

Asahi-Seiki Manufacturing Co., Ltd.

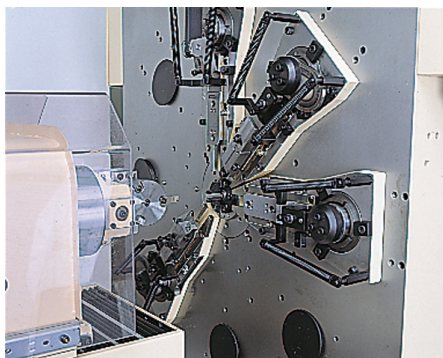
USF-PC1



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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