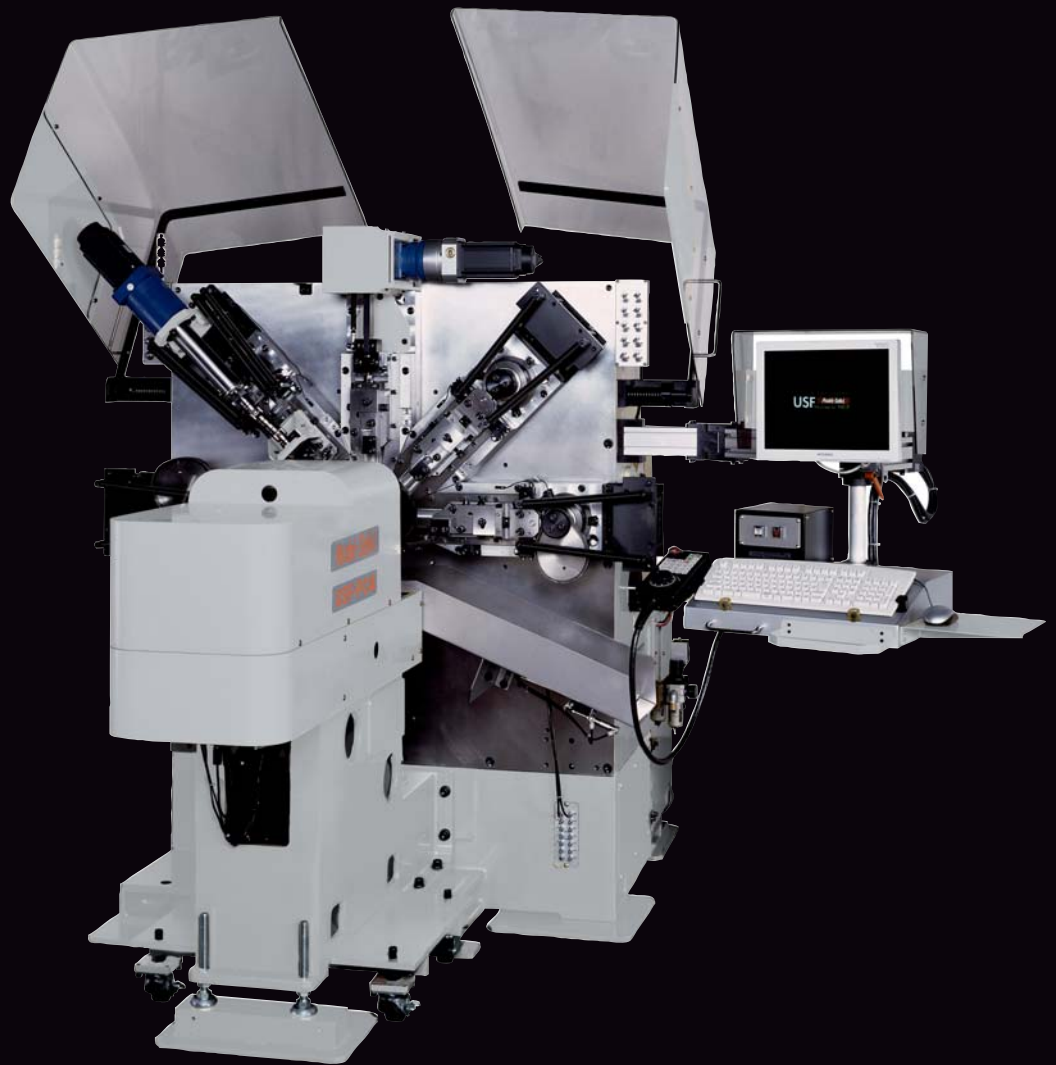


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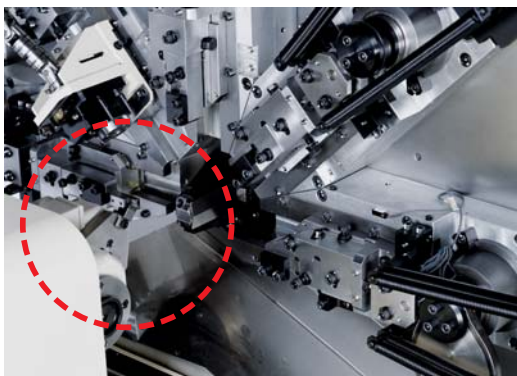
USF-P04



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)	ϕ 1.0 ~ 4.0	
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	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)	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	
Guide liner (pair)	—		—		—		—		1		1		1		1	
Quill liner (pair)	1		1		1		1		1		1		1		1	
Middle liner (pair)	1		1		1		1		1		1		1		1	
Quill	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
Mandrel - left	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
Universal body tool - left	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
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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