

## JEWELLERY DESIGN MAKING CNC MACHINES CATALOGUE

Mfg. Of All Types Jewellery Design Making CNC Machines.

Mfg. Of Special Purpose Machines.

Perfect Industrial Demand Work Solution.

## FLM 8\_ADM V1.0

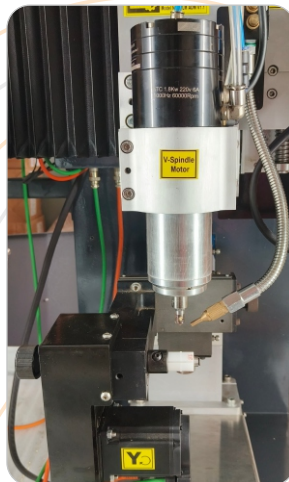
### CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine 12 Axis (8 Axis Automatic + 4 Axis Manual)



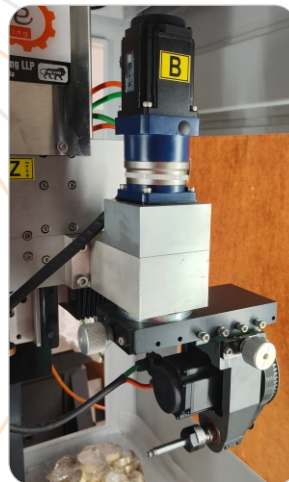
**Tool Magazine**



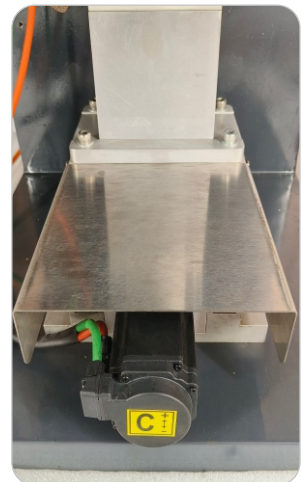
**Vertical Head**



**Horizontal Head**



**C-Axis**



## FLM 8\_ADM V1.0

### CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine

12 Axis (8 Axis Automatic + 4 Axis Manual)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 8_ADM V1.0
Axis Configuration	12 Axis Support (8 Axis Automatics + 4 Axis manual)
Machine Control Method	CNC Controller Operating System Method
Axis Motor	All Axis Servo Motor 400w + 2 Pcs Precision Planetary Gearbox Fitting
Vertical Head Motor	ISO 10 Spindle Motor with 1.8kw & 60,000 RPM Water Cooler + Automatic tool changer
ATC Tool Capacity	8 Tool Automatic Tool Change Capacity
Horizontal Head Motor	Servo Motor 400w & Mechanically 12000 RPM
Power Supply	Single Phase And 220V to 240V
Vertical Tool Clamping Range	1 mm to 6 mm
Horizontal Tool OD Range	10 to 90 mm Tool (OD) Outer Diameter Support
Machine Weight	0.6 to 0.7 Ton
Machine Dimension in CM	138 (W) X 150 (L) X 180 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Specially Designed For The Metal Recovery Rate Are Higher 99% In Machine Cabinet.
- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Vertical Head + Horizontal Head Both Combo Attachment In One Machine.
- ▶ CNC Controller with Operatic Machine And 12 Axis Support (8 Axis Automatics + 4 Axis Manual) And All Automatic Axis In Servo Motor 400w Fitting.
- ▶ Machine Can Double Head Design & Cutting Works Supported In Bangle Work + Ring Work + Bead (ball) Work + Half Ball (bali) Design + Vati Design And Square Shape, Hexagon Shape Work Support With Change Attachment.
- ▶ Vertical Head ATC ISO 10 Spindle Motor 1.8 Kw With 60,000 Rpm With Water Cooler And 8 Tools Automatic Tool Changer Capacity.
- ▶ Horizontal Head Servo Motor Fitting Mechanically 12000 Rpm & 360 Degree Work Possible.
- ▶ The Machine Into Fitting High Precision LM Guides And Direct Couple With High Precision Ball Screw With Good Alignment Installing.





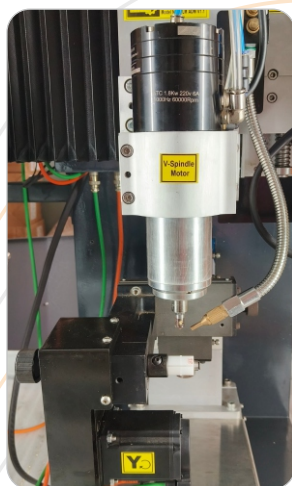
## FLM 7\_ADM V1.0

### CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine

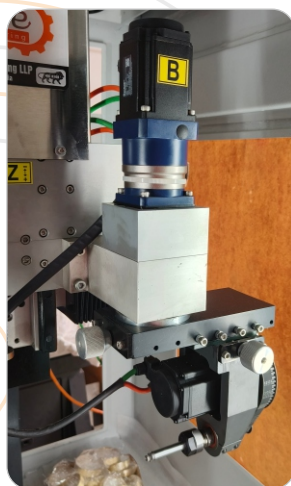
11 Axis (7 Axis Automatic + 4 Axis Manual)



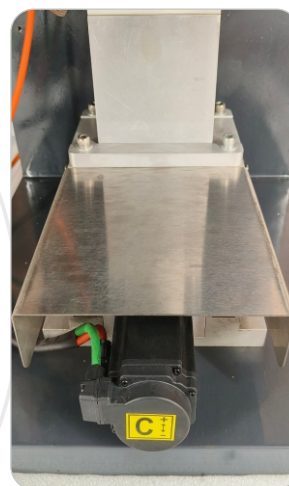
**Vertical Head**



**Horizontal Head**



**C-Axis**





## FLM 7\_ADM V1.0

### CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine

11 Axis (7 Axis Automatic + 4 Axis Manual)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 7_ADM V1.0
Axis Configuration	11 Axis Support (7 Axis Automatics + 4 Axis manual)
Machine Control Method	Computer with Software control Method
Axis Motor	All Axis Servo Motor 400w + 2 Pcs Precision Planetary Gearbox Fitting
Vertical Head Motor	Spindle Motor with 1.8kw & 60,000 RPM Water Cooler
Horizontal Head Motor	Servo Motor 400w & Mechanically 12000 RPM
Power Supply	Single Phase And 220V to 240V
Vertical Tool Clamping Range	1 mm to 6 mm
Horizontal Tool OD Range	10 to 90 mm Tool (OD) Outer Diameter Support
Machine Weight	0.6 to 0.7 Ton
Machine Dimension in CM	150 (W) X 180 (L) X 180 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Specially Designed For The Metal Recovery Rate Are Higher 99% In Machine Cabinet.
- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Vertical Head + Horizontal Head Both Combo Attachment In One Machine.
- ▶ Computer Software Operatic machine And 11 Axis Support (7 Axis Automatics + 4 Axis Manual) And All Automatic Axis In Servo Motor 400w Fitting.
- ▶ Machine Can Double Head Design & Cutting Works Supported In Bangle Work + Ring Work + Bead (ball) Work + Half Ball (ball) Design + Vati Design And Square Shape, Hexagon Shape Work Support With Change Attachment.
- ▶ Vertical Head Spindle Motor 1.8 Kw With 60,000 Rpm With Water Cooler With Pneumatic Tool Change.
- ▶ Horizontal Head Servo Motor Fitting Mechanically 12000 Rpm & 360 Degree Work Possible.
- ▶ The Machine Into Fitting High Precision LM Guides And Direct Couple With High Precision Ball Screw With Good Alignment Installing

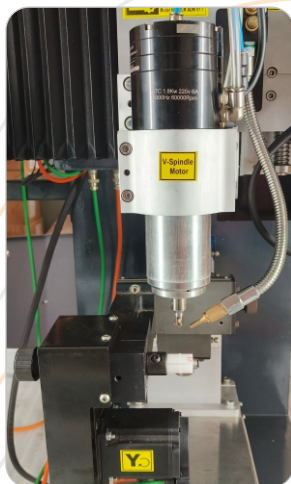


## FLM 6\_ADM V1.0

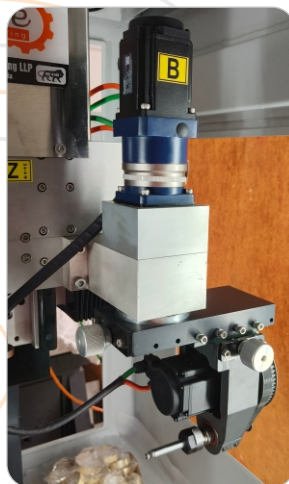
**CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine**  
11 Axis (6 Axis Automatic + 5 Axis Manual)



**Vertical Head**



**Horizontal Head**



**Manual Axis**





## FLM 6\_ADM V1.0

### CNC Double Head Bangle - Bead (Ball) - Ring Design & Cutting Machine

11 Axis (6 Axis Automatic + 5 Axis Manual)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 6_ADM V1.0
Axis Configuration	11 Axis Support (6 Axis Automatics + 5 Axis manual)
Machine Control Method	Computer with Software control Method
Axis Motor	All Axis Servo Motor 400w + 2 Pcs Precision Planetary Gearbox Fitting
Vertical Head Motor	Spindle Motor with 1.8kw & 60,000 RPM Water Cooler
Horizontal Head Motor	Servo Motor 400w & Mechanically 12000 RPM
Power Supply	Single Phase And 220V to 240V
Vertical Tool Clamping Range	1 mm to 6 mm
Horizontal Tool OD Range	10 to 90 mm Tool (OD) Outer Diameter Support
Machine Weight	0.6 to 0.7 Ton
Machine Dimension in CM	150 (W) X 180 (L) X 180 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- Specially Designed For The Metal Recovery Rate Are Higher 99% In Machine Cabinet.
- Easy Operating Method Of Machine With Flexible Work Done.
- Vertical Head + Horizontal Head Both Combo Attachment In One Machine.
- Computer Software Operatic machine and 11 Axis Support (6 Axis Automatics + 5 Axis manual) and All Automatic Axis in Servo Motor 400W Fitting.
- Machine can Double Head Design & Cutting works supported in Bangle Work + Ring Work + Bead (Ball) Work + Half Ball (Bali) Design + Vati Design Support with Change Attachment.
- Vertical Head Spindle Motor 1.8 Kw With 60,000 Rpm With Water Cooler With Pneumatic Tool Change.
- Horizontal Head Servo Motor Fitting Mechanically 12000 Rpm & 360 Degree Work Possible.
- The Machine Into Fitting High Precision LM Guides And Direct Couple With High Precision Ball Screw With Good Alignment Installing.



## FLM 5\_HSM V1.1

### CNC Horizontal Bangle - Bead (Ball) - Ring Design Machine

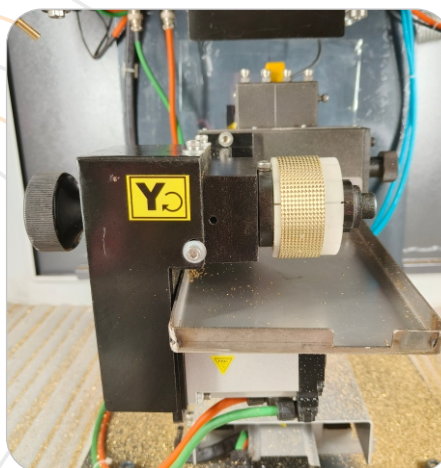
5 Axis CNC (360° Degree Work Possible)



Horizontal Head



Y-Axis





## FLM 5\_HSM V1.1

### CNC Horizontal Bangle - Bead (Ball) - Ring Design Machine

5 Axis CNC (360° Degree Work Possible)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 5_HSM V1.1
Axis Configuration	5 Axis CNC (360° Degree Work Possible)
Machine Control Method	CNC Controller Operating System Method
Axis Motor	All Axis Servo Motor 400w + 2 Pcs Precision Planetary Gearbox Fitting
Horizontal Head Motor	Servo Motor 400w & Mechanically 12000 RPM
Power Supply	Single Phase And 220V to 240V
Horizontal Tool OD Range	10 to 90 mm Tool (OD) Outer Diameter Support
Machine Weight	150kg to 200 Kg
Machine Dimension in CM	145 (W) X 100 (L) X 175 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Specially Designed For The Metal Recovery Rate Are Higher 99% In Machine Cabinet.
- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Horizontal Head Only One Work Attachment In Machine.
- ▶ CNC Controller Operating System Method In Machine And 5 Axis Support And All Axis Servo Motor 400w + 2 Pcs Precision Planetary Gearbox Fitting.
- ▶ Machine Can Horizontal Single Head Design & Dull Works And Slash Cut Work Supported In Bangle Work + Ring Work + Bead (ball) Work + Half Ball (Bali) Design + Vati Design Support With Change Attachment.
- ▶ Horizontal Head Servo Motor Fitting Mechanically 12000 Rpm & 360 Degree Work Possible.
- ▶ The Machine Into Fitting High Precision LM Guides And Direct Couple With High Precision Ball Screw With Good Alignment Installing



## FLM 4\_VSM V1.1

**CNC Horizontal Bangle - Bead (Ball) - Ring Design Machine**  
4 Axis Automatic (Spindle Motor 60,000 RPM + Pneumatic Tool Change)



**Vertical Head**



**Y-Axis**





## FLM 4\_VSM V1.1

### CNC Horizontal Bangle - Bead (Ball) - Ring Design Machine

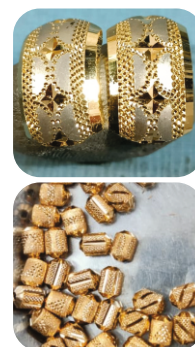
4 Axis Automatic (Spindle Motor 60,000 RPM + Pneumatic Tool Change)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 4_VSM V1.1
Axis Configuration	4 Axis Support
Machine Control Method	Computer with Software control Method
Axis Motor	All Axis Servo Motor 400w Fitting
Vertical Head Motor	Spindle Motor with 1.8kw & 60,000 RPM Water Cooler
Power Supply	Single Phase And 220V to 240V
Vertical Tool Clamping Range	1 mm to 6 mm
Machine Weight	150 to 200 Kg
Machine Dimention in CM	145 (W) X 100 (L) X 175 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Specially Designed For The Metal Recovery Rate Are Higher 99% In Machine Cabinet.
- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Vertical Head Spindle Motor 1.8 Kw with 60,000 RPM with Water Cooler with Pneumatic Tool Change.
- ▶ Computer Software Operatic machine and 4 Axis Support and All Automatic Axis into Servo Motor 400W Fitting.
- ▶ Machine can Vertical Head only Design & Cutting works supported in Bangle Work + Ring Work + Bead (Ball) Work + Half Ball (Bali) Design + Vati Design Support with Change Attachment.
- ▶ The Machine Into Fitting High Precision LM Guides And Direct Couple With High Precision Ball Screw With Good Alignment Installing.



## FLM 4\_VSM V1.0

### CNC Vertical Bangle – Bead (Ball) - Ring Design Machine

4 Axis Automatic (Spindle Motor 24,000 RPM + Manual Tool Change)



#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 4_VSM V1.0
Axis Configuration	4 Axis Support
Machine Control Method	Computer with Software control Method
Axis Motor	All Axis Stepper Motor Fitting
Vertical Head Motor	Spindle Motor with 0.750kw & 24,000 RPM Air Cooler
Power Supply	Single Phase And 220V to 240V
Tool Clamping Range	1 mm to 6 mm
Machine Weight	150 to 200 Kg
Machine Dimention in CM	62 (W) X 52 (L) X 98 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Computer Software Operatic Machine And 4 Axis Support And All Automatic Axis In Stepper Motor 22kgsm (3 Pcs) + 86kgsm (1 Pcs) Fitting.
- ▶ Vertical Head Spindle Motor 0.750 Kw With 24,000 Rpm With Air Cooler With Manual Tool Change.
- ▶ Machine Can Vertical Only Design Works Supported In Bangle Work + Ring Work + Bead (Ball) Work + Half Ball (Bali) Design + Vati Design Support With Change Attachment.
- ▶ The Machine Into Fitting Economical Class LM Guides And Direct Couple With Economical Class Ball Screw With Good Alignment Installing.





## FLM 4\_HSM V1.0

### CNC Horizontal Bangle - Bead (Ball) - Ring Design Machine

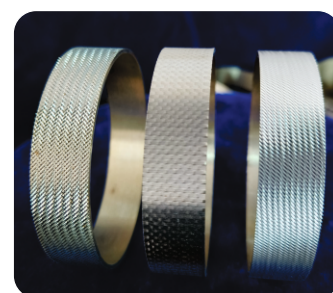
4 Axis CNC (Fix Degree Work Possible)

#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM 4_HSM V1.0
Axis Configuration	4 Axis CNC (Fix Degree Work Possible)
Machine Control Method	Computer Software Operating System Method
Axis Motor	2 Axis Servo Motor 400w + 2 Axis Stepper Motor Fitting
Horizontal Head Motor	Servo Motor 400w & Mechanically 12000 RPM
Power Supply	Single Phase And 220V to 240V
Tool Clamping Range	10 to 90 mm Tool Outer Diameter Support
Machine Weight	150 to 200 Kg
Machine Dimension in CM	65 (W) X 55 (L) X 98 (H) CM
Machine Body	Graded Iron Structure + Graded Aluminium Metal

#### SPECIAL FEATURES

- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Computer Software Operating System Method in Machine and 4 Axis Support and 1 Axis Servo Motor 400w + 3 Axis Stepper Motor Fitting.
- ▶ Horizontal Head Servo Motor Fitting Mechanically 12000 RPM & Fix Degree work possible.
- ▶ Machine Can Single Head Design & Dull works and Slash Cut Work supported in Bangle Work + Ring Work + Bead (Ball) Work + Half Ball (Bali) Design + Vati Design Support with Change Attachment.
- ▶ Horizontal Head Only One Attachment in Machine.
- ▶ The Machine Into Fitting Economical Class LM Guides And Direct Couple With Economical Class Ball Screw With Good Alignment Installing.



## FLM BGM V1.0

### Bangle Grooving Machine

Triangle (Kada) + Half round Bangle Making Machine

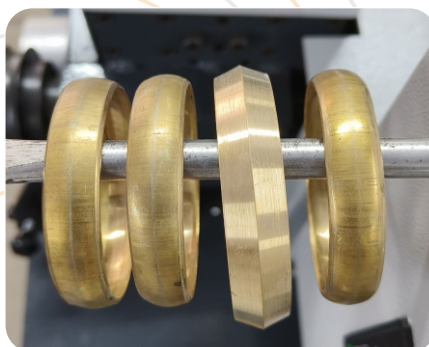


#### THE MAIN TECHNICAL PARAMETER

Model No.	FLM BGM V1.0
Machine Work Method	Automatic Grooving Work for Triangle (Kada) + Half round Bangle
Machine Gear Ration	Heavy Worm GearBox Ration 30 : 1 (Motor RMP 1440 : 48 RPM Gear Box)
Motor Types	AC Induction Motor 1.0 HP / 0.75 Kw
Power Supply	Single Phase And 220V to 240V
Metal Thickness Work	0.250 mm to 3 mm Metal Thickness Support *
Bangle OD Range	2.00, 2.20, 2.40.....To 3.0 Size & 50 mm to 80 mm
Machine Weight	130 Kg Near
Machine Dimention in CM	40 (W) X 50 (L) X 108 (H) CM
Machine Body	Graded Iron Structure

#### SPECIAL FEATURES

- ▶ Easy Operating Method Of Machine With Flexible Work Done.
- ▶ Machine Compact Size with Heavy Work Capacity and Specially Design for Jewellery Manufacturer.
- ▶ Automatics Working Method in Machine and Heavy Gear Wheel Fitting so, Thickness Metal Work Possible.
- ▶ Machine in installation Gauge (MM) Meter for Accurate Deep Position Get in Triangle (Kada) shape and Half-round work Bending.
- ▶ Bangle in After Grooving Work to Get Proper Round Shape maintain with Full Accuracy.





NOTE



## Gauge Conversion to MM

Guage Size	MM Size
1	7.348
2	6.543
3	5.827
4	5.189
5	4.620
6	4.115
7	3.663
8	3.261
9	2.906
10	2.586
11	2.304
12	2.052
13	1.826

Guage Size	MM Size
14	1.626
15	1.448
16	1.290
17	1.148
18	1.024
19	0.912
20	0.813
21	0.724
22	0.643
23	0.574
24	0.511
25	0.455
26	0.404

Guage Size	MM Size
27	0.361
28	0.330
29	0.279
30	0.254
31	0.226
32	0.200
33	0.180
34	0.160
35	0.142
36	0.130
37	0.114
38	0.100

## Bangle Size Chart

Sr. No.	Size	Bangle Diameter Size in mm	Bangle Circumference	Description
1	1.08	40 mm	123 mm	Baby Size
2	1.10	42 mm	129 mm	Baby Size
3	1.12	45 mm	139 mm	Baby Size
4	1.14	48 mm	149 mm	Child Size
5	2.00	50 mm	159 mm	Child Size
6	2.20	55 mm	169 mm	Child Size
7	2.40	57 mm	179 mm	Small Size
8	2.60	60 mm	190 mm	Medium Size
9	2.80	64 mm	199 mm	Medium + Size
10	2.10	67 mm	209 mm	Large Size
11	2.12	70 mm	220 mm	Large + Size
12	2.14	73 mm	230 mm	XL Size
13	2.16	75 mm	239 mm	XL + Size



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## Flame CNC Engineering LLP

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