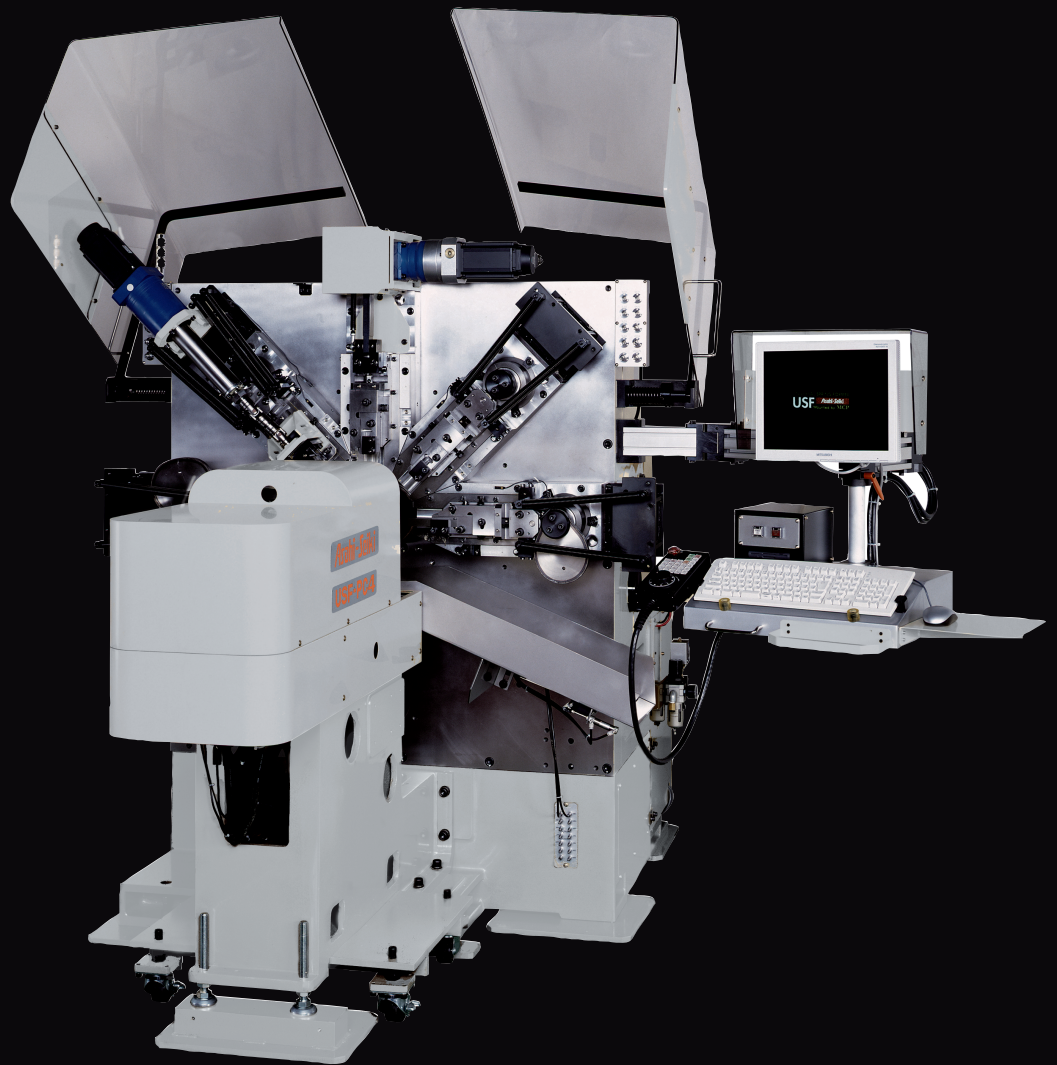


Asahi-Seiki Manufacturing Co., Ltd.

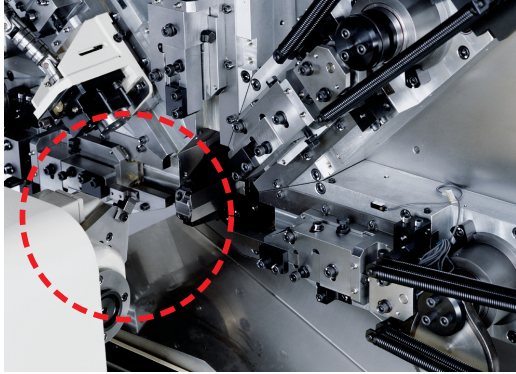
# USF-PC4



## **CNC SPRING FORMING MACHINE**

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

# CNC UNIVERSAL SPRING FORMER **USF-PC4**



## 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)	$\phi 1.0 \sim 4.0$	
Spring index (D/d)	4 or more	
External memory unit	USB Connector	
Display	Liquid-Crystal color monitor	
External dimensions (mm)	Height	2200
	Width	2050
	Depth	2500
Weight (approx./kg)	3100	

### AXIS CONSTRUCTION

#### EXAMPLE OF AXIS CONSTRUCTION

Axis	Use	Max. speed	Motor capacity (kW)
Z	Wire feed	70 m/min	3.5
C	Cam axis	75 rpm	3.5
I	Universal quill	300 rpm	2.0
U	Universal forming unit(rotation)	75 rpm	2.0
K	Universal forming unit(forming)	75 rpm	2.0
W	Universal forming unit (forward-backward)	30 m/min	2.0
X	Curling slide	200 rpm	2.0
Y	Servoslide	100 rpm	2.0
A	2nd hook forming unit(hooking)	100 rpm	2.0
B	2nd hook forming unit (transferring)	100 rpm	2.0

### TOOL CHART

Name	Wire dia. (mm)	Wire dia. (mm)																
		1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.2	3.5	3.5	4.0	
Feed roll		2		2		2		2		4		4		4		4		4
Guide liner (pair)		—		—		—		—		1		1		1		1		1
Quill liner (pair)		1		1		1		1		1		1		1		1		1
Middle liner (pair)		1		1		1		1		1		1		1		1		1
Quill		1	1	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	1	—	1
Mandrel - left		1	1	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	1	—	1
Universal body tool - left		1	1	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	1	—	1
Universal forming tool - tool steel		1																
Cut off tool		2																

### MACHINE CONSTITUTION

#### STANDARD ACCESSORIES

Universal forming unit	1set
Standard forming slide	2sets
Wire feeding section	
Cam axis driving section	

Universal quill
Hook alignment device
Operation tool

#### 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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