

PCD ARTIFICIAL DIAMOND DISCHARGE GRINDING MACHINE

Basic Functions

MEASUREMENT

- Automatic copying function for graphite diameter.
- Automatic copying function for dresser.
- Automatic setup function for C-axis stylus.
- Graphite electrode copying function.

SAFETY DEVICES

- Automatic extinguishing function.
- Anti-fire detecting function.
- Automatic oil cooling function.
- Fully enclosed splash guard with interlock function.

FILTER CAPACITY 500L ± 5%

Machining Functions

- C-axis positioning for automatic machining function.
V-Cutter, Edge-trimming cutter
- C-axis rotation machining function.
Diamond & CBN internal grinding mounted wheels

- X-axis side orbital cut function
Glass fiber cutter, Carbon fiber cutter




Machine Specification

- Low power consumption PENTIUM-266 industrial grade master board.
- 15" TFT LCD monitor.
- Rigid FC-30 structure with traveling column
- X-axis travel: resolution
- Y-axis travel: resolution
- Z-axis travel: resolution
- C-axis resolution: 10000 indexing on a circumference
- S-axis: 0-1000 rpm/750W
- A-axis: manual positioning
- B-axis: manual positioning
- Machine weight : 2000 kgs
- Machine dimensions : 2000 x 2000 x 2300 (mm)
- Electrode for grinding wheel (S-axis) 1 set
Grinding wheel (C-axis) 1 set
- A/B-axis. Manual rotating head 1 set
- Fully enclosed splash guard
- Ventilation hole
- Two sets of extinguisher
- Electrode dresser holder
- Reference ball for workpiece copying
- Accuracy test report
- 20 μ and 10 μ filter core
- Vertical cooler

Special Device

- Manual A / B-axis
- 5-axis copying optical edge finder
- Cutter device fixed on C-axis
- Graphite electrode of the S-axis device

Machine monitor page											
MODE: JOG MDI			TIMER:00:00:00			SPARK FILE:			TIME:16:23:27		
MACHINE: 0 0.000 A 1.000			TOUCH			T-RST			T-SPARK		
X+	1.000		M1	-	-	-					
Y+	2.000		M2	-	-	-					
Z+	9.290		M3	-	-	-					
C+	4.000		M4	-	-	-					
MACHINE FEEDRATE			M5	-	-	-					
X	1.000	F	0.000/min	M6	-	-					
Y	1.990	G	200 X	M7	-	-					
Z	9.287	MFG	RAPID X	M8	-	-					
C	3.999			M9	-	-					
X WIDTH	9.000			M10	-	-					
TOOTH	20.000			M11	-	-					
TRIM	0.000			M12	-	-					
MSG: 1:C AXIS INDEX EDM 2:X AXIS EDM 3:C AXIS ROTATE											
1 DIA	2 DRES	3 WORK	4 FILE	5 Z	6 X	7 PROB	8 XDR	9 X	10 X		
EDGE	EDGE	EDGE	EDGE	TRIM	CENT	POS	EDGE	TRIM	EDGE		
PAGE: 1 OFFSET X: 0.000 OFFSET Y: 0.000			PATTERN: 1								
SAFE TOP			EDM TOP			WORK			NEXT PROG		
10.000			1.000			1: LINEAR			2: CIRCULAR		
MSG: 1:C AXIS INDEX EDM 2:X AXIS EDM 3:C AXIS ROTATE											
1 DEP	2 FILE	3 SAFE	4 EDM	5 WORK	6 SAVE	7 MOLD	8 PNT	9 PMP	NEXT PAGE		
TABL	LIST	TOP	TOP	TYPE		FORM	RECL	-R-			

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