



ARAZ INNOVATIONS

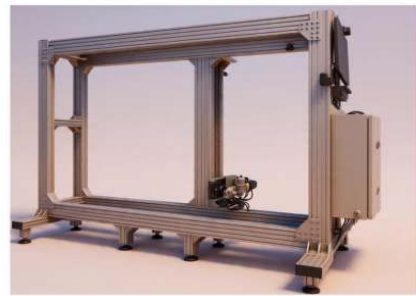
COMPANY CATALOGUE

CNC MACHINERY | AUTOMATION | PRECISION SYSTEMS

Design | Assembly | Manufacturing | Export | Technical Support



CNC GOLD BANGLE MACHINE



CNC TUFTING MACHINE



CNC MINI MOULD MAKING



LASER MARKING MACHINE

PRECISION ENGINEERING FOR MODERN INDUSTRY

Pakistan | Kingdom of Saudi Arabia | International Markets



CATALOGUE CONTENTS

A sequential overview of ARAZ INNOVATIONS machinery and solutions

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COMPANY PROFILE

ABOUT US

Advanced machinery, precision engineering, and dependable technical solutions

ARAZ INNOVATIONS specializes in the import, design, assembly, manufacture, and export of advanced CNC machines, industrial machinery, automation systems, and high-quality technical components. Our core expertise lies in CNC solutions for producing gold bangles, precision jewelry, and other industrial applications. We also supply reliable spare parts and components for household appliances and electrical and electronic equipment. Serving customers in Pakistan, the Kingdom of Saudi Arabia, and other international markets, we are committed to delivering innovative, cost-effective solutions that meet international quality standards, supported by professional installation, maintenance, training, consultancy, technical assistance, and dependable after-sales service.

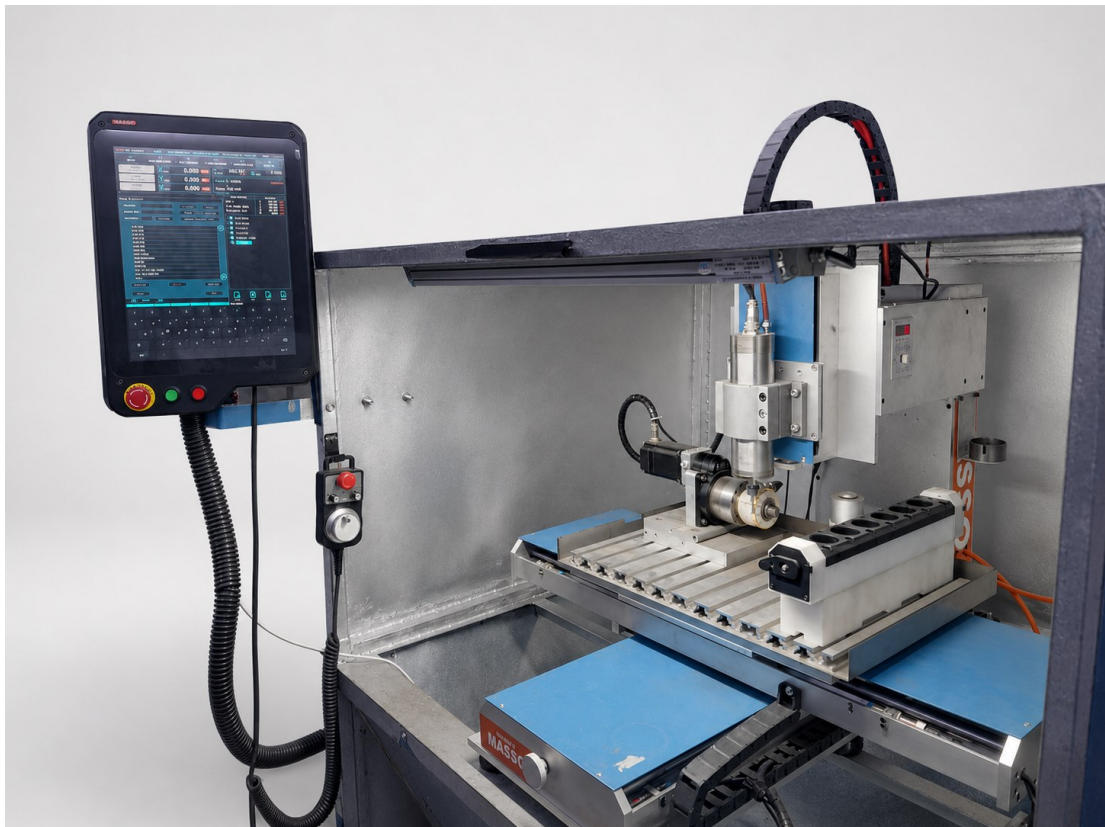
PRODUCT PROFILE

CNC Gold Bangle Machine

Precision machining solution for modern jewelry manufacturing

Product Description

The ARAZ INNOVATIONS CNC Gold Bangle Machine is an advanced manufacturing solution designed for precision cutting, engraving, grooving, and creating intricate decorative patterns on gold bangles. Built to meet the requirements of modern jewelry manufacturers, it combines accuracy, speed, automation, and ease of operation in a reliable production system. The machine supports a wide range of bangle designs, from traditional patterns to detailed contemporary styles, while helping manufacturers achieve consistent quality, reduce manual effort, and improve overall production efficiency. Its unique spindle fail-safe protection system adds an extra layer of operational safety and helps protect the spindle during machining.



Technical Specifications

Specification	Details
Machine Type	CNC Gold Bangle Cutting and Engraving Machine
Primary Applications	Gold bangle cutting, engraving, grooving, and decorative patterning
Axis Configuration	Four-axis: X, Y, Z, and A
Working Travel	583 × 420 × 145 mm (X × Y × Z)
Positioning Accuracy	±0.02 mm
Controller	MASSO G3 Touch CNC controller PC Less
Axis Motor Type	0.9-degree NEMA 23 stepper motors
Motor Holding Torque	2.2 N·m
Spindle Model	GDZ-62-1.2
Spindle Power	1.2 kW
Maximum Spindle Speed	60,000 RPM
Spindle Cooling	Water-cooled
Spindle Diameter	62 mm
Collet Type	ER11
Spindle Voltage	380 V
Rated Spindle Frequency	1000 Hz
Tool-Changer Type	Linear Automatic Tool Changer (ATC)
Tool Capacity	6 pockets
Rotary Reducer Brand	Li-Ming
Rotary Reducer Model	GT-85B
Rotary Platform Type	Precision Hollow Rotary Platform
Gear Reduction Ratio	1:18
Electrical Supply	220 V, single phase
Approximate Dimensions	1000 × 1000 × 1200 mm
Approximate Weight	160 kg
Bangle Diameter Capacity	55-65 mm inner diameter

Supported Bangle Sizes

Size	Inner Diameter	Approx. Hand Circumference
Small (S)	55-57 mm	17-18 cm
Medium (M)	58-60 mm	18.5-19 cm
Large (L)	61-65 mm	19.5-20.5 cm

Note: Hand-circumference figures are approximate.

Finished Bangle Samples

Representative CNC engraving patterns and surface finishes

PRECISION ENGRAVING

PERFECTED BY CNC TECHNOLOGY

Intricate Designs. Flawless Finish. Timeless Beauty.





PRECISION & DETAIL

 HIGH PRECISION
CNC ENGRAVING



INTRICATE DESIGNS

 INTRICATE PATTERNS
PERFECTLY ENGRAVED



FLAWLESS FINISH

 LASTING DURABILITY
BUILT TO LAST



SUPERIOR QUALITY

 ADVANCED TECHNOLOGY
FOR PERFECT RESULTS



CRAFTED TO PERFECTION

 TIMELESS BEAUTY
FOR EVERY GENERATION

INTRICATE DESIGNS | FLAWLESS FINISH | TIMELESS BEAUTY

HIGH PRECISION

CNC ENGRAVING

INTRICATE PATTERNS

PERFECTLY ENGRAVED

LASTING DURABILITY

BUILT TO LAST

ADVANCED TECHNOLOGY

FOR PRECISE RESULTS

ARAZ INNOVATIONS | PRODUCT PROFILE

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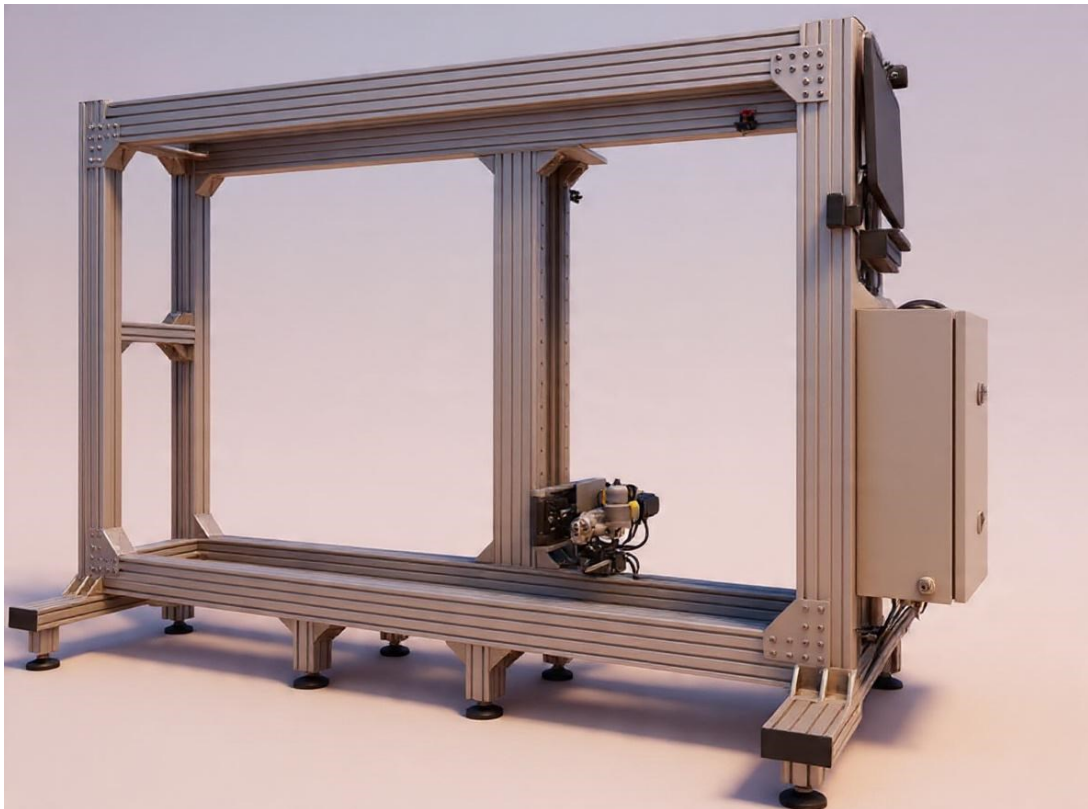
PRODUCT PROFILE

CNC Tufting Machine

Automated tufting for custom rugs, carpet panels, and textile artwork

Product Description

The ARAZ INNOVATIONS CNC Tufting Machine is an automated textile-production solution developed for creating custom rugs, carpet panels, decorative surfaces, and detailed tufted designs. Its coordinated four-axis motion guides the tufting head accurately across the working frame, helping manufacturers, design studios, and creative workshops convert digital patterns into repeatable textile work with reduced manual effort. A rigid aluminium-extrusion structure, feedback-based motion control, and a standalone CNC interface support smooth operation, dependable positioning, and flexible production for prototypes, personalized orders, and small-batch manufacturing.



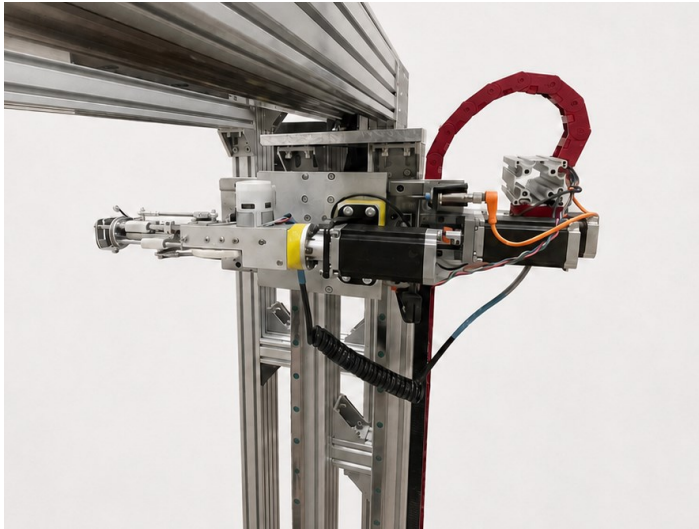
CNC Tufting Machine | 900 x 1800 mm Working Area

Technical Specifications

Specification	Details
Machine Type	CNC Tufting Machine
Primary Application	Automated production of custom rugs, carpet panels, textile artwork, and tufted decorative surfaces
Axis Configuration	Four-axis CNC motion system
Working Area	900 x 1800 mm
Controller	MASSO G3 Touch Controller
Operating Environment	Standalone, PC-less operation through the integrated touchscreen interface
Program Interface	Integrated touchscreen for setup, G-code loading, monitoring, and machine operation
Axis Motors	Closed-loop stepper motors with encoder feedback and external closed-loop drivers
X-Axis Transmission	Rack-and-pinion drive
Y-Axis Transmission	Rack-and-pinion drive
Z-Axis Transmission	Ball-screw drive
Tooling	Integrated motorized rug-tufting head
Structure	Rigid aluminium-extrusion frame with reinforced corner plates
Machine Interface	Integrated touchscreen control; USB and Wi-Fi/MASSO Link may be used for G-code file transfer
Program Format	G-code

Specification note: Only the configuration details supplied for this machine are listed as product specifications. Electrical supply, tufting-gun operating range, machine dimensions, weight, speed, and production capacity should be confirmed for the final production configuration before publication.

Machine & Control System



Actual Tufting-Head Assembly



MASSO G3 Touch | PC-less CNC Control

Key System Features

Feature	Benefit
Four-axis coordination	Controls the gantry and tufting-head functions as a unified CNC process.
PC-less control	Runs machine programs directly on the MASSO G3 Touch without a dedicated CNC computer.
Closed-loop motion	Encoder feedback helps the motor-drive system monitor commanded movement.
Purpose-built transmission	Rack-and-pinion drives support the long X/Y travel, while the Z-axis ball screw provides controlled tool positioning.
Digital production workflow	Accepts G-code programs generated from a compatible design and toolpath workflow.

Configuration note: Tufting-head accessories, closed-loop motor sizes, electrical requirements, and the final supply scope will be matched to the ordered production configuration and confirmed in the commercial quotation.

TUFTED RUG SAMPLE PRODUCTS



PRODUCT PROFILE

CNC Mini Mould Making Machine

Compact precision machining for moulds, engraving, and detailed craftwork

Product Description

The ARAZ INNOVATIONS CNC Mini Mould Making Machine is a compact, versatile machining solution developed for precision mould production, detailed engraving, and three-dimensional or flat carving work. It is suitable for producing small moulds and for processing decorative items, handicrafts, plaques, pendants, ornaments, and other intricate components in compatible materials. Combining stable construction, smooth motion, efficient operation, and user-friendly control, the machine helps workshops achieve consistent results, reduce manual effort, and handle a wide range of precision manufacturing and creative applications. Its unique spindle fail-safe protection system adds an extra layer of operational safety and helps protect the spindle during machining.



CNC Mini Mould Making Machine



MASSO G3 Touch | PC-less Control

Technical Specifications

Specification	Details
Machine Type	CNC Mini Mould Making and Engraving Machine
Model	GD-6060
Axis Configuration	Three-axis: X, Y, and Z
Optional Configuration	Fourth-axis mechanism
X/Y Working Travel	600 × 600 mm
Z-Axis Travel	200 mm (customizable)
Maximum Working Speed	6,000-8,000 mm/min
Transmission	High-precision ball screws on all three axes
Maximum Feed-In Speed	80 mm; optional over 80 mm (supplier stated)
Resolution	0.005 mm
Repeat Positioning Accuracy	0.05 mm
Command Codes	G*, U00*, MMG*, and PLT (supplier stated)
Operating Environment	Standalone, PC-less operation through the integrated MASSO G3 Touch interface
Spindle Power	2.2 ~ 5.5 KW
Spindle Cooling	Water-cooled or air-cooled spindle
Spindle Speed	0-24,000 RPM
Electrical Supply	AC 380 V / 220 V
Working Table	Worktop with sink
Axis Drive System	Stepper motors or Servo motors with servo drives (optional)
Guide Rails	20 mm HIWIN square linear guide rails
Controller	MASSO G3 Touch CNC controller
Compatible Software	ArtCAM, Vectric, PowerMill and Type3
Lubrication System	Full lubrication system with automatic oil filling
Base Frame	Heavy-duty tubular-steel construction

Configuration note: This profile uses the requested MASSO G3 Touch controller and servo-drive configuration in place of the source PDF's DSP and stepper system. Supplier-stated items should be confirmed before publication.

Warranty Coverage: 1 year for the complete machine

CNC SHOE MOULD / DIE

SAMPLE COLLECTION

ARAZ
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Precision-machined tooling concepts for footwear production

01



Athletic Outsole Injection Mould

CNC-MACHINED FOOTWEAR TOOLING

02



EVA Midsole Compression Mould

CNC-MACHINED FOOTWEAR TOOLING

03



Safety Boot Outsole Mould

CNC-MACHINED FOOTWEAR TOOLING

04



Shoe Last / Upper Forming Die Set

CNC-MACHINED FOOTWEAR TOOLING

05



High-Heel Sole & Heel Mould

CNC-MACHINED FOOTWEAR TOOLING

06



Multi-Cavity Sandal Sole Mould

CNC-MACHINED FOOTWEAR TOOLING

PRODUCT PROFILE

Laser Marking Machine

Precision marking for professional identification and branding

Product Description

The ARAZ INNOVATIONS Laser Marking Machine is a compact, precision-focused solution developed for clean, consistent, and highly detailed marking. Designed for professional identification, branding, and decorative applications, it helps businesses achieve repeatable quality while reducing manual effort and improving productivity. Its straightforward operation, stable performance, and space-conscious design make it a dependable choice for workshops and production environments that require polished, accurate marking results.



Product image shows the UV configuration; appearance may vary by selected laser source.

Technical Specifications

Specification	Details
Machine Type	Laser Marking Machine
Work Area	110 × 110 mm
Marking Speed	≤ 7,000 mm/s
Positioning Precision	≤ 0.01 mm
Marking Depth	0–0.1 mm
Minimum Character Height	0.2 mm
Laser Source Options	UV, JPT, MAX, and Raycus
UV Power Options	3 W / 5 W / 10 W
JPT / MAX / Raycus Power Options	20 W / 30 W / 50 W / 100 W
Scanning Head	SINO-GALVO RC1001
Focusing Lens	JGZOE
Column Height	50 cm
Control Software	EZCAD
Power Supply Unit	Taiwan Meanwell PSU
Cooling Mode	Water cooling for the supplied UV configuration; other configurations may vary
Supported File Formats	BMP, GIF, JPG, PCX, TGA, TIFF, PLT, CDR, DWG, and DXF
Packing Size (as supplied)	130 × 40 × 75 mm
Gross Weight	75 kg

Configuration note: The image and listed component details reflect the supplied UV configuration; components and performance may vary with the selected laser source and power. Packing dimensions are reproduced exactly from the supplied data.

Warranty Coverage

Coverage	Warranty Period
Complete Machine	1 year
Main Components	2 years

LASER MARKING & ENGRAVING

FINISHED PRODUCT SAMPLES

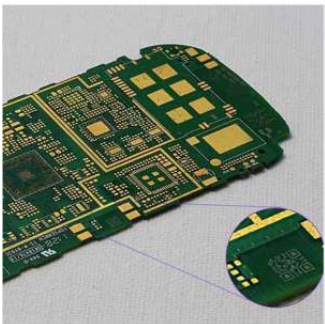
Representative UV and JPT fiber laser results across popular production materials



Glassware, Bottles & Crystal Products



Decorative Glass & Perfume Bottles



PCB QR Codes & Micro-Marking



Cosmetic Packaging & Product Branding



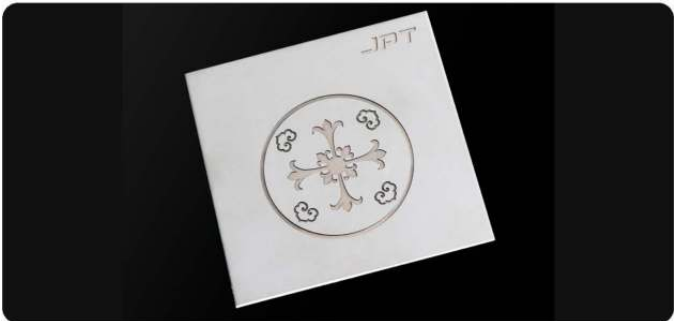
Color Marking on Stainless Steel



Jewelry, Rings & Personalization



Black Marking on Anodized Aluminum



Fine Detail Engraving on Metal



ARAZ INNOVATIONS

**ENGINEERED FOR PRECISION
BUILT FOR PROGRESS**

CNC MACHINES | AUTOMATION SYSTEMS | INDUSTRIAL SOLUTIONS

INSTALLATION | TRAINING | MAINTENANCE | AFTER-SALES SUPPORT

SERVING PAKISTAN, KSA AND INTERNATIONAL MARKETS