1250	320 × 2500	500 × 1000	500 × 1600
Max. capacity of table	kg	600	800	1500	1200	1500
Longitudinal movement (X axis)	Max. stroke	mm	800	1250	2500	1100
	Max. speed	mm/min	25000			
	Min. feed	mm	0.001			
Vertical feed (Y axis)	Distance from spindle center to table	mm	150-700		250-800	
	Max. speed	mm/min	3000			
	Min. feed	mm	0.001			
Lateral movement (Z axis)	Max. stroke	mm	280		420	
	Max. speed	mm/min	3000			
	Min. feed	mm	0.001			
Spindle	Power	kW	17 ( 30 option )		60 ( 44、90、110 option )	
	Speed	rpm	0-3000 ( 5000、8000 option )		0-3000 ( 5000 option )	
	Axis jump/radial jump	mm	0.002			
Grinding wheel	Size ( O.D × W × I.D )	mm	400 × ( 20-120 ) × 127mm option 300 × 40 × 76mm		500 × ( 20-240 ) × 203mm option 400 × ( 10-120 ) × 127mm 600 × ( 20-240 ) × 305mm	
	Pressure	bar	> 10		> 12	
Cooling	Flow	L/min	> 120 (		> 300	
	Positioning accuracy (full closed loop)	mm	0.004			
Repeat positioning accuracy (full closed loop)	mm	0.002				

\*Due to the continuous development of technology, this volume is for reference only

## Five Axis CNC Powerful Forming Grinder

### MKL7150×16

This series of machine tools adopts a new layout type of middle waist column moving horizontal axis rectangular table. The machine tool adopts mature slow feed forming strong grinding technology, which can be directly ground into blank shape, advanced technology, high forming precision, high production efficiency and high degree of automation.

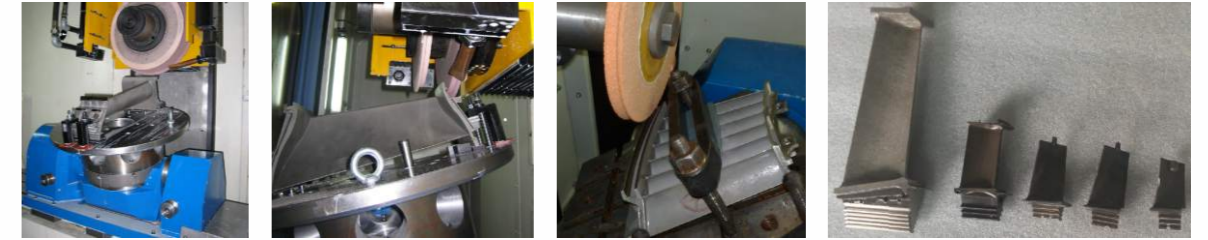
The machine tool is mainly used for high-precision grinding of complex curved surfaces such as arc crown of heavy gas turbine blade, inner and outer circles of guide blade, mounting plate and arc groove

It is used for the surface processing of parts such as multi-directional, convex, concave and arc surfaces, including the forming surfaces of various difficult to process materials.



### Main Features

- ⊙ X, Y, Z and V four axis guide rails have advanced structure and technology, ensuring precise feeding and high machining precision.
- ⊙ Siemens 828D / 840DSL CNC system is adopted to control the longitudinal movement of worktable, vertical feed of grinding head, transverse feed of column, continuous dressing shaft and grinding wheel. The spindle is controlled separately or linked. It has compensation functions such as linear interpolation and circular interpolation, and can realize automatic grinding interpolation.
- ⊙ Spindle system temperature control technology
- ⊙ The application of various shaping and trimming technologies, such as diamond wheel trimming on the table, diamond pen or diamond disc trimming through Y and Z axes, swing trimming and top mounting diamond roller on-line continuous dressing (CD) with high dressing precision.
- ⊙ Operation interface for secondary development of Hangji: menu type man-machine dialogue interface, graphic display, simple and easy to use.
- ⊙ The shape of the machine tool is novel, the mandatory safety standards are implemented, and the fully enclosed shell design meets the environmental protection requirements.



### Main specifications and parameters

MODEL:		MKL7150×16	
Table size (W) × (L)		mm	500 × 1600
Max. capacity of table		kg	1500
Longitudinal movement (X axis)	Max. stroke	mm	1700
	Max. speed	mm/min	25000
	Min. feed	mm	0.001
Vertical feed (Y axis)	Distance from spindle center to table mm	mm	250-800
	Max. speed	mm/min	3000
	Min. feed	mm	0.001
Lateral movement (Z axis)	Max. stroke	mm	420
	Max. speed	mm/min	3000
	Min. feed	mm	0.001
Overhead dresser (V axis) (optional)	Max. installation width	mm	160
Tilt axis (A axis)	Angle range	(°)	-20° ~ +120°
	Min. feed mm	mm	0.001°
Rotary axis (B axis)	Angle range	(°)	0° ~ 360°
	Min. feed mm	mm	0.001°
Spindle	Power	kW	60 (44、90、110 option)
	Speed	rpm	0-3000 (5000 option)
	Axis jump/radial jump	mm	0.002
Grinding wheel size	O.D × W × I.D	mm	400 × (10-120) × 127mm
Cooling	Pressure	bar	> 15
	Flow	L/min	> 200
Positioning accuracy	X, Y and Z axes full closed loop)	mm	0.004
Repeat positioning accuracy	X, Y and Z axes full closed loop)	mm	0.002

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## CNC Powerful Double Head Forming Grinder

### MKLD7150

This series of machine tools adopts advanced slow feed strong form grinding technology, which can realize strong grinding by reducing the longitudinal feed speed of the worktable, increasing the power of the grinding wheel motor and using the formed grinding wheel, and can be directly ground from the blank.

The machine tool is suitable for grinding typical profiles such as fir tree root and linear guide rail of aeroengine and steam turbine blades, as well as symmetrical and asymmetric profiles of other parts with difficult grinding materials.



#### Main Features

- ⊙ The layout of the machine tool is horizontal axis rectangular table. There are upper and lower grinding heads, which make vertical lifting in the middle of the column, and can grind the upper and lower sides of the workpiece installed on the workbench at the same time.
- ⊙ Siemens 828D /840DSL CNC system is adopted to control the longitudinal movement of the worktable, the vertical feed of the upper and lower grinding heads and the two grinding wheel shaft motors separately or in linkage, which can realize the automatic grinding cycle. It has high reliability and performance price ratio.
- ⊙ The longitudinal drive of the worktable and the vertical feed of the upper and lower grinding heads adopt AC servo motor and ball screw pair system. The grinding wheel has constant linear speed control, and the machine tool system has good stiffness and high precision.
- ⊙ The grinding wheel shaft of grinding head adopts imported high-precision preloaded group angular contact ball bearing.
- ⊙ The grinding wheel is trimmed with diamond roller. The grinding wheel dresser is installed on the worktable and can trim the grinding wheels of the lower and upper grinding heads respectively. Ensure the symmetry of the upper and lower forming surfaces of the grinding workpiece.
- ⊙ The longitudinal linear rolling guide rail and vertical plastic coated guide rail pair adopt centralized automatic lubrication.



#### Main specifications and parameters

MODEL :		MKLD7150	
Table size (W) × (L)	mm	500 × 1000	
Max. capacity of table	kg	1000	
longitudinal movement (X axis)	Max. stroke	mm	1100
	Max. speed	mm/min	25000
Vertical feed of upper grinding head (Y1 axis)	Distance from spindle center to table	mm	550-770
	Max. speed	mm/min	500
Vertical feed of lower grinding head (Y2 axis)	Distance from spindle center to table	mm	70-300
	Max. speed	mm/min	500
Spindle	Power	kW	2 × 17 ( 28、40、52 option )
	Speed	rpm	0-3000 ( 5000 option )
	Axis jump/radial jump	mm	0.002
Grinding wheel	Size ( O.D × W × I.D )	mm	500 × (20-100) × 203mm
Cooling	Pressure	bar	> 12
	Flow	L/min	> 300
Positioning accuracy	X, Y and Z axes full closed loop)	mm	0.004/0.005
Repeat positioning accuracy	X, Y and Z axes full closed loop)	mm	0.002/0.003

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