

Asahi-Seiki Manufacturing Co., Ltd.

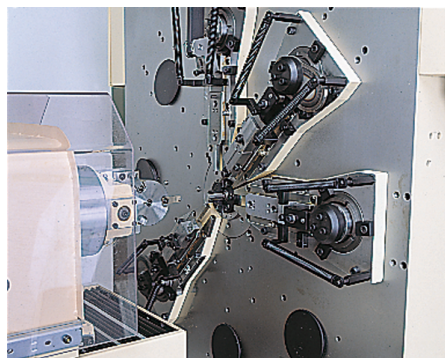
# USF-PC1



## 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)	φ0.15 ~ 0.8		
Spring index (D/d)	4 or more		
External memory unit	USB Connector		
Display	Liquid-Crystal color 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					
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

Universal forming unit 1set	Universal quill
Standard forming slide 2sets	Hook alignment device
Wire feeding section	Operation tool
Cam axis driving section	

### OPTION

Additional standard forming slide	Additional hook alignment device
Curling slide	Products ejecting device
Servo slide	Universal curling head
2nd hook forming unit	



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