

Asahi-Seiki Manufacturing Co., Ltd.

USF-PC1



CNC SPRING FORMING MACHINE

GREAT ADVANTAGE IN FORMING SQUARE WIRE
TOOLS ROTATE WITH NO TWISTING OF WIRE

CNC UNIVERSAL SPRING FORMER **USF-PC1**



Universal Forming Unit

Feature

Less tools and short setup time owing to UFU(Universal Forming Unit) that can form wire from any angle.

SPECIFICATIONS

Wire diameter (mm)	φ 0.15 ~ 0.8	
Spring index (D/d)	4 or more	
Control unit	Simultaneous control by personal computer (Max. 8 axes)	
	Main CPU	OS: Windows-2000
	Control CPU	OS: MS-DOS
External memory unit	CF card	
Display	15.1 inch TFT color liquid crystal monitor	
External dimensions (mm)	Height	2000
	Width	700
	Depth	1550
Weight (approx./kg)	1000	

AXIS CONSTRUCTION

EXAMPLE OF AXIS CONSTRUCTION

Axis	Use	Max. speed	Motor capacity (kW)
Z	Wire feed	130 m/min	0.75
C	Cam axis	300 rpm	0.75
I	Universal quill	750 rpm	0.75
U	Universal forming unit(rotation)	600 rpm	0.75
K	Universal forming unit(forming)	600 rpm	0.75
W	Universal forming unit (forward-backward)	30 m/min	0.75
X	Curling slide	750 rpm	0.75
Y	Servoslide	600 rpm	0.75
A	2nd hook forming unit(hooking)	300 rpm	0.75
B	2nd hook forming unit (transferring)	300 rpm	0.75

TOOL CHART

Name	Wire dia. (mm)															
	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8		
Feed roll	Without groove 1 With groove 1		Without groove 1 With groove 1		2		2		2		2		2			
Quill liner (pair)	1		1		1		1		1		1		1			
Quill	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mandrel - right	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mandrel - left	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Universal body tool - right	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Universal body tool - left	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Universal forming tool - carbide pin type	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Universal forming tool - tool steel										1						
Cut off tool										2						

MACHINE CONSTITUTION

STANDARD ACCESSORIES			OPTION		
Universal forming unit	1set	Universal quill	Additional standard forming slide	Additional hook alignment device	
Standard forming slide	2sets	Hook alignment device	Curling slide	Products ejecting device	
Wire feeding section		Operation tool	Servo slide	Universal curling head	
Cam axis driving section			2nd hook forming unit		

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