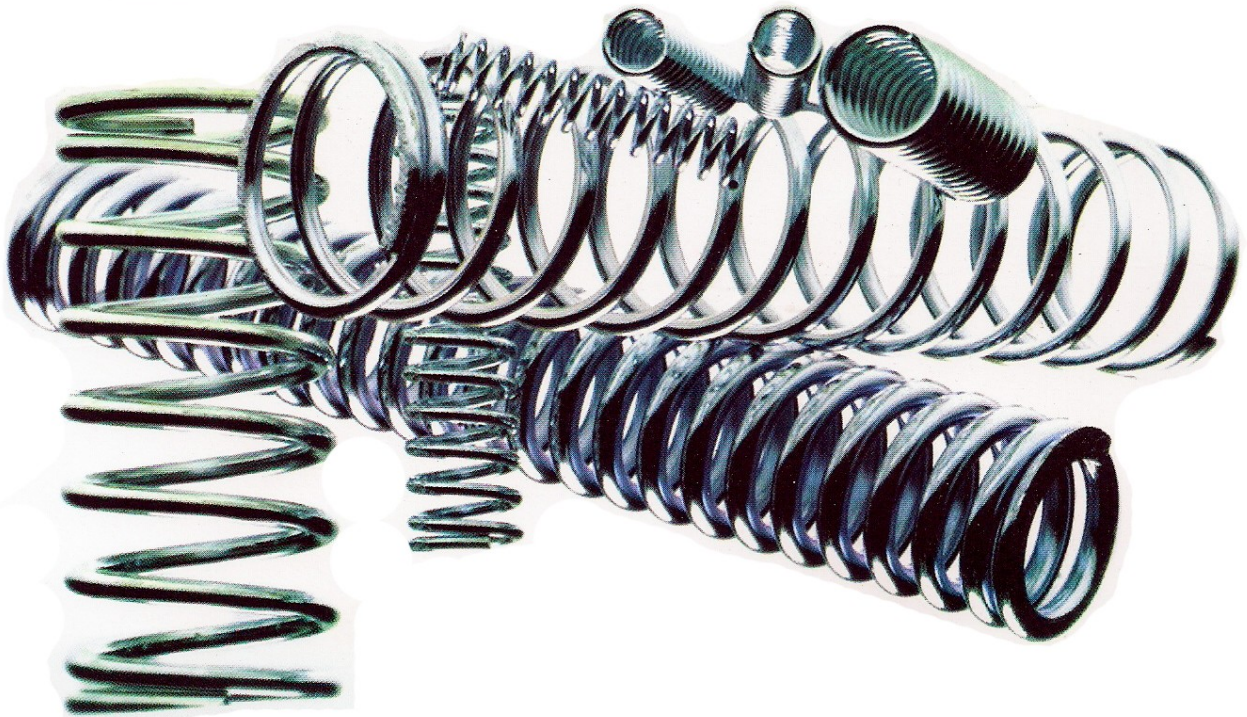


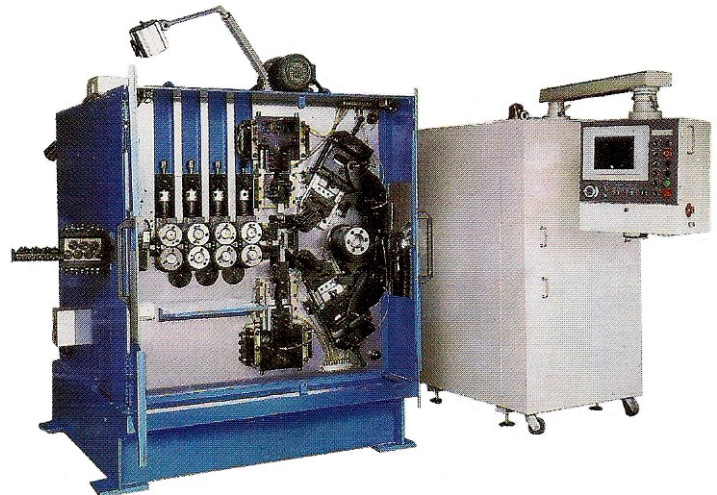
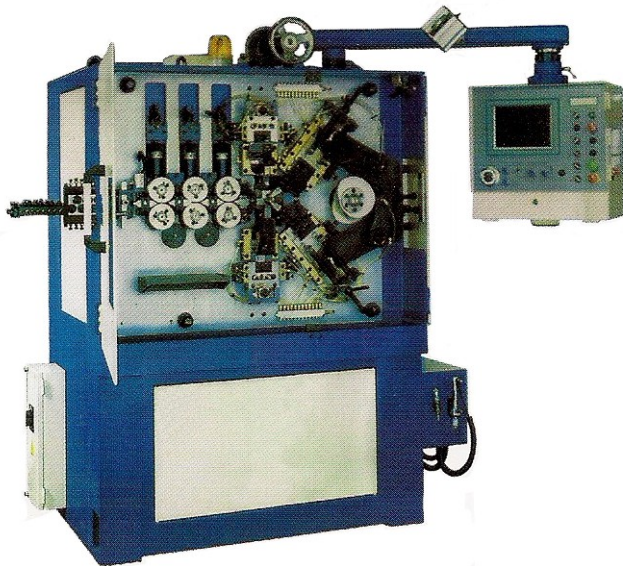
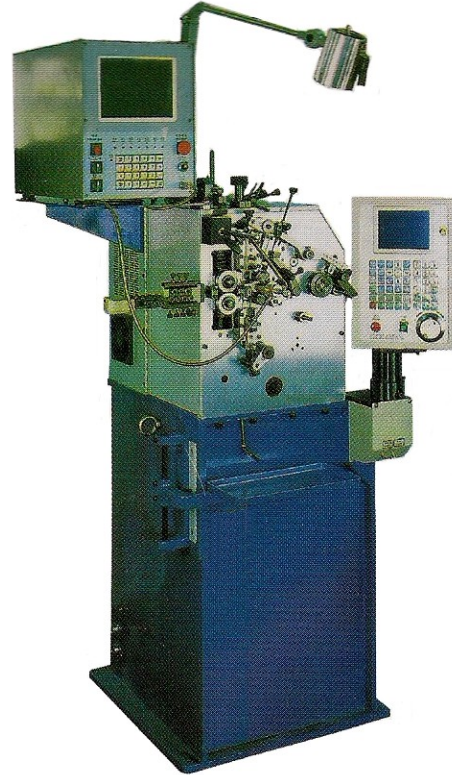
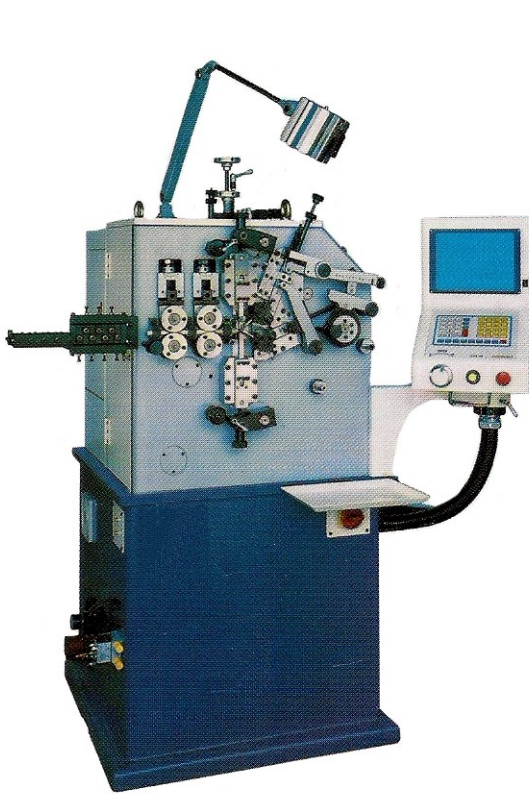
# **SPRING MAKING MACHINES**

## **(Automatic Spring Making Plant)**

- (a) Mechanical & CNC Spring Coiler (2 Axes to 5 Axes)
- (b) CNC Spring Forming Machines (3 Axes to 8 Axes)
- (c) CNC 2 Axes Garter Spring Coiling Machine
- (d) Mechanical Torsion Spring Coiler
- (e) Mechanical Spring End Grinding Machine
- (f) Automatic Decoiler
- (g) Electrical Tempering Ovens



## MECHANICAL & CNC SPRING COILER (2 Axes to 5 Axes)





## STANDARD SERRO MOTOR

	FEED	PITCH	OD	CENTER	WEDGE TYPE PITCH
<b>2 AXES</b>	1	1	-	-	-
<b>4 AXES</b>	1	1	1	1	-
<b>5 AXES</b>	1	1	1	1	1

## FEATURES

### CNC 2 Axes To 5 Axes Spring Coiling Machines

- Servo Motors, Computer Controlled.
- Synchronized Programming for High speed spring production.
- A Micro pulse Hand Wheel is used to run every motor either in manual mode or auto mode for very easy setup and programming.
- Easy to read color TPT-LCD Screen.
- .Standard security sensor and position sensor included.

## SPECIFICATION

Item Code No.	ABM-FM-8050	ABM-FM-8051	ABM-FM-8052	ABM-FM-8050
<b>Wire Capacity (mm)</b>	0.1 – 0.8	1 - 2.6	2 - 5	3 - 8
<b>Max OD</b>	10 mm	40 mm	60 mm	100 mm
<b>Feed Roller Set</b>	1 set	2 set	3 set	4 set
<b>Max Production</b>	100 pcs	60 pcs	40 pcs	30 pcs
<b>Axes</b>	2	2	4	5
<b>Total Power Consumption (kw)</b>	1.50	4	12	20

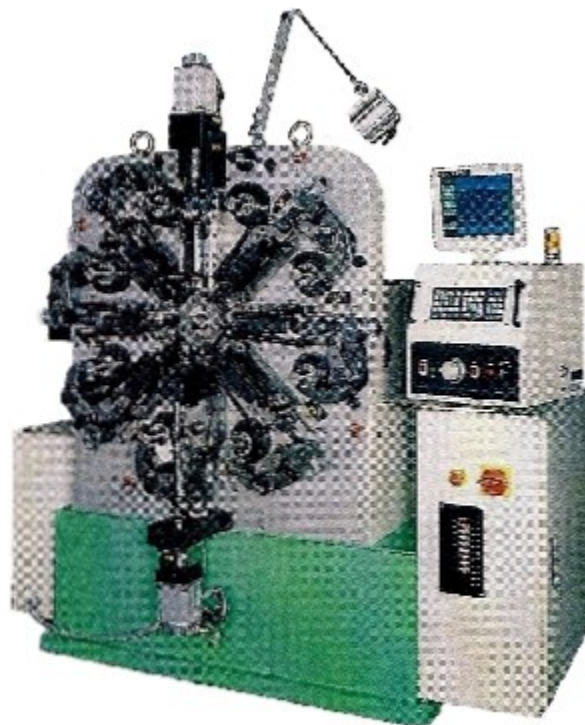
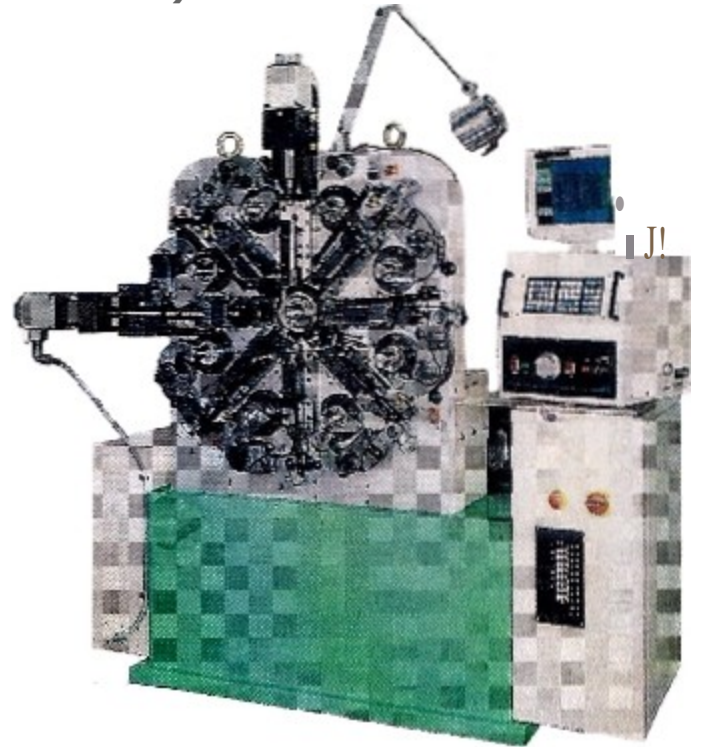


AB M TOOLS



ABM FASTENERS

## CNC SPRING FORMING MACHINES (4 Axes to 8 Axes)



**All Machines can be equipped with 4 Axes or 8 axes Computer**

	CAM	FEED	ROTATING QUILL	SERVO WINDOR	SERVO SLIDE	ROTATING WIRE
<b>4 AXES</b>	1	1	1	1	0	0
<b>8 AXES</b>	1	1	1	2	2-	1

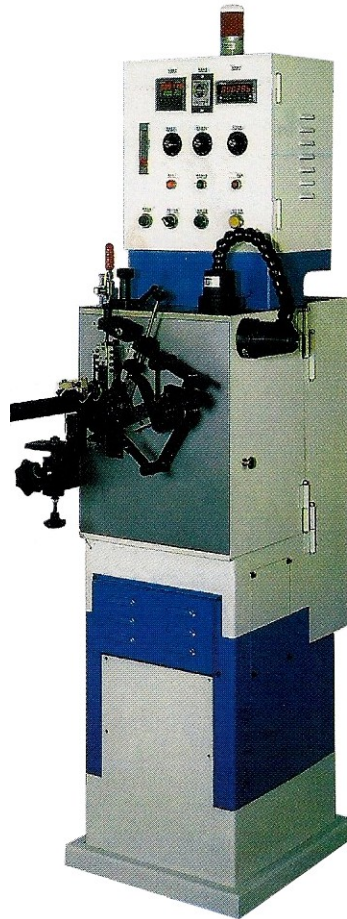
**FEATURES**

- On screen diagnostics shows alarm status and corrective action required.
- Memory : CPU program capacity.
- Cam angle and wire length display on monitor.
- Safety interlock sensors are fitted to all slides.
- Forward and reverse capability for all slides.
- OD control is a standard feature.
- Continuous rotation mode insures high speed production capacity.
- A Micro Pulse Hand Wheel is used to run every motor in Manual Mode or Auto Mode for very easy setup and programming.
- Easy to read on color TFT-LCD same space.

**SPECIFICATION**

Item Code No.	ABM-FM-8060	ABM-FM-8060	ABM-FM-8061
<b>Wire Capacity (mm)</b>	0.6 – 1.6	1 - 3	2 - 5
<b>Max OD</b>	40 mm	50 mm	60 mm
<b>Max Speed</b>	40 Pcs / Min	30 Pcs / Min	25 Pcs / Min

## CNC 2 AXES GARTER SPRING COILING MACHINES



### FEATURES

- 2 Servo Motor. Computer Controlled.
- Double OD cm design insures easy setup for spring Tip.
- Standard security sensor and touching length control sensor included.
- Easy to read color TFT-LCD screen.
- A motor pulse hand wheel is used to run..

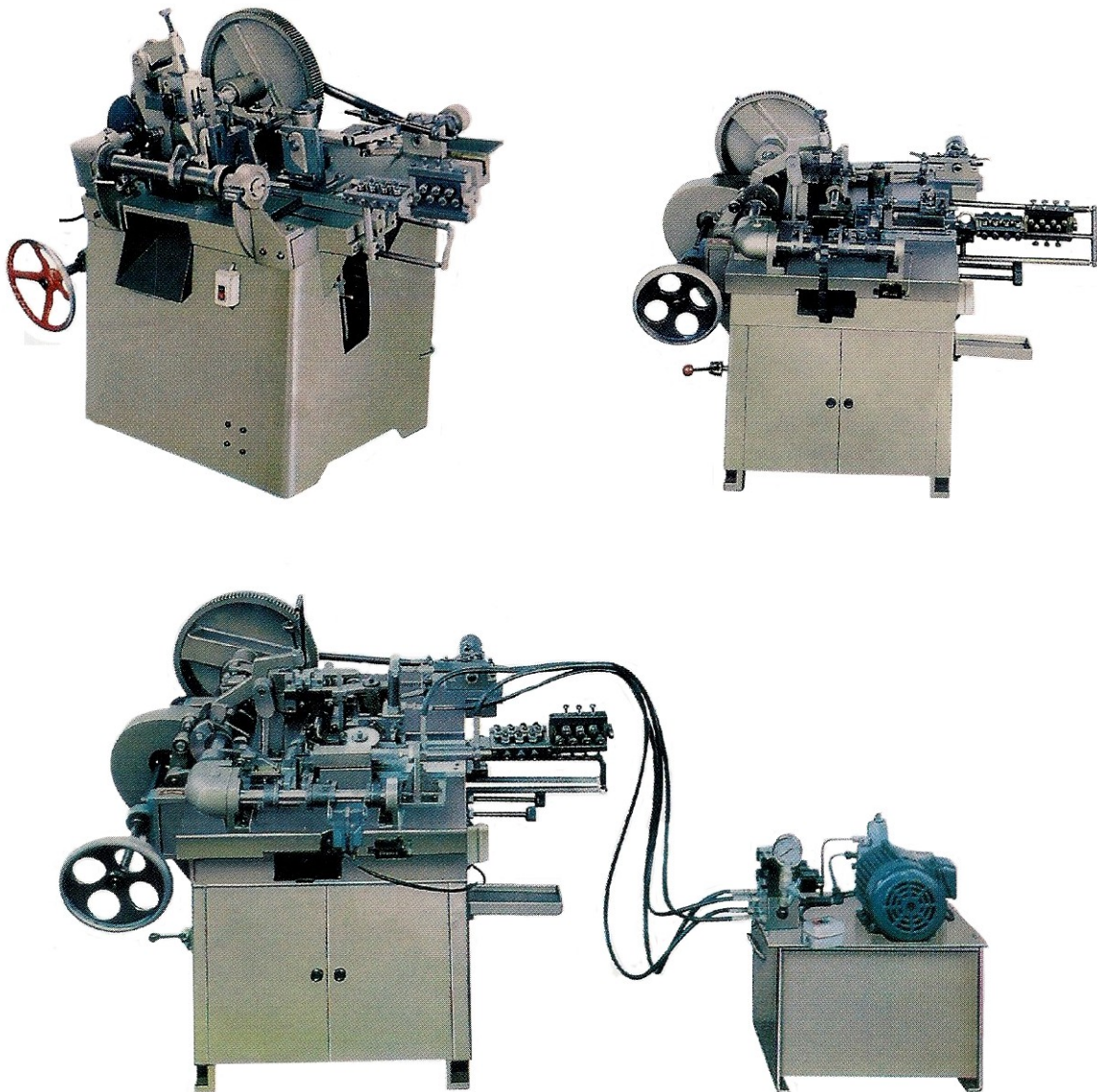
### S Standard 2 Servo Motors

Feed – 1 (0.75 Kw) OD and cutter - 1 (0.75 Kw)

Item Code No.	ABM-FM-8070
Wire Axes	0.2 – 0.8 mm
Max OD	6 mm



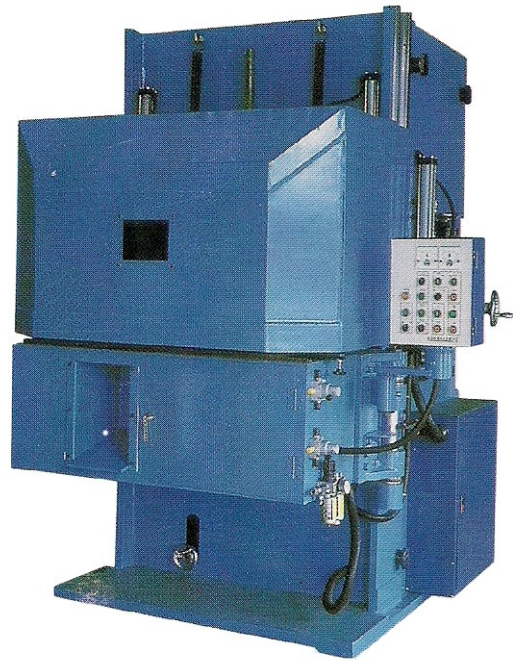
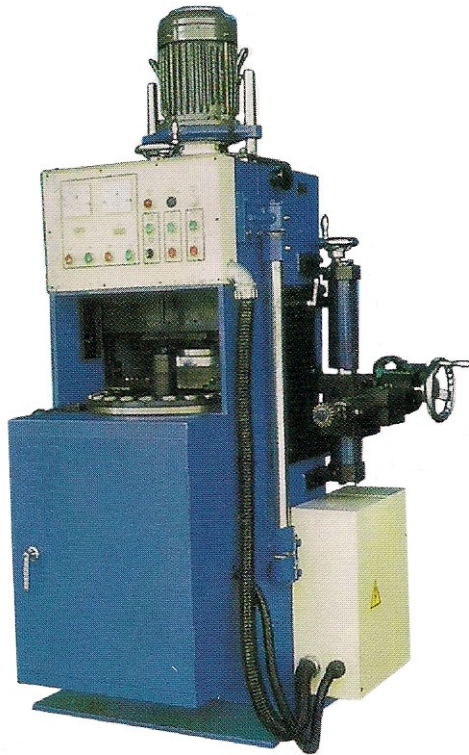
## MECHANICAL TORSION SPRING COILER



### SPECIFICATION

Item Code No.	ABM-FM-8060	ABM-FM-8060	ABM-FM-8061
Wire Capacity (mm)	0.20 – 0.80 mm	1 – 2.6 mm	2 – 5 mm
Max OD	10 mm	40 mm	60 mm
Max Feed	250 mm	1000 mm	1500 mm
Power (Kw)	0.75	2	3
Max Wire Shank Both Side	30 mm	75 mm	100 mm

## MECHANICAL SPRING END GRINDING MACHINE



### SPECIFICATION

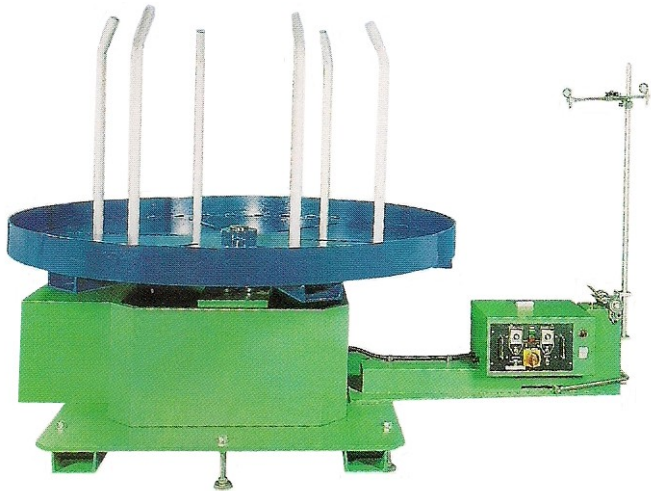
Item Code No.	ABM-FM-8060	ABM-FM-8060	ABM-FM-8061
Wire Capacity (mm)	0.80 – 2.5 mm	2 – 6 mm	3 – 10 mm
Wheel Diameter	300 mm	450 mm	600 mm
Max Length	100 mm	200 mm	300 mm
Max spring OD	40 mm	60 mm	100 mm
Total Power (Kw)	4.5	8.5	15

### FEATURES

- Crash Grinding.
- Down Feed Grinding.
- Horizontal / Vertical Stone Conversion.
- Dry Grinding..



## AUTOMATIC DECOILER



### SPECIFICATION

Item Code No.	ABM-FM-8060	ABM-FM-8060	ABM-FM-8061	ABM-FM-8061
Max Wire	1.2 mm	3 mm	4 mm	6 mm
Diameter of Table	24 inch	32 Inch	42 inch	48 inch
Max Load Table of Material	50 Kg.	100 kg.	250 Kg.	500 Kg.
Max Speed RPM	100	80	60	40

### FEATURES

- Suitable for both wire and Strip.
- Adjustable Speed Control.
- Payoff reel will detect and stop the machine when wire tangle. Break or run out.
- Fitted with an emergency stop and buzzer alarm.

## ELECTRICAL TEMPERING OVENS



### SPECIFICATION

Item Code No.	ABM-FM-8060	ABM-FM-8060
Max temp (C)	400	400
Electric Load	5 Kw	10 Kw
No. of Trays	3	6
Inside Diameter	18 x 18 x 24	36 x 36 x 42
Outside (Inches)	30 x 30 x 42	48 x 48 x 54

### FEATURES

- Max 400 C.
- Alarm System.
- Solid Steel Relay (SSR) ON / OFF Heating Control.
- PID Temp. Controller.
- 100 minute Timer.

### BENEFITS

- Shut down power automatically for safety.
- Provide high efficiency heat control.
- Insure uniform and accurate temperature.
- Blower system.



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