

GW-ONE

GW-ONE Optical Curve Projection Grinder





		Item	Unit			
	Area of working plane(L*E	3)	mm	400x250		
Workbench		Longitudinal feed	mm	250		
	Amount of movement	Transverse feed	mm	150		
	Amount of movement	Minimum set unit	mm	0.0001		
		Location detection	-	Semi-closed loop		
	Ascending/descending dis	stance	mm	0~150		
	Ascending/descending sp	peed	min-1	10~500%		
		Longitudinal feed	mm	200		
	Amount of movement	Transverse feed	mm	150		
Grinding	Amount of movement	Minimum set unit	mm	0.0001		
wheel		Location detection	-	Full-closed loop		
WIICCI	Angle of release	Front angle of release	•	-2~+5		
		Transverse angle of release	• /	±10		
	Rotary angle		• /	±15		
	Screen size (L*B)		mm			
	Multiplying power		-/			
Grindina	Dimensions (outer diamete	er*breadth*inner diameter)	mm			
wheel axis	Rotating speed		min-1			
	Motor capacity		kw-p	//		
Overall volume (L*E	3*H)		mm	1730x1775x2075		
Total weight			kg	4500		
Power capacity			kva	18		
	NC			LNC		
Control	Display		inch	10.4		
device	Handwheel			2:X,Y(Z,V)		
	Pitch error compensation			Standard		
	Number of control axes			4-axis linkage (2-axis interpolation)		

The values depend on the distance and speed of ascending/descending.

High-precision high-speed motorized spindle





High-speed motorized spindle (24000min-1) for fine plane machining

High precision, speed and stability of the spindle through computerized oil-cooling

Super high-speed, high-precision grinding wheel lifting platform



500min-1 reciprocating grinding wheel lifting platform

Adjustable three degrees of freedom

Product features

The product's parts such as body, connectors and lifting platform are all high-quality HT350 castings after stress relieving by means of annealing treatment and aging treatment. Thanks to optimized design after computing based on the finite element analysis method, these castings are rigid because of their proper structural strengths and reinforcing ribs.

High accuracy in axial movements is guaranteed by THK C3 ball screws and preloaders, THK UP guide rails and full-closed 0.0001mm grating scales.

The high-precision motorized spindle has a speed of 24,000min-1.

The high-precision projection system (20X, 50X) has an ultra-long life because of energy-saving LED light sources for both transmitted light and vertical light.

The control system can improve the machining efficiency by means of 4-axis linkage (2-axis interpolation).

Thanks to its high rigidity and high precision, the product is a piece of ideal equipment for machining precision terminal molds, LED molds, SMD, precision shrapnel molds and high-precision test fixtures in the precision electronic industry and the hard alloy machining industry.





Examples of machínin





Precision digital lifting platform

It has a built-in precision guide rail for fine adjustment during ascending and descending. Its display shows the amount of movement during ascending and descending synchronously.

Super high-speed, high-precision grinding wheel workbench

Thanks to its built-in high-precision, high-resolution (0.0001mm) grating scale and full-closed loop control, it can realize super high-precision feed.

Rigid foundation bed

The newly developed foundation bed can ensure basic precision because the plate-shaped reinforcing ribs along its load-bearing direction.

Control system



It has a 10.4" display and is installed with a set of newly developed user-friendly software, it is useful for high-precision machining. It can realize 4-axis linkage (2-axis interpolation) machining and improve the machining efficiency of array patterns and batch parts.

Long-stroke, high-speed, reciprocating grinding wheel lifting platform

It has a long stroke (150mm) and a high speed (500min-1) for machining more parts. The degrees of freedom of three angles are adjustable.

High-precision, compact projection system



It can switch between 20X and 50X. It has a long life because of energy-saving LED light sources for both transmitted

light and vertical light.



Any graphic or literal content herein is subject to change without prior notice The final interpretation belongs to JUNANG Precision Equipment Limited Company



Training program

	程式宣标				相对座标				手轮中断		
i	#1		1.234	#1	#1		1.234 _x		1	234	
i	#2		1.234	#2			1.234	4	1	. 251	
i	#3	1.234		# 3	#3 1.1		1.234	u	1	45.1	
i	#4		1.234	#4			1.234	ľ		. 434	
i	#5		1.234	# 5			1.234				
i	# 6		1.234	#6			1.234		· · · · · · · · · · · · · · · · · · ·		
[Ko.	型志	21	?l		12	12		康課 福辰错误	謰	
		SO	1. 234	1.2	234	1.234		1.234	三輪門道經上		
•••		SO	1. 234	1.2	234	1.234		1.234	王脑伸着缝上		
		SO	1. 234	1.2	234	1.234		1.234	三輪直續上		
::		SO	1. 234	1.2	234	1.234		1.234	三流间一直线上		
		SO	1.234	1.2	234	1.234		1.234	三統同一直統上		
		SO	1.234	1.2	234	1.234		1.234	三統制一直統一		
		SQ	1.234	1.2	234	1.234		1.234	王統相一直經上		
		SO	1. 234	1.2	234	1.234		1.234	三統同一直线上		
		SO	1. 234	1.2	234	1.234		1.234	三輪自一直經上		
		SO	1. 234	1.2	234	1.234		1.234	三族相一直线上		

Compile the machining program on the magnification film: use the grinding wheel tip to follow the shape changes on the magnification film and record the movements. It does not need complicated computation or the NC language programming.

Angle function

程	式座标		柯	的这种		转晰	
41 12	1	.234 .234	#1 #2	1.23	X		1.234
13 14	1	.234 .234	13 14	1.23	Y		1.234
15 16	1	.234 .234	<u>お</u> - 私	1.23			
江速度	1.22	1					
起点	1.23	×	1.534	角度 23 ····	İ	終異	(X,Y)
我上	1.23	4	1.234				
貢展し	 貢買2		 角座	角影 …	_	觸	
1.234	1.234	1.234	1.234	1.234	覟)	(Y)	

Eight kinds of conical machining can be realized just with the X-axis handwheel. During conical machining without angle indication, instruction with any two points on the original drawing can make the machining easy. Another method is to enter corresponding values. These are very useful during grinding wheel angle formation and manual conical machining.



Arc function

程式庫标			相对空标			手船牛新		
ŧ1	0.	.1234 #1			0.1234	v		0 1234
#2	0.	.1234 #2			0.1234	۸		V.1204
# 3	0.	.1234 #3			0.1234	υ		0 1024
#4	0.	.1234 #4	4 0.1234			r 0.1234		
ŧS	0.	.1234 #5			0.1234			
#6	0.	.1234 #6			0.1234			
加速	6 0.1234							
	2	?		ž	ï	Ĭ		·
鲍东	1.12%	1.1234	:	0.1234	0.1234		v中間3	€ (X,Y)
中间表	1.12%	1.12%	5	0.1234	0.1234			
浅島	1.12%	1.1234	3	0.1234	0.1234			<u>)</u>
:			4	0.1234	0.1234			差點 (X,Y)
E 6123	¢ 0.1234	0.1234	5	0.1234	0.1234			
						趣	έ(Χ.Υ)	

Automatic computing of center line radius and direction can be realized through demonstration of three points on the arc on the original drawing. Manual machining with R value can be realized just with the X-axis handwheel. Another method is to enter corresponding values.

4-axis linkage

建加	痱		权控制	ź		手的中断			
#1	#1 1.234 #2 1.234			1.234	X	X 1.234			
43 1.234 44 1.234		#3 #4		1.234	Y	1.234			
45 46	1.234	15 16		1.234	****				
教習式相 名	1236						********		
本工22度 刊9注筆1號	123	锁注制	1234	l m'ris			********		
	1234		1234	n'iii	40045	*********	*******		
SHULTER	1234				て大きた中心				
本工系数 1等距離移量	12%				****				

If the multi-segment machining mode is chosen, enter number of the machining segments, namely times to call the subprogram, execute machining based on equidistant offset along the U axis, or by entering points along the U and V axes, recording the times to call the subprogram during locating of the U and V axes, the non-equidistant multi-segment machining along the U axis can be performed.



SUZHØUGÓODWILL Machinery Equipment

SUZHOU GOODWILL MACHINERY EQUIPMENT CO., LTD.

Add:No.21 Xiexin Road,New District, Suzhou City, China Tel:+86-0512-65580060 E-mail: info@goodwillme.cn Web: www.goodwillma.com