

Transworld
Engineering Ltd



Catalogue

PROVIDING SPRING MACHINERY
ACROSS EUROPE SINCE 2009

Founded in 2009, **Transworld Engineering Ltd.** aims to become a point of reference for all European companies for spring production and wire processing, providing manufacturing solutions through the sale of high-quality machinery and ensuring excellent engineering support throughout the life of its products, thus helping spring makers to manufacture parts in-house.

We at Transworld are spring machinery specialists, distributing to and supporting companies across Europe. We provide manufacturing machinery, including CNC coiling machines and CNC wire forming machine, automatic decoilers, heat treatment, grinding and testing machinery, and high-quality tooling. As experts in spring manufacturing, we are proud to offer expert advice, engineering support and quality aftercare, keeping the machines we sell running smoothly.

Haven't found exactly what you are looking for?
Contact us at **sales@transworldengineering.co.uk** and we will find the right solution for you!

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Coiling Machines

COILING MACHINES FROM 0.07 TO 26MM WIRE
RANGING FROM 2 TO 9 AXIS



2 Axis CNC Micro Spring Coiling Machine

MODEL	TWE-203
Number of Axis	2
Wire Diameter	Ø 0.15-0.3mm
Max Outside Diameter	Ø 20mm
Max Feed Length	Unlimited
Max Feed Speed	150m/min
Feeding Rollers Pairs	1
Max Production Rate	400pcs/min
Wire Feeding Motor	1.0kw
Cam Motor	1.0kw
Dimension of machine (L x W x H)	900 x 1000 x 1500mm
Weight of machine	350kg

FEATURES

- 2 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge





2 Axis CNC Micro Spring Coiling Machine

MODEL	TWE-208
Number of Axis	2-3
Wire Diameter	Ø 0.07-0.8mm
Max Outside Diameter	Ø 20mm
Max Feed Length	Unlimited
Max Feed Speed	150m/min
Feeding Rollers Pairs	1
Max Production Rate	400pcs/min
Wire Feeding Motor	1.0kw
Cam Motor	1.0kw
Dimension of machine (L x W x H)	900 x 1000 x 1500mm
Weight of machine	350kg

FEATURES

- 2 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment
- Optional Tension Device





2 Axis CNC Spring Coiling Machine

MODEL	TWE-212
Number of Axis	2
Wire Diameter	Ø 0.3-1.2mm
Max Outside Diameter	Ø 22mm
Max Feed Length	Unlimited
Max Feed Speed	220m/min
Feeding Rollers Pairs	2
Max Production Rate	350pcs/min
Wire Feeding Motor	0.85kw
Cam Motor	0.85kw
Dimension of machine (L x W x H)	900 x 1150 x 1500mm
Weight of machine	600kg

FEATURES

- 2 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment





2 Axis CNC Spring Coiling Machine

MODEL	TWE-230	FEATURES
Number of Axis	2	2 Axis High Speed Coiler
Wire Diameter	Ø 0.8-3.0mm	Japanese Servo Motor
Max Outside Diameter	Ø 70mm	Taiwanese Controller
Max Feed Length	Unlimited	Repeat Function
Max Feed Speed	120m/min	Teach/Edit
Feeding Rollers Pairs	2	Test Function
Wire Feeding Motor	2.7 kw	Optional Spring Length Gauge
Cam Motor	2.7 kw	Optional Camera Gauge
Dimension of machine (L x W x H)	1150 x 1300 x 1750mm	Optional Torsion Attachment
Weight of machine	1200kg	





3 Axis Micro Spring Coiling Machine

MODEL	TWE-308
Number of Axis	3
Wire Diameter	Ø 0.15-0.8mm
Max Outside Diameter	Ø 20mm
Max Feed Length	Unlimited
Max Feed Speed	150m/min
Feeding Rollers Pairs	1
Max Production Rate	400pcs/min
Wire Feeding Motor	1.0kw
Cam Motor	1.0kw
Pitch Motor	0.4kw
Dimension of machine (L x W x H)	900 x 1000 x 1500mm
Weight of machine	350kg

FEATURES

- 3 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment





3 Axis CNC Spring Coiling Machine

MODEL	TWE-312
Number of Axis	3
Wire Diameter	Ø 0.3-1.2mm
Max Outside Diameter	Ø 22mm
Max Feed Length	Unlimited
Max Feed Speed	220m/min
Feeding Rollers Pairs	2
Max Production Rate	350pcs/min
Wire Feeding Motor	0.85kw
Cam Motor	0.85kw
Pitch Motor	0.4
Dimension of machine (L x W x H)	900 x 1150 x 1500mm
Weight of machine	600kg

FEATURES

- 3 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment



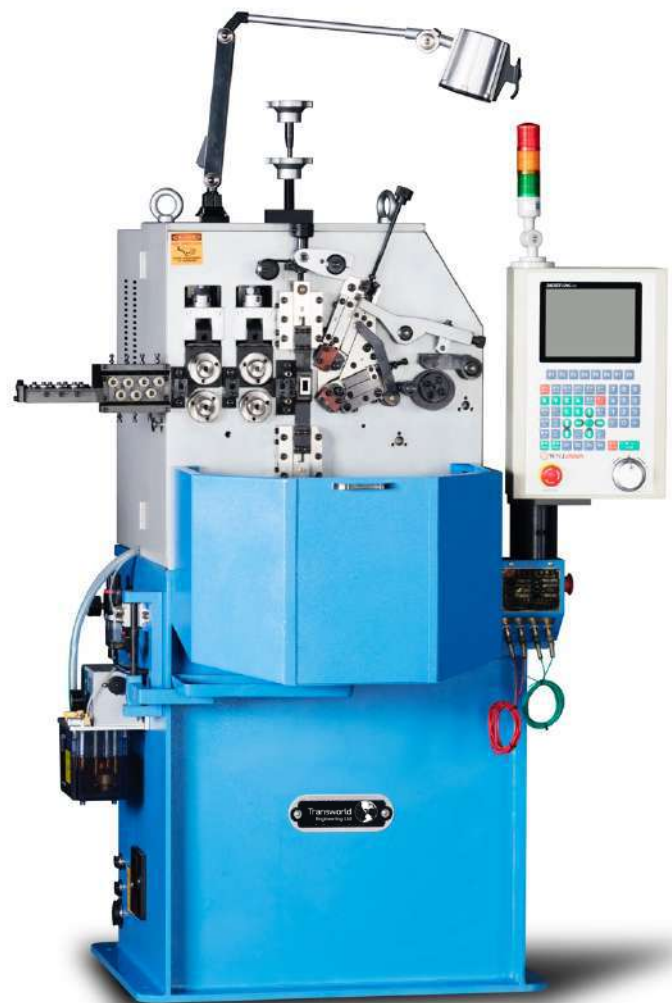


3 Axis CNC Spring Coiling Machine

MODEL	TWE-316	TWE-320
Number of Axis	3	3
Wire Diameter	Ø 0.3-1.6mm	Ø 0.5-2.0mm
Max Outside Diameter	Ø 30mm	Ø 40mm
Max Feed Speed	100m/min	100 m/min
Max Feed Value	+0.01 - ± 9999.99mm	
Cam Instruction Value	+0.1°± 359.9°	
Wire Feed Servo Motor	1.5 kw	2.7 kw
Cam Servo Motor	1.5 kw	2.7 kw
Pitch Servo Motor	0.4 kw	0.4 kw
Dimension of machine (L x W x H)	1000 x 960 x 1605mm	1200 x 1020 x 1660mm
Weight of machine	460kg	580kg

FEATURES

- 3 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach / Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment



TWE-330 / 335 / 340

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3 Axis CNC Spring Coiling Machine

MODEL	TWE-330	TWE-335	TWE-340
Number of Axis	3	3	3
Wire Diameter	Ø 0.8-3.0mm	Ø 1.5-3.5mm	Ø 1.5-4.0mm
Max Outside Diameter	Ø 70mm	Ø 50mm	Ø 65mm
Max Feed Speed	120m/min	100m/min	127m/min
Wire Feed Servo Motor	2.7kw	5.5kw	4.5kw
Cam Servo Motor	2.7kw	5.5kw	2.7kw
Pitch Servo Motor	0.75kw	1.0kw	N/A
Dimension of machine (L x W x H)	1150 x 1300 x 1750mm	1580 x 1200 x 1850mm	1665 x 1400 x 1800mm
Weight of machine	1200kg	1060kg	1500kg

FEATURES

3 Axis High Speed Coiler

Japanese Servo Motor

Taiwanese Controller

Repeat Function

Teach / Edit

Test Function

Optional Spring Length Gauge

Optional Camera Gauge

Optional Torsion Attachment





4 Axis CNC Spring Coiling Machine

MODEL	TWE-416
Number of Axis	4
Wire Diameter	Ø 0.3-1.6mm
Max Outside Diameter	Ø 30mm
Max Feed Length	Unlimited
Max Feed Speed	125m/min
Feeding Rollers Pairs	2
Wire Feeding Motor	2.0kw
Cutter Motor	1.0kw
Outside Diameter Motor	1.0kw
Pitch Motor	1.0kw
Dimension of machine (L x W x H)	900 x 1100 x 1800mm
Weight of machine	600kg

FEATURES

- 4 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment



5 Axis CNC Spring Coiling Machine

MODEL	TWE-530
Number of Axis	5
Wire Diameter	Ø 0.8-3.0mm
Max Outside Diameter	Ø 70mm
Max Feed Length	Unlimited
Max Feed Speed	120m/min
Feeding Rollers Pairs	2
Wire Feeding Motor	2.7 kw
Cam Motor	2.7 kw
Pitch Servo Motor	1.0kw
Upper Cutter Motor	0.75 kw
Lower Cutter Motor	0.75kw
Dimension of machine (L x W x H)	1150 x 1300 x 1750mm
Weight of machine	1200kg

FEATURES

- 5 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Optional Spring Length Gauge
- Optional Camera Gauge
- Optional Torsion Attachment





5 Axis CNC Spring Coiling Machine

MODEL	TWE-545
Number of Axis	5
Wire Diameter	Ø 1.6-4.0mm
Max Outside Diameter	Ø 80mm
Max Feed Speed	96m/min
Feeding Rollers Pairs	3
Wire Feed Servo Motor	5.5 kw
Cam Motor	2.7 kw
Pitch Motor	1.5 kw
Upper Cutter Motor	2.7 kw
Under Cutter Motor	2.7 kw
Dimension of machine (L x W x H)	1250 x 1400 x 1850mm
Weight of machine	1900kg

FEATURES

- 5 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Rotary Cut
- Optional Spring Length Gauge
- Optional Camera Gauge





5 Axis CNC Spring Coiling Machine

MODEL	TWE-550
Number of Axis	5
Wire Diameter	Ø 1.5-5.0mm
Max Outside Diameter	Ø 65mm
Oil Quenching Line	≤ Ø 3.5mm
Wire Feed Length	Unlimited
Max Feed Speed	75m/min
Feeding Rollers Pairs	3
Wire Feed Servo Motor	15 kw
Cam Motor	4.5 kw
Pitch Servo Motor	2.0 kw
Upper Cutter Motor	4.5 kw
Lower Cutter Motor	4.5 kw
Dimension of machine (L x W x H)	2350 x 1600 x 2000mm
Weight of machine	2480kg

FEATURES
5 Axis High Speed Coiler
Japanese Servo Motor
Taiwanese Controller
Repeat Function
Teach/Edit
Test Function
Optional Spring Length Gauge
Optional Camera Gauge



7 Axis CNC Spring Coiling Machine

MODEL	TWE-760
Number of Axis	7
Wire Diameter	Ø 2.0-6.0mm
Max Outside Diameter	Ø 80mm
Oil Quenching Line	≤ Ø 5.0mm
Wire Feed Length	Unlimited
Max Feed Speed	95m/min
Coiling Direction	Left and Right
Feeding Rollers Pairs	3
Wire Feed Servo Motor	15 kw x 2
Variable Diameter Servo Motor	2.7 kw x 2
Pitch Servo Motor	2.0kw
Upper Cutter Motor	5.5 kw
Lower Cutter Motor	5.5 kw
Dimension of machine (L x W x H)	2350 x 2300 x 2060mm
Weight of machine	4020kg

FEATURES

- 7 Axis High Speed Coiler
- All axis work independently
- Right and Left Rotation
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Straight, Opposite, Torsion and Rotary Cut
- 3D Software
- Optional Spring Length Gauge
- Optional Camera Gauge



7 Axis CNC Spring Coiling Machine

MODEL	TWE-790	FEATURES
Number of Axis	7	7 Axis High Speed Coiler
Wire Diameter	Ø 3.0-9.0mm	All axis work independently
Max Outside Diameter	Ø 120mm	Right and Left Rotation
Max Feed Speed	105m/min	Japanese Servo Motor
Oil Quenching Line	≤ Ø 8.0mm	Taiwanese Controller
Feeding Rollers Pairs	4	Repeat Function
Variable Diameter Axis Motor	7 kw x 2	Teach/Edit
Pitch Axis Motor	7 kw x 2	Test Function
Wire Feed Axis Motor	28 kw x 2	Straight, Opposite, Torsion and Rotary Cut
Cutter Motor	18 kw x 2	3D Software
Core Pulling Motor	1.5 kw	Optional Spring Length Gauge
Total Power	113	Optional Camera Gauge
Dimension of machine (L x W x H)	2650 x 2800 x 2250mm	
Weight of machine	6500kg	





8 Axis CNC High Speed Spring Coiling Machine

MODEL	TWE-808
Number of Axis	8
Wire Diameter	Ø 0.15-1.0mm
Max Outside Diameter	Ø 25mm
Max Feed Speed	300m/min
Spring Index	3
Feeding Rollers Pairs	1
Wire Feeding Motor	1.8 kw
Cutter Motor	0.75 kw x 2
Cam Motor	0.4 kw x 2
Pitch Motor	0.75 kw
Mandrel: Up-Down Motor	0.75 kw
Mandrel Return Motor	0.4 kw
Dimension of machine (L x W x H)	950 x 1150 x 1700mm
Weight of machine	400kg

FEATURES

- 8 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Rotary Cut
- Optional Internal Spring Length Gauge
- Optional Camera Gauge
- Torsion Springs Achievable





8 Axis CNC High Speed Spring Coiling Machine

MODEL	TWE-816
Number of Axis	8
Wire Diameter	Ø 0.40-1.6mm
Max Outside Diameter	Ø 55mm
Max Feed Speed	200m/min
Spring Index	3
Feeding Rollers Pairs	2
Wire Feeding Motor	2.9kw
Cutter Motor	0.75kw x 2
Cam Motor	0.75kw x 2
Pitch Motor	0.75kw
Mandrel: Up-Down Motor	0.75kw
Mandrel Return Motor	0.4kw
Dimension of machine (L x W x H)	1000 x 1000 x 1700mm
Weight of machine	1000kg

FEATURES

- 8 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Rotary Cut
- Optional Internal Spring Length Gauge
- Optional Camera Gauge
- Torsion Springs Achievable





8 Axis CNC High Speed Spring Coiling Machine

MODEL	TWE-830
Number of Axis	8
Wire Diameter	Ø 1.0-3.0mm
Max Outside Diameter	Ø 70mm
Max Feed Speed	280m/min
Spring Index	3
Feeding Rollers Pairs	2
Wire Feeding Motor	4.4kw
Cutter Motor	1.3kw x 2
Cam Motor	0.85kw x 2
Pitch Motor	0.75kw
Mandrel: Up-Down Motor	1.0kw
Mandrel Return Motor	0.75kw
Dimension of machine (L x W x H)	1000 x 1400 x 1900mm
Weight of machine	1200kg

FEATURES

- 8 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- Rotary Cut
- Optional Internal Spring Length Gauge
- Optional Camera Gauge
- Torsion Springs Achievable





5 Axis CNC Spring Coiling Machine

MODEL	TWE-5120	FEATURES
Number of Axis	5	5 Axis High Speed Coiler
Wire Diameter	Ø 6.0-12.0mm	Japanese Servo Motor
Max Outside Diameter	Ø 150mm	Taiwanese Controller
Oil Quenching Line	≤ Ø 10.0	Repeat Function
Wire Feed Length	Unlimited	Teach/Edit
Max Feed Speed	58m/min	Test Function
Feeding Rollers Pairs	5	3D Software
Coiling Direction	Left and Right	Straight, Opposite, Torsion Cut
Wire Feed Servo Motor	30kw	Optional Spring Length Gauge
Cam Motor	11.0kw	Optional Camera Gauge
Pitch Servo Motor	4.5kw	
Upper Cutter Motor	15kw	
Lower Cutter Motor	15kw	
Dimension of machine (L x W x H)	5000 x 2200 x 2500mm	
Weight of machine	12500kg	



8 Axis CNC Spring Coiling Machine

MODEL	TWE-8120
Number of Axis	8
Wire Diameter	Ø 6.0-12.0mm
Max Outside Diameter	Ø 180mm
Oil Quenching Line	≤ Ø 12
Wire Feed Length	Unlimited
Max Feed Speed	100m/min
Feeding Rollers Pairs	5
Coiling Direction	Left and Right
Wire Feed Servo Motor	10 kw x 4
Mandrel In-Out Motor	2.7 kw
Variable Diameter Motor	8 kw x 2
Pitch Servo Motor	8 kw
Upper Cutter Motor	30 kw
Lower Cutter Motor	30 kw
Dimension of machine (L x W x H)	3800 x 2500 x 2700mm
Weight of machine	16500kg

FEATURES

- 8 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- 3D Software
- Straight, Opposite, Torsion Cut
- Optional Spring Length Gauge
- Optional Camera Gauge





5 Axis CNC Spring Coiling Machine

MODEL	TWE-5160
Number of Axis	5
Wire Diameter	Ø 8.0-16.0mm
Max Outside Diameter	Ø 250mm
Oil Quenching Line	≤ Ø 13.5
Wire Feed Length	Unlimited
Max Feed Speed	50m/min
Feeding Rollers Pairs	5
Coiling Direction	Left and Right
Wire Feed Servo Motor	37kw
Cam Motor	11.0kw
Pitch Servo Motor	4.5kw
Upper Cutter Motor	30kw
Lower Cutter Motor	30kw
Dimension of machine (L x W x H)	5950 x 3100 x 2700mm
Weight of machine	16800kg

FEATURES

- 5 Axis High Speed Coiler
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- 3D Software
- Straight, Opposite, Torsion Cut
- Optional Spring Length Gauge
- Optional Camera Gauge



5 Axis CNC Spring Coiling Machine

MODEL	TWE-5200
Number of Axis	5
Wire Diameter	Ø 12.0-20.0mm
Max Outside Diameter	Ø 260mm
Oil Quenching Line	≤ Ø 16
Wire Feed Length	Unlimited
Max Feed Speed	31.5-49m/min
Feeding Rollers Pairs	5
Coiling Direction	Left and Right
Wire Feed Servo Motor	55kw
Cam Motor	15.0kw
Pitch Servo Motor	7kw
Upper Cutter Motor	30kw
Lower Cutter Motor	30kw
Dimension of machine (L x W x H)	6400 x 3300 x 2900mm
Weight of machine	23000kg

FEATURES
5 Axis High Speed Coiler
Japanese Servo Motor
Taiwanese Controller
Repeat Function
Teach/Edit
Test Function
3D Software
Straight, Opposite, Torsion Cut
Optional Spring Length Gauge
Optional Camera Gauge





7 Axis CNC Spring Coiling Machine

MODEL	TWE-7200
Number of Axis	7
Wire Diameter	Ø 9.0-20.0mm
Max Outside Diameter	Ø 260mm
Oil Quenching Line	≤ Ø 17.5
Variable Diameter	Ø 9.0mm
Wire Feed Length	Unlimited
Max Feed Speed	87m/min
Feeding Rollers Pairs	6
Coiling Direction	Left and Right
Wire Feed Servo Motor	15 kw x 6
Variable Diameter Motor	16 kw x 2
Pitch Servo Motor	11 kw
Upper Cutter Motor	42 kw
Lower Cutter Motor	42 kw
Dimension of machine (L x W x H)	6800 x 4000 x 3000mm
Weight of machine	33000kg

FEATURES

Controlled by 12 Servo Motors (6 for wire feed)

7 Axis as standard: wire feed, pitch, upper cut, lower cut, upper coiling point, lower coiling point & variable diameter control

Straight, Opposite, Torsion Cut

Easy change from left & right hand coiling direction

3D CNC Programming versatile and easy operation

Optional Spring Length Gauge

Optional Camera Gauge



7 Axis CNC Spring Coiling Machine

MODEL	TWE-7230
Number of Axis	7
Wire Diameter	Ø 12.0-23.0mm
Max Outside Diameter	Ø 260mm
Oil Quenching Line	≤ Ø 19
Variable Diameter	Ø 9mm
Wire Feed Length	Unlimited
Max Feed Speed	65m/min
Feeding Rollers Pairs	6
Coiling Direction	Left and Right
Wire Feed Servo Motor	16 kw x 6
Variable Diameter Motor	16 kw x 2
Pitch Servo Motor	16 kw
Upper Cutter Motor	54 kw
Lower Cutter Motor	54 kw
Dimension of machine (L x W x H)	6800 x 4000 x 3000mm
Weight of machine	33500kg

FEATURES

Controlled by 12 Servo Motors (6 for wire feed)

7 Axis as standard: wire feed, pitch, upper cut, lower cut, upper coiling point, lower coiling point & variable diameter control

Straight, Opposite, Torsion Cut

Easy change from left & right hand coiling direction

3D CNC Programming versatile and easy operation

Optional Spring Length Gauge

Optional Camera Gauge

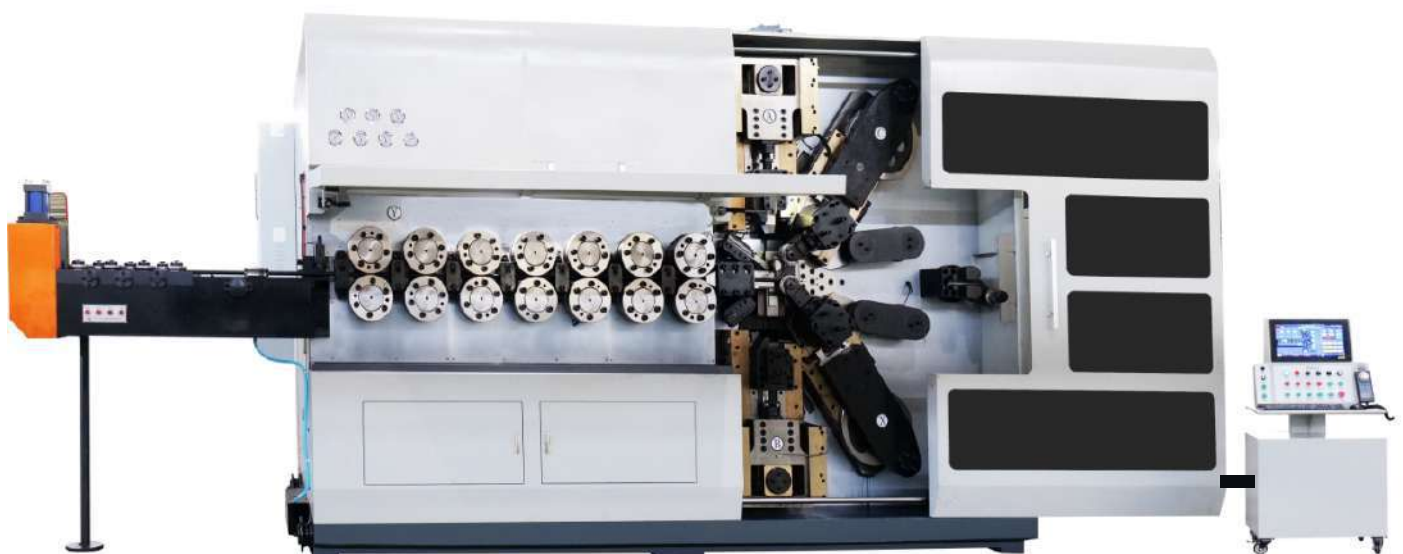


9 Axis CNC Spring Coiling Machine

MODEL	TWE-9260
Number of Axis	9
Wire Diameter	Ø 16.0-26.0mm
Max Outside Diameter	Ø 260mm
Oil Quenching Line	≤ Ø 22
Wire Feed Length	Unlimited
Max Feed Speed	60m/min
Feeding Rollers Pairs	7
Coiling Direction	Left and Right
Wire Feed Servo Motor	23 kw x 7
Mandrel In-Out Motor	4.4 kw
Variable Diameter Motor	22 kw x 2
Variable Diameter Movable	10 kw x 2
Pitch Servo Motor	23 kw
Upper Cutter Motor	80 kw
Lower Cutter Motor	80 kw
Dimension of machine (L x W x H)	7300 x 4000 x 3100mm
Weight of machine	38000kg

FEATURES

- 9 Axis High Speed Coiler
- 7 Independent Wire Feeding Motors
- Japanese Servo Motor
- Hust Taiwanese Controller
- Repeat Function
- Teach/Edit
- Test Function
- 3D Software
- Straight, Opposite, Torsion Cut
- Optional Spring Length Gauge
- Optional Camera Gauge



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Wire Formers

WIRE FORMING MACHINES FROM 0.2 TO 8MM WIRE
RANGING FROM 3 TO 12 AXIS



3/4 Axis CNC Versatile Spring Forming Machine

MODEL	TWE - 20B	TWE - 40W
Number of Axis	3 - 4	3 - 4
Wire Diameter	Ø 0.2 - 2.0mm	Ø 1.2 - 4.0mm
Max Outside Diameter	Ø 50mm	Ø 80mm
Max Feed Length	Unlimited	Unlimited
Max Feed Speed	110m/min	110m/min
Cam Instruction Value	+0.1°± 359.9°	
Max production Rate	70 pcs/min	60 pcs/min
Wire Feed Servo Motor	2.7 kw	5.5 kw
Cam Motor	2.7 kw	4.5 kw
Quill Servo Motor	1.0 kw	1.0 kw
Dimension of machine (L x W x H)	800 x 1100 x 1750mm	1000 x 1300 x 1900mm
Weight of machine	1200kg	2000kg

FEATURES

- 3 - 4 Axis Versatile Spring Former
- Japanese Servo Motor
- Taiwanese Controller
- Repeat Function
- Teach / Edit
- Test Function
- No Rotating Wire
- Optional Servo Spinner





5 Axis CNC Spring Forming Machine

MODEL	TWE-520wz	TWE-540wz	TWE-550wz
Number of Axis	5	5	5
Wire Diameter	Ø 0.3-2.0mm	Ø 1.2-4.0mm	Ø 2.0-5.0mm
Max Outside Diameter	Ø 100mm	Ø 80mm	Ø 120mm
Max Feed Length	Unlimited	Unlimited	Unlimited
Max Feed Speed	120m/min	120m/min	52m/min
Wire Feed Servo Motor	2.9 kw	4.5 kw	11kw
Wire Rotation Servo Motor	2.9 kw	4.5 kw	4.5 kw
Cam Servo Motor	1.3 kw	2.7 kw	11kw
Quill Servo Motor	0.75 kw	1.8 kw	1kw
Spinner Servo Motor	0.4 kw	1.0kw	1.5kw
Dimension of machine (L x W x H)	1450 x 1250 x 1800mm	2400 x 1700 x 1900mm	2100 x 2750 x 2100mm
Weight of machine	1500kg	2500kg	5000kg

FEATURES

5-6 Axis Wire Rotating Machine

Japanese Servo Motor

Taiwanese Controller

USB Port

Repeat

Test/Edit

Test Function

Angle Setting for Cam, Quill and Servo Spinner

Optional Servo Spinner



TWE-1025

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10 Axis Camless CNC Versatile Spring Forming Machine

MODEL	TWE-1025	FEATURES
Number of Axis	10	10 Axis Spring Forming Machine
Wire Diameter	Ø 0.2-2.5mm	All axis independent
Feeding Rollers Pairs	2	Japanese Servo Motor
Max Feed Speed	120m/min	Taiwanese Controller
Wire Feed Servo Motor	2.7kw	Remote Monitoring
Quill Servo Motor	0.75kw	Test Function
Slide Servo Motor	0.85kw x 8	Optional Servo Spinner
Spinner Servo Motor	0.4kw	Optional Lateral Movement Arm
Dimension of machine (L x W x H)	1100 x 1400 x 1900mm	Optional Robot
Weight of machine	1300kg	





12 Axis Camless CNC Versatile Spring Rotating Forming Machine

MODEL	TWE-1220
Number of Axis	12
Wire Diameter	Ø 0.3-2.0mm
Feeding Rollers Pairs	2
Total Power	13.75kw
Wire Feed Servo Motor	2.9kw
Rotary Wire Servo Motor	2.9kw
Slide Servo Motor	0.85kw x 8
Quill Servo Motor	0.75kw
Spinner Servo Motor	0.4kw
Dimension of machine (L x W x H)	1600 x 1200 x 1750mm
Weight of machine	1500kg

FEATURES

- 18 Axis Maximum
- All axis independent
- Japanese Servo Motor
- Taiwanese Controller
- Remote Monitoring
- Test Function
- Optional Servo Spinner
- Optional Super Spinner
- Optional Robot





12 Axis Camless CNC Versatile Spring Rotating Forming Machine

MODEL	TWE-NM1220X
Number of Axis	12
Wire Diameter	Ø 0.3-2.0mm
Feeding Rollers Pairs	2
Max Feed Speed	120m/min
Wire Feed Servo Motor	2.9 kw
Quill Servo Motor	1.0 kw
Wire Rotation Servo Motor	2.7 kw
Slide Servo Motor - Vertical	1.2 kw x 4
Slide Servo Motor - Lateral	1.0 kw x 4
Spinner Servo Motor	0.4 kw
Dimension of machine (L x W x H)	1600 x 1120 x 1750mm
Weight of machine	1500kg

FEATURES

- 18 Axis Maximum
- Japanese Servo Motor
- Taiwanese Controller
- Test Function
- Remote Monitoring
- Optional Servo Spinner
- Optional Super Spinner
- Optional Robot





12 Axis Camless CNC Versatile Spring Rotating Forming Machine

MODEL	TWE-1245
Number of Axis	12
Wire Diameter	Ø 1.2-4.5mm
Max Outside Diameter	Ø 120mm
Feeding Rollers Pairs	3
Spring Index	4
Max Feed Speed	120 m/min
Wire Feed Servo Motor	4.4 kw
Slide Servo Motor	1.8 kw x 8
Wire Rotation Servo Motor	4.4 kw
Spinner Motor	1 kw
Quill Servo Motor	1.3 kw
Dimension of machine (L x W x H)	2700 x 2000 x 1900mm
Weight of machine	5000kg

FEATURES

- 18 Axis Maximum
- All axis independent
- Japanese Servo Motor
- Taiwanese Controller
- Test Function
- Remote Monitoring
- Optional Servo Spinner
- Optional Bending Station
- Optional Robot



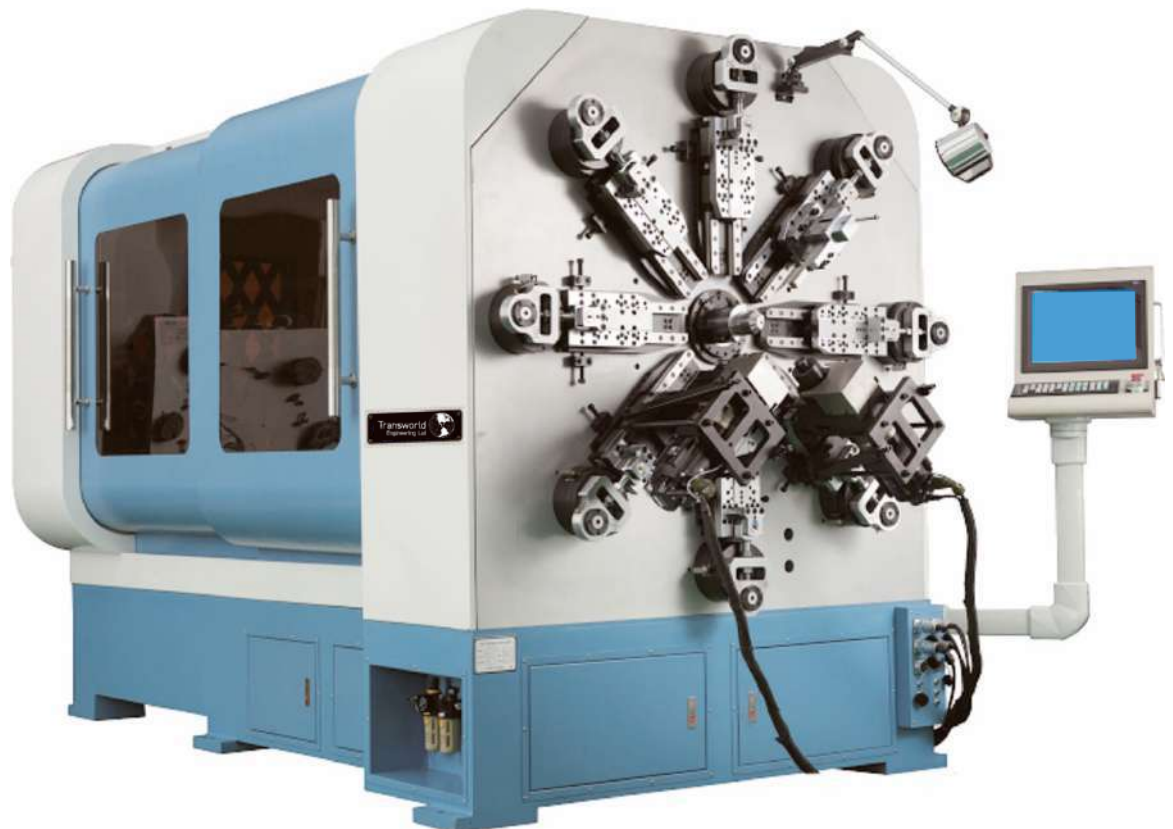


12 Axis Camless CNC Versatile Spring Rotating Forming Machine

MODEL	TWE-1260
Number of Axis	12
Wire Diameter	Ø 2.0-6.0mm
Max Outside Diameter	Ø 120 mm
Feeding Rollers Pairs	4
Spring Index	4
Max Feed Speed	105m/min
Wire Feed Servo Motor	7.5 kw
Wire Rotation Servo Motor	5.5 kw
Slide Servo Motor	4.4 kw x 8
Quill Servo Motor	1.8 kw
Spinner Servo Motor	1.8 kw
Dimension of machine (L x W x H)	3800 x 2000 x 2200mm
Weight of machine	8000kg

FEATURES

- 18 Axis Maximum
- All axis independent
- Japanese Servo Motor
- Taiwanese Controller
- Remote Monitoring
- Test Function
- Optional Induction Heater
- Optional Servo Spinner
- Optional Robot

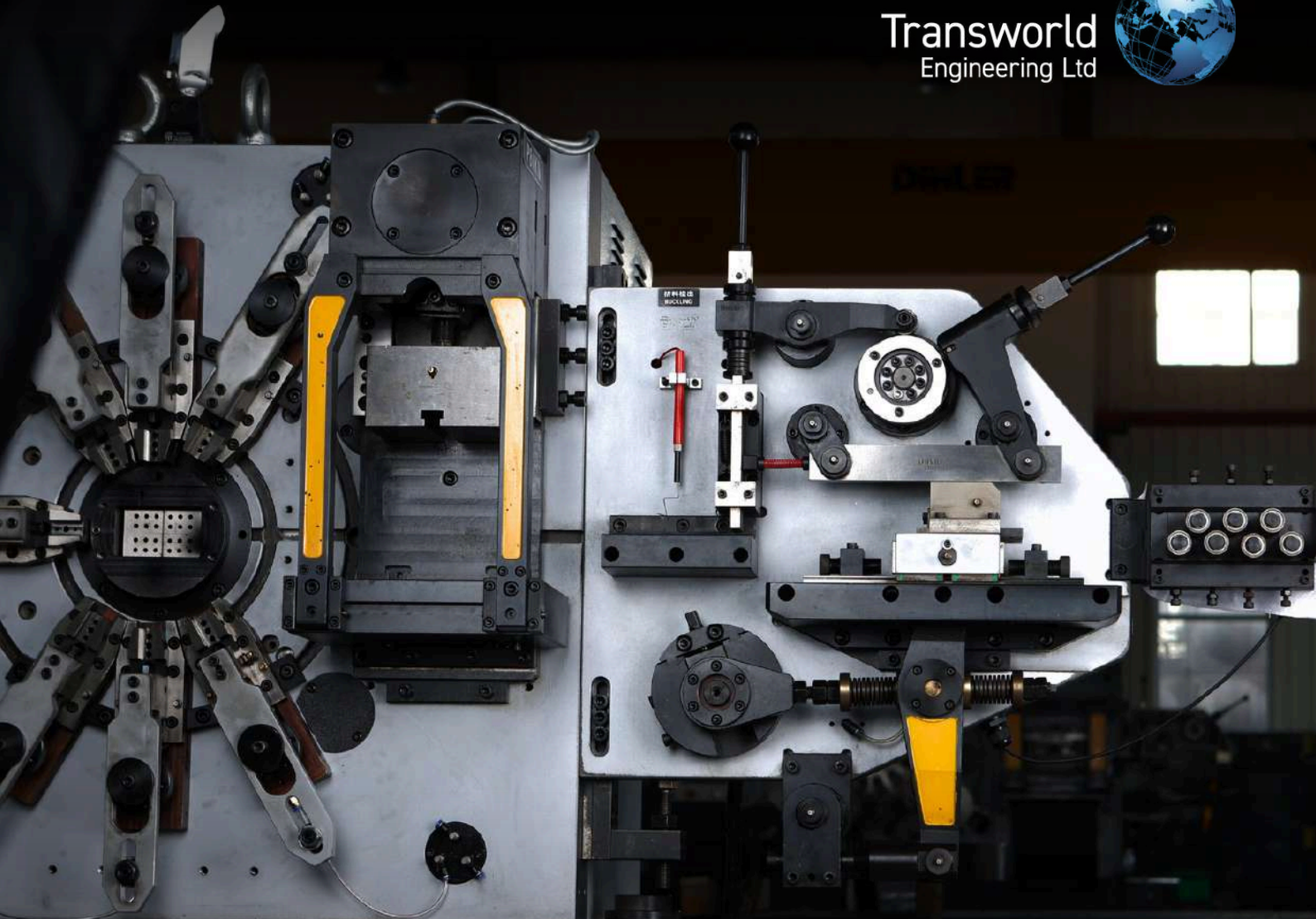


12 Axis Camless CNC Versatile Spring Rotating Forming Machine

MODEL	TWE-1280	FEATURES
Number of Axis	12	18 Axis Maximum
Wire Diameter	Ø 3.0-8.0mm	All axis independent
Max Outside Diameter	Ø 130mm	Japanese Servo Motor
Feeding Rollers Pairs	4	Taiwanese Controller
Spring Index	4	Remote Monitoring
Max Feed Speed	100m/min	Test Function
Wire Feed Servo Motor	15 kw	Optional Induction Heater
Wire Rotation Servo Motor	7.5 kw	Optional Servo Spinner
Slide Servo Motor	4.4 kw x 8	Optional Robot
Quill Servo Motor	1.8 kw	
Spinner Servo Motor	1.8 kw	
Dimension of machine (L x W x H)	5000 x 2300 x 2800mm	
Weight of machine	10000kg	



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Stamping Forming Machines

PROVIDING SPRING MACHINERY
ACROSS EUROPE SINCE 2009



Stamping Forming Machine

MODEL	TWE-DV8
Max Dimension Strip (Width x Thickness)	30mm x 1.2mm
Max Dimension Wire	Ø 2.0mm
Feed Length	Servo Unlimited
Feed Accuracy	±0.02
Press Force	80 kN
Press Bend Capacity	11 kN
Power Supply	3.5 kW
Dimension of machine (L x W x H)	2100 x 800 x 1900mm
Weight of machine	1.3 ton
Press Process Speed	0 – 150 rpm

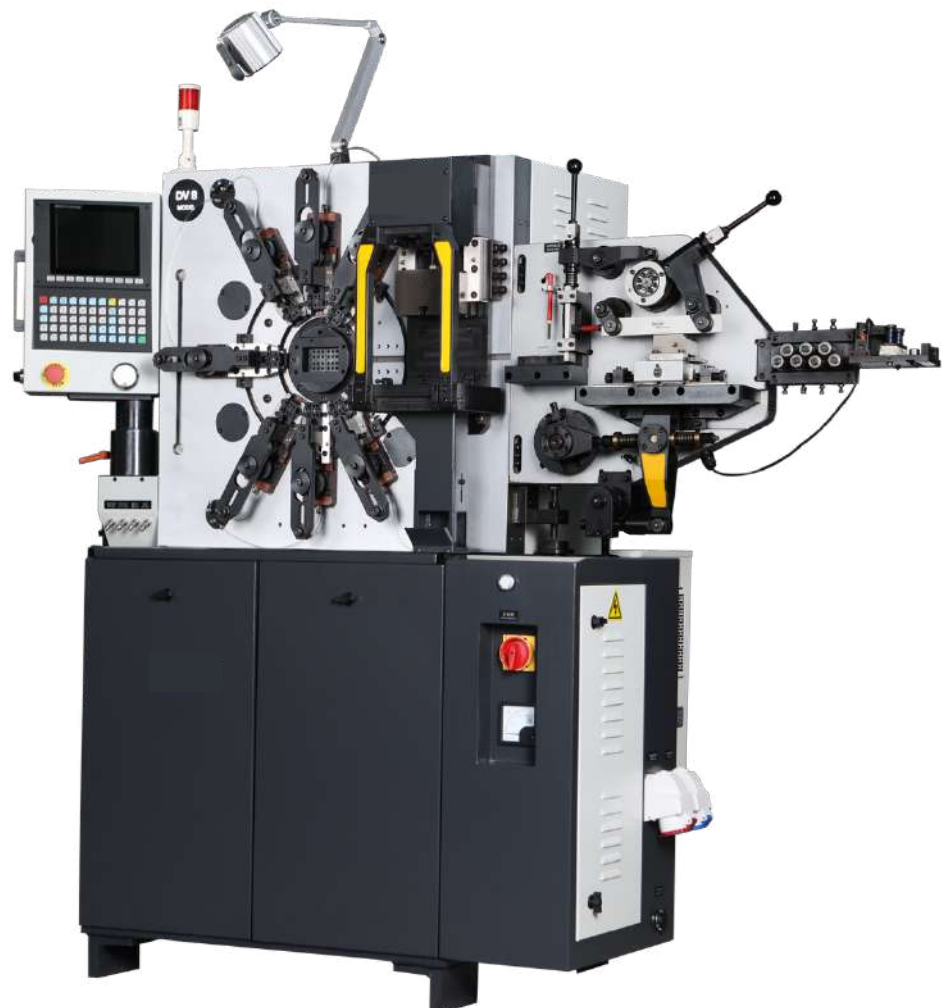
FEATURES

Stamping Forming Machine

High Speed

Patented Pull-Back Slide

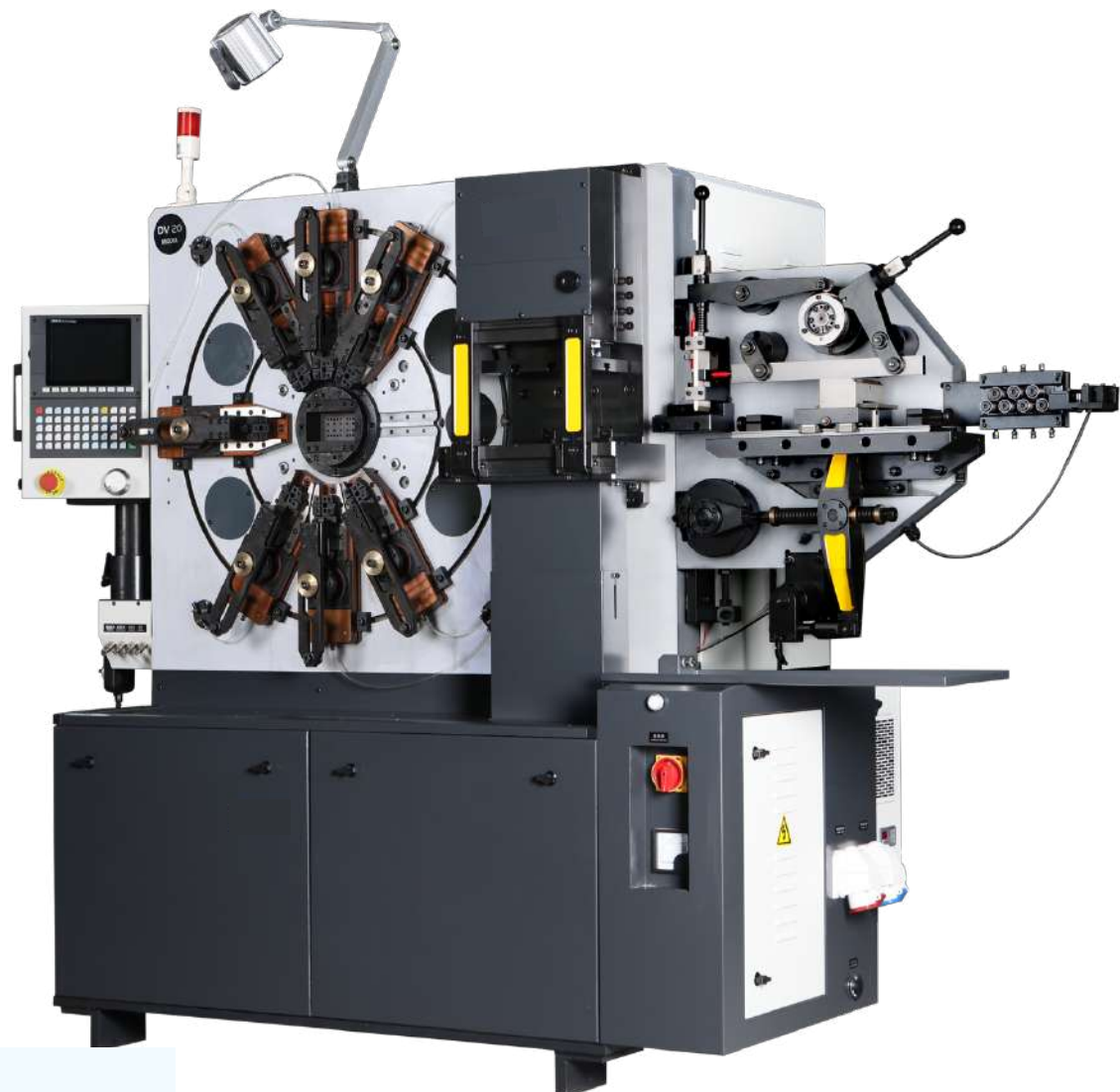
Replacement for traditional multislide





Stamping Forming Machine

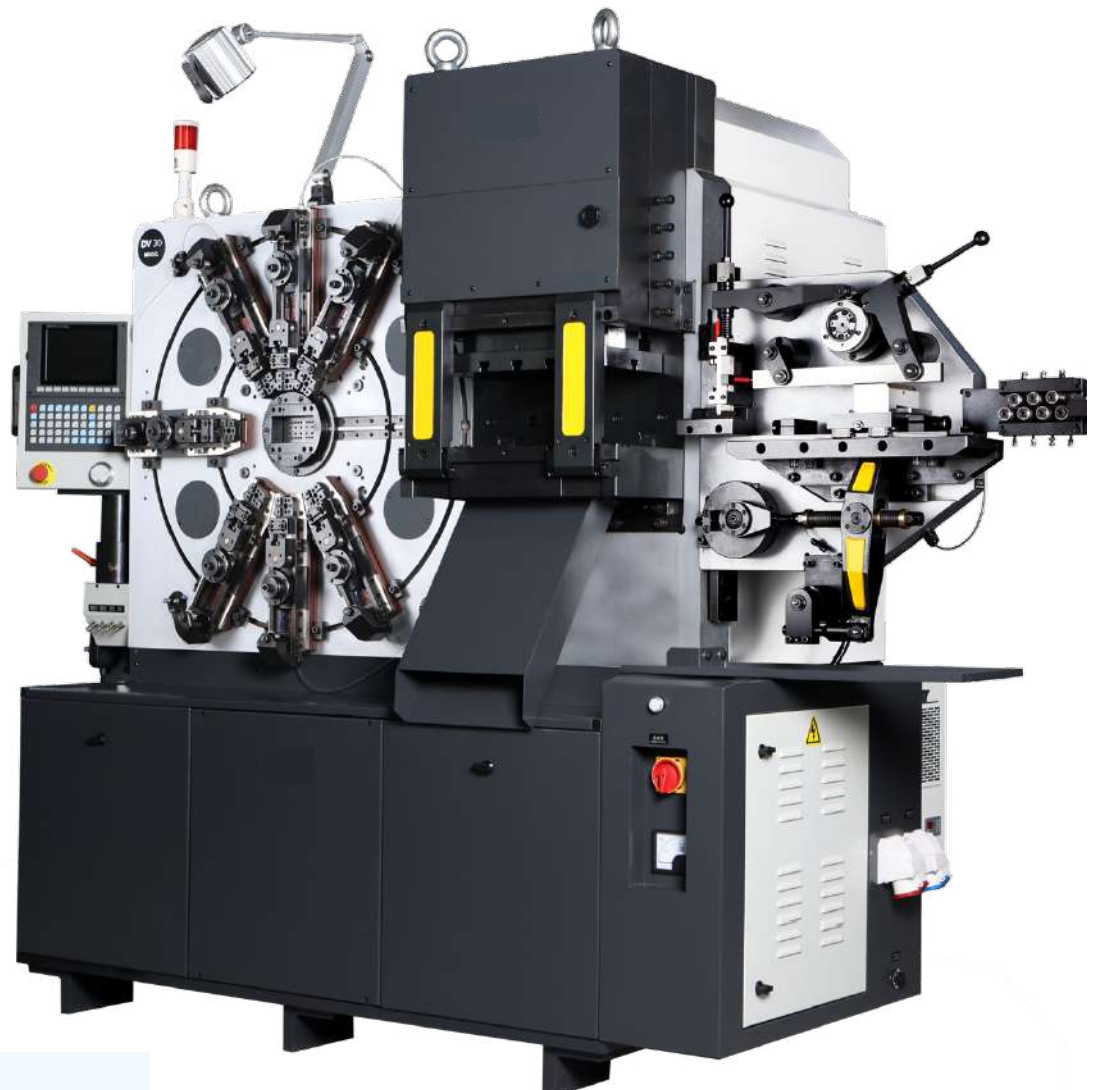
MODEL	TWE-DV20	FEATURES
Max Dimension Strip (Width x Thickness)	40mm x 1.5mm	Stamping Forming Machine
Max Dimension Wire	Ø 4.0mm	High Speed
Feed Length	Servo Unlimited	Patented Pull-Back Slide
Feed Accuracy	±0.02	Replacement for traditional multislide
Press Force	200 kN	
Press Bend Capacity	30 kN	
Power Supply	10.5 kW	
Dimension of machine (L x W x H)	2700 x 1100 x 2100mm	
Weight of machine	2.8 ton	
Press Process Speed	0 – 120 rpm	





Stamping Forming Machine

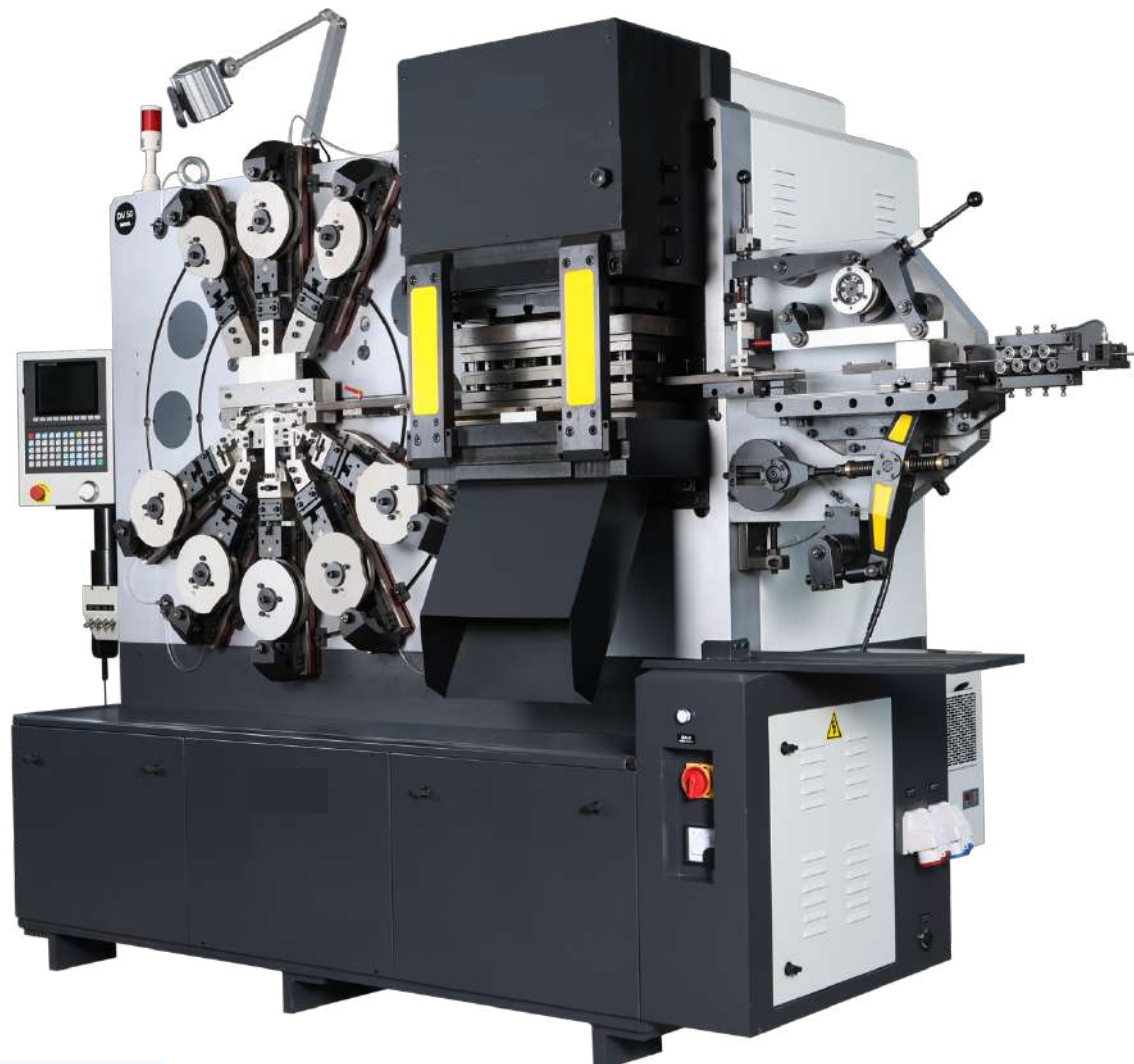
MODEL	TWE-DV30	FEATURES
Max Dimension Strip (Width x Thickness)	50mm x 2.0mm	Stamping Forming Machine
Max Dimension Wire	Ø 6.0mm	High Speed
Feed Length	Servo Unlimited	Patented Pull-Back Slide
Feed Accuracy	±0.02	Replacement for traditional multislide
Press Force	300 kN	
Press Bend Capacity	40 kN	
Power Supply	10.5 kW	
Dimension of machine (L x W x H)	2900 x 1200 x 2100mm	
Weight of machine	4.1 ton	
Press Process Speed	0 – 80 rpm	





Stamping Forming Machine

MODEL	TWE-DV50	FEATURES
Max Dimension Strip (Width x Thickness)	60mm x 3.0mm	Stamping Forming Machine
Max Dimension Wire	Ø 8.0mm	High Speed
Feed Length	Servo Unlimited	Patented Pull-Back Slide
Feed Accuracy	±0.02	Replacement for traditional multislide
Press Force	500 kN	
Press Bend Capacity	60 kN	
Power Supply	13.5 kW	
Dimension of machine (L x W x H)	3300 x 1350 x 2200mm	
Weight of machine	6.8 ton	
Press Process Speed	0 – 60 rpm	



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Auxiliary Machinery

DECOILERS, GRINDING MACHINES, COVEYOR FURNACES,
BOX FURNACES, SPIRAL OVENS, ETC.

AWF-100/200/400/800/1000

Wire feeder

MODEL	AWF-100	AWF-200	AWF-500	AWF - 800	AWF-1000
Max Capacity of Load	100 kg	200 kg	500 kg	800 kg	1000 kg
Max Speed of Table	150 rpm	70 rpm	58 rpm	50 rpm	50 rpm
Diameter of Table	Ø 650 mm	Ø 850 mm	Ø 1300mm	Ø 1500mm	Ø 2000mm
Motor	180 W	750 W	1.5 kW	2 kW	3 kW
Power	220V 50Hz	220V 50Hz	220V 50Hz	220V 50Hz	380V 50Hz
Dimension of machine (L x W x H)	650 x 650 x 750 mm	800 x 850 x 800 mm	1300 x 1300 x 900 mm	1500 x 1500 x 1265 mm	2900 x 2200 x 1365 mm
Weight of machine	60 kg	100 kg	150 kg	300 kg	1000 kg

Method of feeding coiled wire into the machine to de coil wire in a measured form with automatic sensor and adjustable speeds.



AWF-100



AWF-200



AWF-500
AWF-800



AWF-1000

AWF-2000/2800/3000/3000G

Wire feeder

MODEL	AWF-2000	AWF-2800	AWF-3000	AWF - 3000G
Max Capacity of Load	2000 kg	3000 kg	3000 kg	3000 kg
Max Speed of Table	14 rpm	14 rpm	12 rpm	12 rpm
Diameter of Table	Ø 2200 mm	Ø 2600 mm	Ø 2800mm	Ø 2800mm
Motor	5.5 kW	5.5 kW	5.5 kW	6.4 kW
Power	3AC/380V/50Hz	3AC/380V/50Hz	3AC/380V/50Hz	3AC/380V/50Hz
Dimension of machine (L x W x H)	3250 x 3850 x 1450 mm	3250 x 3850 x 1450 mm	TO BE UPDATED	TO BE UPDATED
Weight of machine	1220 kg	2000 kg	150 kg	300 kg

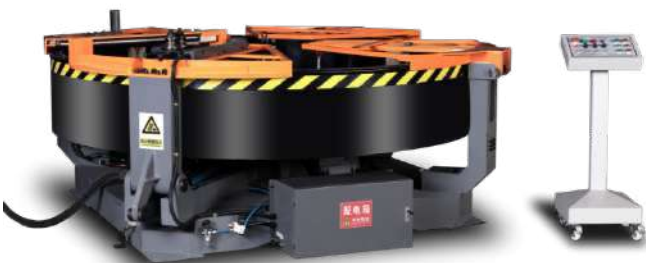
Method of feeding coiled wire into the machine to de coil wire in a measured form with automatic sensor and adjustable speeds.



AWF-2000



AWF-2800



AWF-3000



AWF-3000G



Bespoke Box Ovens

MODEL	Inside Dimensions (L x W x H)	Volume	Maximum Temperature	Temperature Uniformity	Power Capacity	Outside Dimensions (L x W x H)	Weight
TWEBF-6	200 x 220 x 140mm	6 l	500°C	±6°C	1.8 kw	470 x 640 x 890mm	60kg
TWEBF-9	300 x 220 x 140mm	9.2 l	500°C	±6°C	2.7 kw	570 x 640 x 890mm	70kg
TWEBF-25	360 x 360 x 240mm	9.6 l	500°C	±6°C	4.5 kw	650 x 760 x 1040mm	115kg
TWEBF-100	500 x 500 x 430mm	107.5 l	500°C	±6°C	10 kw	1000 x 930 x 1140mm	180kg
TWEBF-180	600 x 500 x 600mm	180 l	500°C	±6°C	10 kw	1250 x 900 x 1700mm	380kg
TWEBF-450	800 x 700 x 800mm	448 l	500°C	±6°C	15kw	1450 x 1100 x 1800mm	550kg
TWEBF-850	930 x 800 x 1000mm	744 l	500°C	±6°C	30kw	1650 x 1190 x 2260mm	760kg
TWEBF-1400	1200 x 1000 x 1200mm	1440 l	500°C	±6°C	60kw	1930 x 1400 x 2340mm	1300kg
TWEBF-1700	1400 x 1000 x 1200mm	1680 l	500°C	±6°C	70kw	2130 x 1400 x 2340mm	1430kg
TWEBF-2200	1400 x 1200 x 1300mm	2184 l	500°C	±6°C	82kw	2130 x 1600 x 2440mm	1550kg

These are examples of different measurements we can offer, but our bespoke furnaces are all custom made to suit your needs.



Spiral Vibrating Oven

MODEL	TWE-HZIG0A	FEATURES
Function	Tempering furnace	Intermittent Vibration
Power	2KW	Temperature control
Voltage	220V	Vibration Control
Temperature range	0° - 450°C	Light Weight and portable
Maximum Wire Diameter	1.5mm	Compact (Space saving)
Frequency	50-60Hz	Standard 3 pin plug
Dimensions (L x W x H)	460 x 490 x 770mm	
Net Weight	65kg	



TWECF206/420/660/860

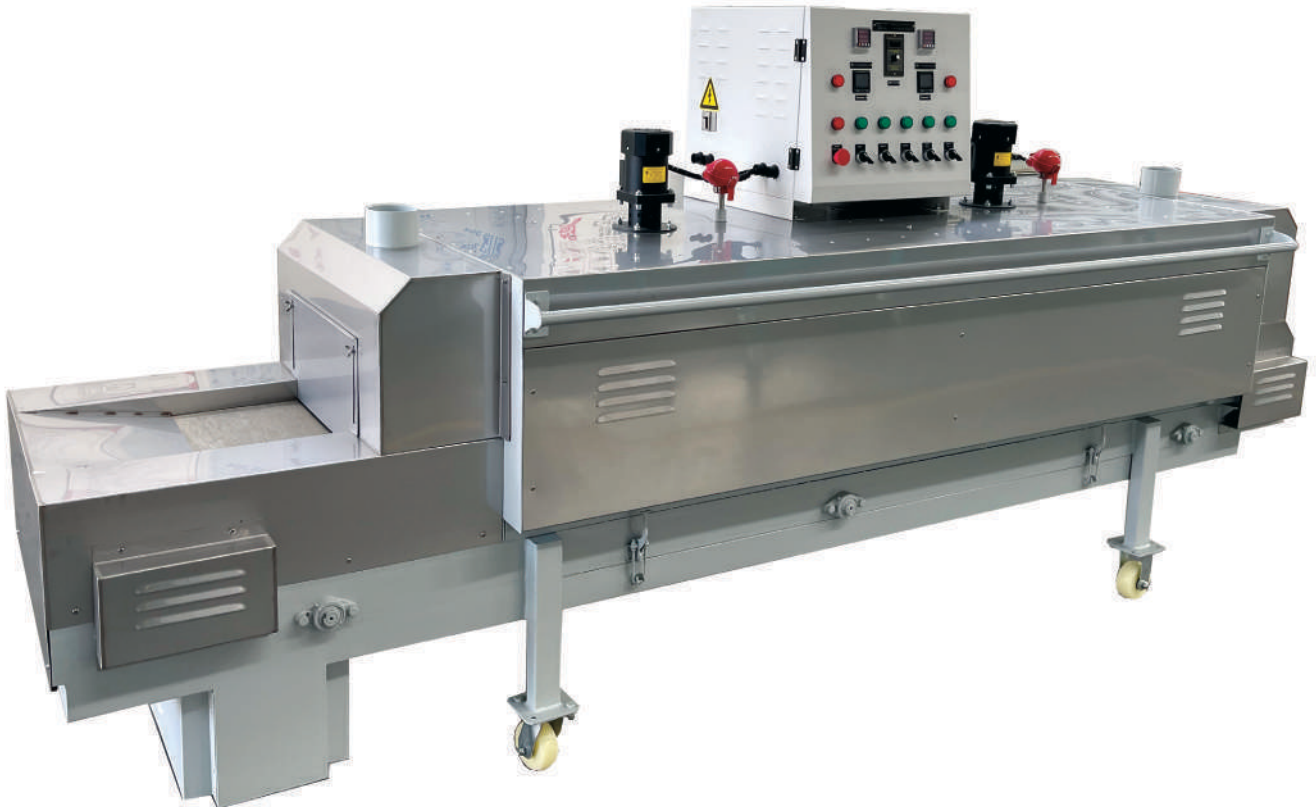
Conveyor Tempering Furnace

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MODEL	TWECF-206	TWECF-420	TWECF-660	TWECF-860
Maximum Temperature	500°C	500°C	500°C	500°C
Power	8KW	26KW	90KW	120KW
Heating Zone	1	1	1	1
Effective Heating Area (L x W x Hmm)	600x200x60	2000x400x90	6000x600x150	6000x800x260
Wire diameter	Ø 0.1 - 6.0mm	Ø 0.5 - 6.0mm	Ø 1.0 - 16.0mm	Ø 8.0 - 50.0mm
Weight of Furnace	250KG	1000KG	3800KG	5200KG
Dimensions (L x W x Hmm)	1600x750x1200	3300x950x1320	8100x1200x1900	8100x1400x2000

Inline stress relief of springs or wire shapes after coiling or forming



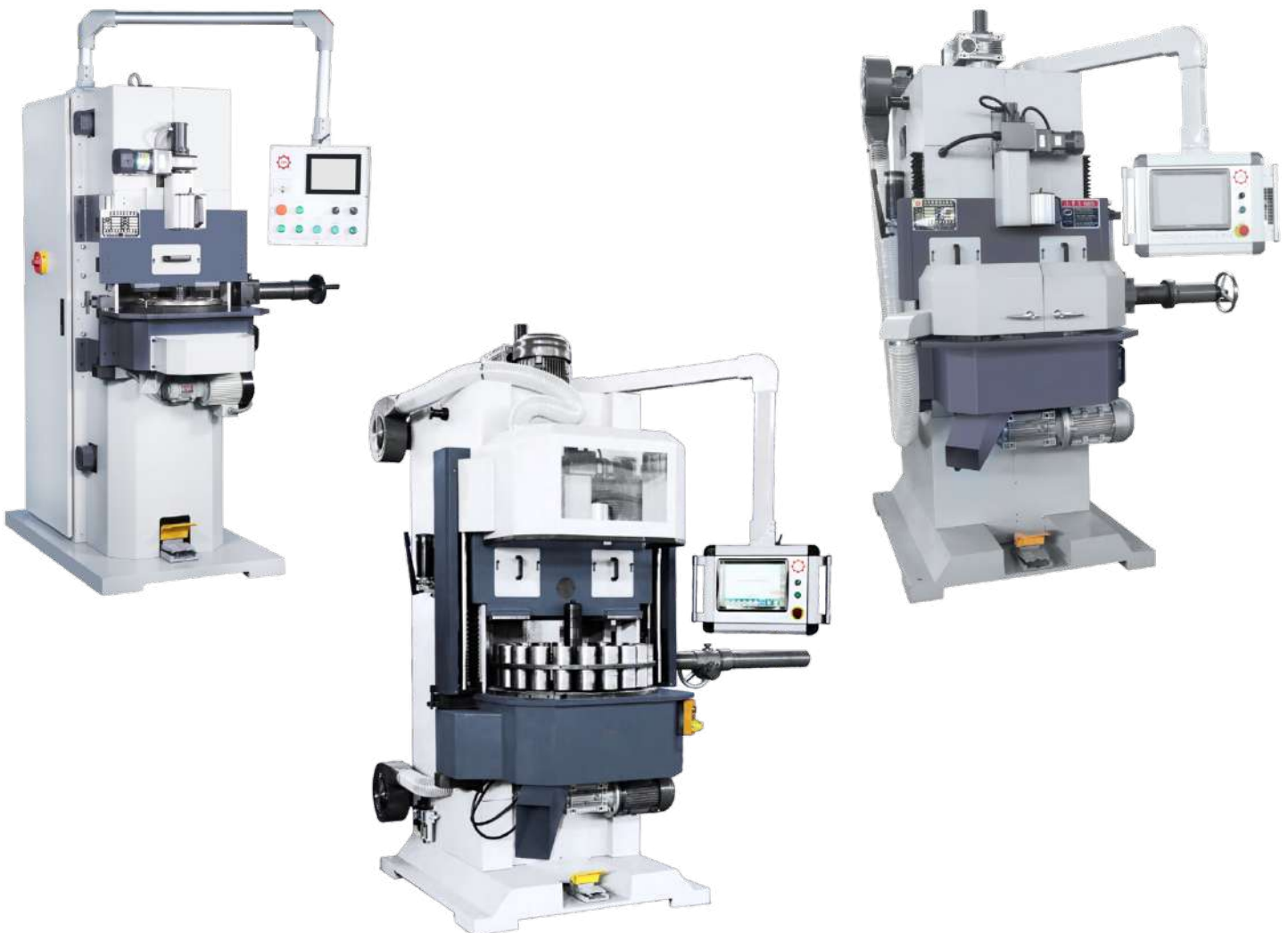
Model	Ext Length (mm)	Ext Width (mm)	Ext Height (mm)	Int Length (mm)	Int Width (mm)	Int Height (mm)	Power (kw)	Adjustable Temp (celsius)	Range of tempering time (minutes)	Dia of tempered pieces (mm)	Output of tempered pieces (Kg/h)	Weight of furnace body (kg)
TWECF-206	1600	750	1200	600	200	60	6	Up to 500	1.5 to 30	0.1 - 3	10 to 20	200
TWECF-210	2000	750	1250	1000	200	90	8	Up to 500	2.5 to 40	0.1 - 6	18 - 25	250
TWECF-215	2600	750	1250	1500	200	90	12	Up to 500	4 to 50	0.1 - 6	25 - 35	350
TWECF-315	2600	850	1320	1500	300	90	16	Up to 500	4 to 50	0.1 - 6	35 - 50	750
TWECF-320	3300	850	1100	2000	300	90	20	Up to 500	6 to 60	0.1 - 6	50 - 70	950
TWECF-420	3300	950	1320	2000	400	90	26	Up to 500	6 to 60	0.5 - 6	60 - 80	1000
TWECF-425	3800	950	1320	2500	400	100	30	Up to 500	6 to 60	0.5 - 6	70 - 90	1200
TWECF-430	4300	950	1300	3000	400	100	35	Up to 500	8 to 60	0.5 - 6	80 - 120	1300
TWECF-440	6100	1050	1600	4000	400	120	43	Up to 500	12 to 60	1.0 - 12	130 - 180	2200
TWECF-520	4100	1100	1600	2000	500	100	30	Up to 500	8 to 50	0.5 - 10	80 - 100	1400
TWECF-530	5100	1100	1900	3000	500	120	40	Up to 500	10 to 60	0.5 - 10	150 - 180	1800
TWECF-540	6100	1100	1900	4000	500	130	50	Up to 500	12 to 60	1.0 - 14	200 - 250	2400
TWECF-550	7100	1100	1900	5000	500	130	60	Up to 500	14 to 90	1.0 - 16	250 - 300	2800
TWECF-560	8100	1100	1900	6000	500	150	75	Up to 500	14 to 90	1.0 - 16	300 - 500	3600
TWECF-590	11200	1100	1950	9000	500	200	135	Up to 500	30 to 180	1.0 - 18	800 - 1000	5000
TWECF-630	5100	1200	1900	3000	600	120	48	Up to 500	10 to 60	1.0 - 12	160 - 200	2200
TWECF-640	6100	1200	1900	4000	600	130	60	Up to 500	12 to 60	1.0 - 14	200 - 300	2600
TWECF-650	7100	1200	1900	5000	600	130	75	Up to 500	14 to 90	1.0 - 16	300 - 400	3200
TWECF-660	8100	1200	1900	6000	600	150	90	Up to 500	14 to 90	1.0 - 16	360 - 500	3800
TWECF-680	10100	1200	2000	8000	600	200	135	Up to 500	25 to 150	1.0 - 20	700 - 1100	5000
TWECF-690	11200	1200	2000	9000	600	220	150	Up to 500	30 to 180	1.0 - 20	800 - 1200	5500
TWECF-730	5100	1300	1900	3000	700	120	55	Up to 500	10 to 60	1.0 - 14	180 - 220	2500
TWECF-740	6100	1300	2000	4000	700	180	68	Up to 500	12 to 60	1.0 - 16	250 - 350	3200
TWECF-750	7100	1300	2000	5000	700	200	92	Up to 500	14 to 90	1.0 - 16	320 - 450	3500
TWECF-760	8100	1300	2000	6000	700	220	103	Up to 500	14 to 90	1.0 - 20	400 - 600	4300
TWECF-840	6100	1400	2000	4000	800	180	86	Up to 500	12 to 60	8.0 - 50	280 - 400	4000
TWECF-850	7100	1400	2000	5000	800	220	103	Up to 500	14 to 90	8.0 - 50	400 - 600	4600
TWECF-860	8100	1400	2000	6000	800	260	120	Up to 500	14 to 90	8.0 - 50	550 - 800	5200



Spring End Grinding Machine

MODEL	TWESGM-2.5	TWESGM-6	TWESGM-9	TWESGM-12
Wire Diameter	Ø 0.3 - 2.5 mm	Ø 0.8 - 6.0 mm	Ø 1.0 - 9.0 mm	Ø 3.0 - 12.0 mm
Diameter Grinding Springs	Ø 5 - 40 mm	Ø 5 - 60 mm	Ø 10 - 100 mm	Ø 20 - 120 mm
Height Grinding Springs	8 - 80 mm	10 - 200mm	10 - 400 mm	20 - 500 mm
Grinding Wheel Sizes	Ø 220 x 50 mm	Ø 400mm x 55mm	Ø 450 x 65 mm	Ø 660 x 170 x 100 mm
Grinding Head Speed	2840	1440	1465	1000
Total Motor Power	4kW	10 kw	20 kW	31 kW
Dimension of machine (L x W x H)	1585 x 1530 x 1870 mm	1750 x 1700 x 2300mm	1900 x 2500 x 2750mm	2400 x 2600 x 3200mm
Weight of machine	800kg	2500kg	3500 kg	5000 kg

CNC operated machine for grinding and finishing the ends of compression springs.





Double Tray Spring End Grinding Machine

MODEL	TWESGM-9-2E
Wire Diameter	Ø 1.0-9.0 mm
Diameter Grinding Springs	Ø10-80 mm
Height Grinding Springs	10-400mm
Grinding Wheel Size (Outside & Inside)	Ø 450mm & Ø 80mm
Grinding Wheel Size (Height)	65 mm
Grinding Head Speed	1400n/min
Total Motor Power	23 kw
Voltage	3AC 380V/50HZ
Feeding Plate Diameter	Left and Right
Dimension of machine (L x W x H)	2250 x 2400 x 2750mm
Weight of machine	4300kg

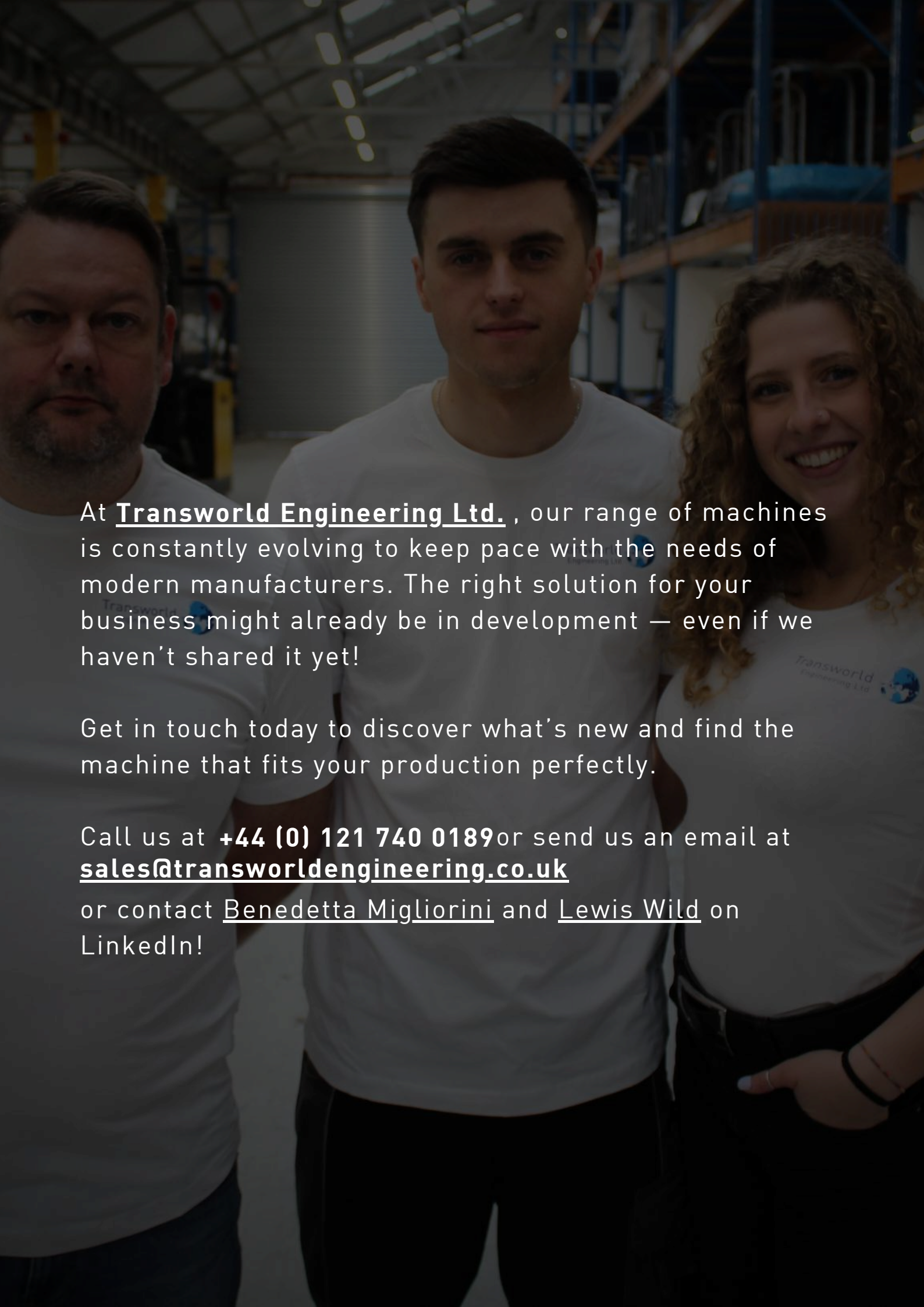




Double Tray Spring End Grinding Machine

MODEL	TWESGM-12-2E
Wire Diameter	Ø 3.0-12.0 mm
Diameter Grinding Springs	Ø20-120 mm
Height Grinding Springs	20-400mm
Grinding Wheel Size (Outside & Inside)	Ø 660mm & Ø 170mm
Grinding Wheel Size (Height)	100mm
Grinding Head Speed	950n/min
Total Motor Power	37 kw
Voltage	3AC 380V/50HZ
Feeding Plate Diameter	Left and Right
Dimension of machine (L x W x H)	2600 x 3200 x 3300mm
Weight of machine	6000kg



A photograph of three people standing in a factory or industrial setting. On the left is a man with a beard, in the center is a younger man, and on the right is a woman with curly hair. They are all wearing white t-shirts with the Transworld Engineering Ltd. logo. The background shows industrial equipment and a high ceiling with lights.

At **Transworld Engineering Ltd.**, our range of machines is constantly evolving to keep pace with the needs of modern manufacturers. The right solution for your business might already be in development — even if we haven't shared it yet!

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