

# FAGNER

 **2F**multimedia  
Editoria & Tecnologia



The logo for 'ben MAKER' features three interlocking gears of different sizes above the word 'ben' in a bold, lowercase sans-serif font, with the word 'MAKER' in a smaller, all-caps sans-serif font directly below it.

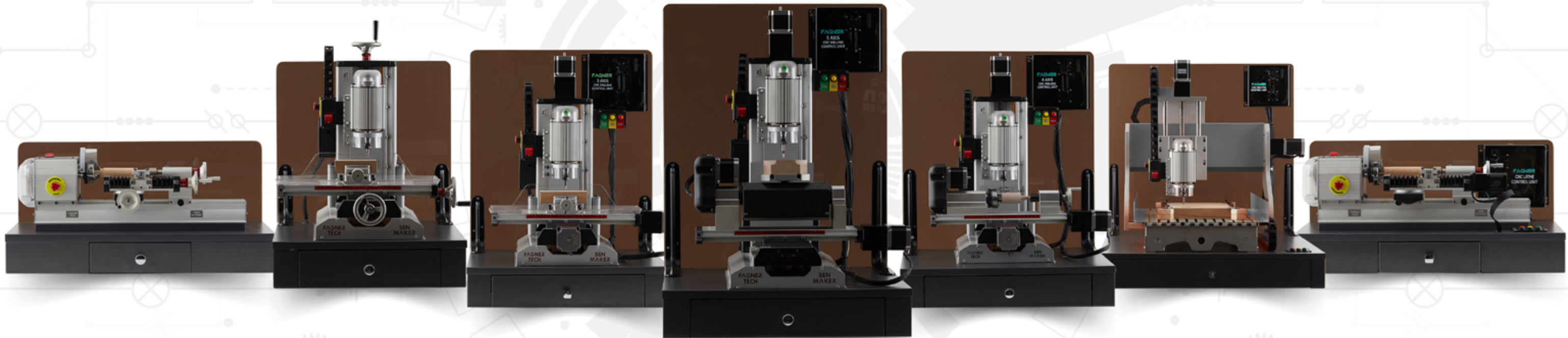
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# FAGNER

## WHO ARE WE?

BenMaker has been carrying out its production activities in Bursa since 2016. BenMaker aims to accelerate individuals to develop their hand skills and gain professional competence with the educational tools and equipment produced 100% domestically in Turkey. BenMaker bring traditional and modern production methods together with users with Wooder which instill a love of production at an early age with design and styling sets; EKSER, which offers three-dimensional design and technology support; FAGNER product groups, which enable professional knowledge and competencies to be acquired quickly and practically.

BenMaker contributes to the raising of productive generations in more than 1000 institutions and organizations all around the world, with products.



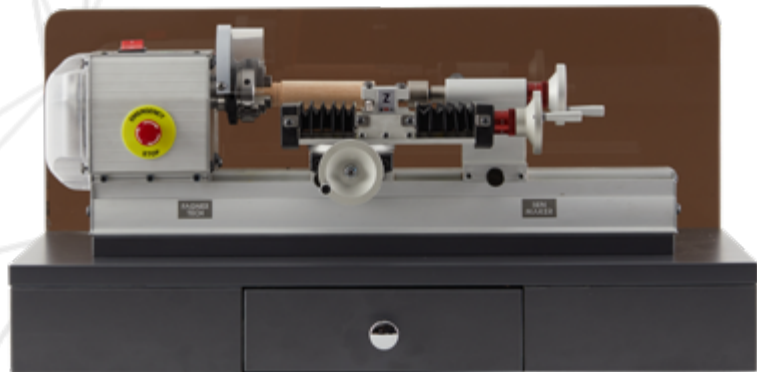
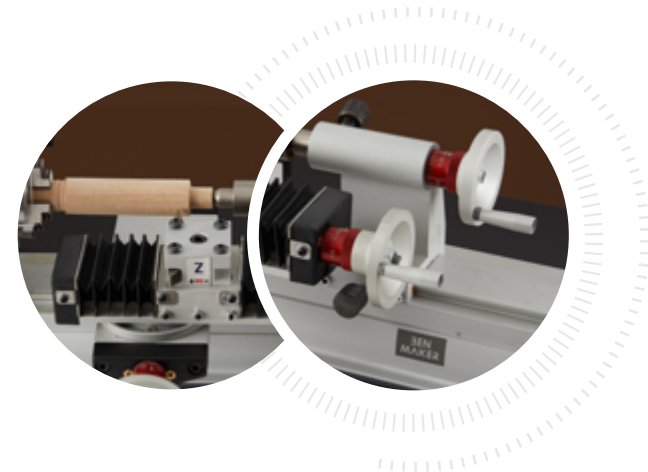
MADE IN  
TURKEY





# MANUAL LATHE

FAGNER Manual Lathe Module, which provides the opportunity to perform diameter processing, stepped and taper turning processes with the use of cylindrical wood and plastic materials, support the first steps taken in production.

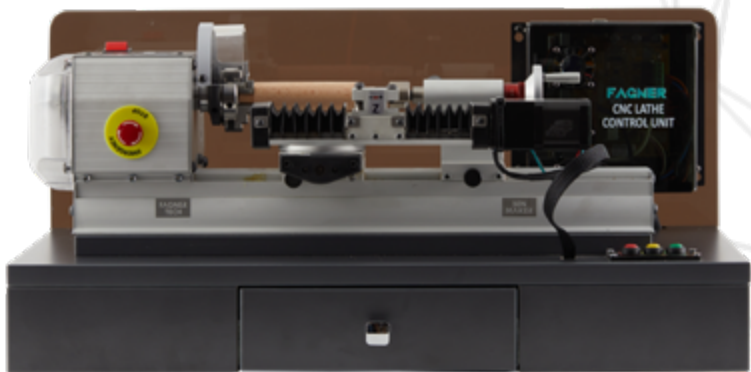
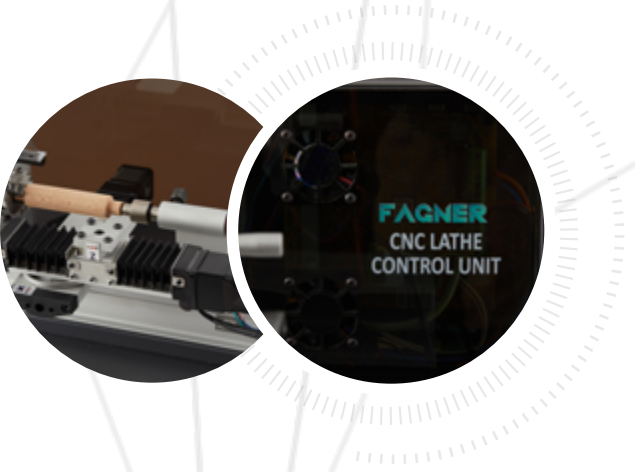



Product Code:	BM.BNM.23300
Field of Use:	Training and Training-Based Production
Revolutions Per Minute:	5000 RPM
Spindle Motor:	320 Watt - 24 Volt DC
Chuck Clamping Diameter:	Ø28 mm
Transaction Length:	235 mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:650 mm Y:450 mm Z:350 mm
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle HSS (High Speed Steel)
Formable Materials:	Wood, Plastic and Model Materials
Functions:	Facing Diameter Turning Taper Turning Grooving Stepped Turning

\*It can be used as a disassembled kit or as assembled machine.

# CNC LATHE

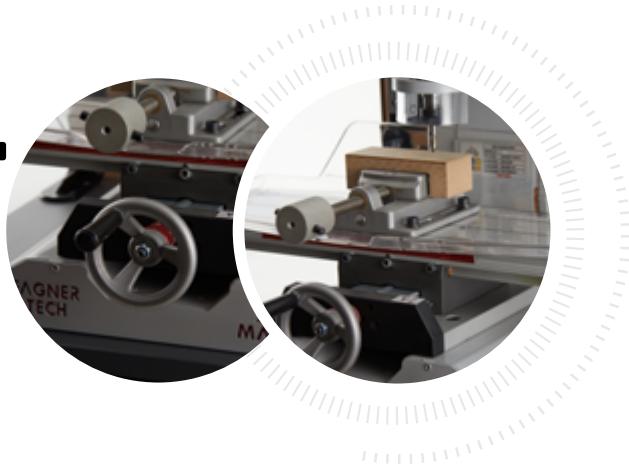
The users complete the forming processes for every workpiece, which CAD and CAM processes have been completed, with CNC Lathe functions. CNC Lathe processes CAM operations of .DXF drawing file which is based on with GRBL GRU.



Product Code:	BM.BNM.21100
Field of Use:	Training and Training-Based Production
Revolutions Per Minute:	5000 RPM
Spindle Motor:	320 Watt - 24 Volt DC
Chuck Clamping Diameter:	Ø28 mm
Transaction Length:	235 mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:650 mm Y:450 mm Z:350 mm
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle HSS (High Speed Steel)
Electronic Properties:	Domestically Produced CNC Control Card  Step Motor USB Port Connection GRBL GRU CNC Control Software Support
Formable Materials:	Wood, Plastic and Model Materials
Functions:	Facing Diameter Turning Taper Turning Grooving Stepped Turning

# 3 AXIS MANUAL MILLING

Grooving, cascade processing and turnout processes are performed at the same time with the FAGNER 3-Axis Manual Milling, which enables shaping process to wood, plastic and model materials.



Product Code:	BM.BNM.23000
Field of Use:	Training and Training-Based Production
Motion Space:	3-Axis
Revolutions Per Minute:	7000 RPM
Spindle Motor:	90 Watt - 24 Volt DC
Transaction Area:	X:245 mm Y:75 mm Z:85mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:550 mm Y:520 mm Z:650 mm
Clamp Width Between Two Claws:	55 mm
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle 350x108 mm T Slot Table (M6 Standard) ER11 spindle taper with forceps
Formable Materials:	Wood, Plastic and Model Materials

\*It can be used as a disassembled kit or as assembled machine.

# 3 AXIS CNC MILLING

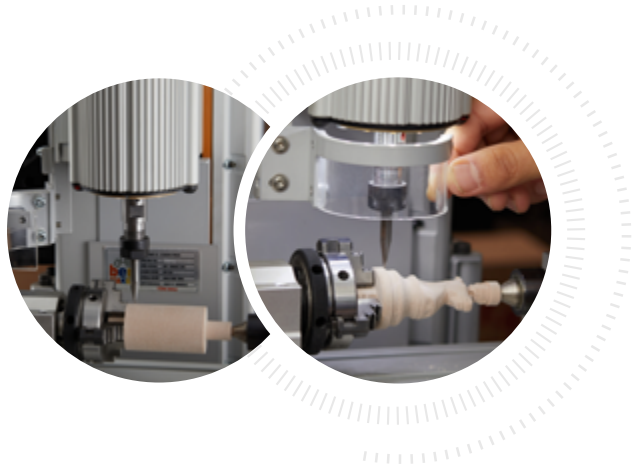
The user can process the model, whose CAM process has been completed, with the functions of the FAGNER 3-Axis CNC Milling. Operations can be completed such as two-dimensional contour processing, pocket emptying from the DXF protrusive drawing file with the support of GRBL GRU software.




Product Code:	BM.BNM.23100
Field of Use:	Training and Training-Based Production
Motion Space:	3-Axis
Revolutions Per Minute:	7000 RPM
Spindle Motor:	90 Watt - 24 Volt DC
Transaction Area:	X:245 mm Y:75 mm Z:85mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:550 mm Y:520 mm Z:650 mm
Clamp Width Between Two Claws:	55 mm
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle 350x108 mm T Slot Table (M6 Standard) ER11 spindle taper with forceps
Electronic Properties:	Domestically Produced CNC Control Card Step Motor USB Port Connection GRBL GRU CNC Control Software Support
Formable Materials:	Wood, Plastic and Model Materials

# 4 AXIS CNC MILLING

4-Axis CNC Milling, developed with a focus on education, comes to the fore with its simultaneous working feature. Users of 4-Axis CNC Milling have the opportunity to generate 4-Axis CAM codes by performing projection on cylindrical surface from two-dimensional DXF files together with GRBL GRU software.




Product Code:	BM.BNM.23200
Field of Use:	Training and Training-Based Production
Motion Space:	4-Axis
Revolutions Per Minute:	7000 RPM
Spindle Motor:	500 Watt - 24 Volt DC
Transaction Area:	X:245 mm Y:75 mm Z:85mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:550 mm Y:480mm Z:680mm
Workpiece:	A maximum of Ø20 mm workpiece can be attached to the chuck with dividing head Maximum Ø20mm and Ø70mm workpiece gradually can be connected. The workpiece length can be a maximum of 100 mm.
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle 350x108mm T Slot Table (M6 Standard) ER11 Spindle Taper With Forceps Divisor, Chucking and Opposite Tailstock
Electronic Properties:	Domestically Produced CNC Control Card  Step Motor USB Port Connection GRBL GRU CNC Control Software Support
Formable Materials:	Wood, Plastic and Model Materials

# 5 AXIS CNC MILLING

5-Axis CNC Milling offers the opportunity to shape the workpiece at two different angles with high precision with advanced kinematic equations as well as X-Y-Z axes. In addition to its simultaneous working feature, it creates outputs of 5-Axis CAM program codes.

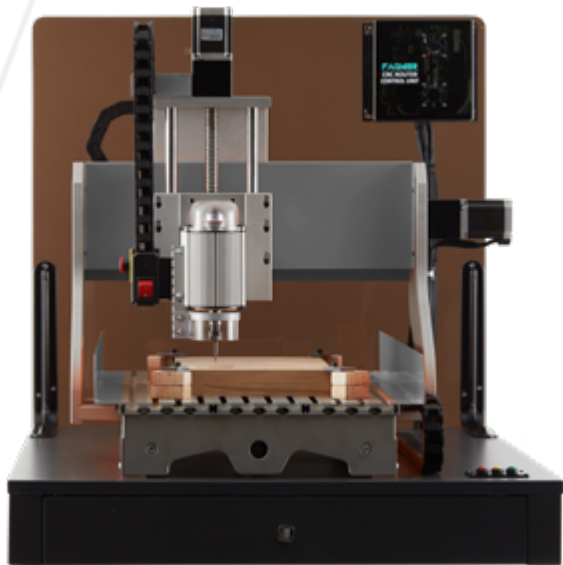
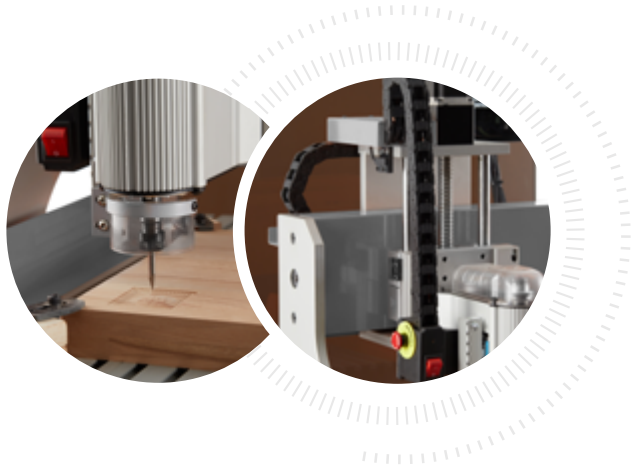



Product Code:	BM.BNM.23300
Field of Use:	Training and Training-Based Production
Motion Space:	5-Axis
Revolutions Per Minute:	7000 RPM
Spindle Motor:	500 Watt - 24 Volt DC
Transaction Area:	X:245 mm Y:75 mm Z:85mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:550mm Y:470mm Z:760mm
5-Axis Plate Dimension:	100 mm x 100 mm
Workpiece:	Maximum dimensions of workpiece should be 70mm x 70mm x 70mm.
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle 350x108mm T Slot Table (M6 Standard) ER11 Spindle Taper With Forceps Divisor, Chucking and Opposite Tailstock
Electronic Properties:	Domestically Produced CNC Control Card  Step Motor USB Port Connection GRBL GRU CNC Control Software Support
Formable Materials:	Wood, Plastic and Model Materials



# CNC ROUTER

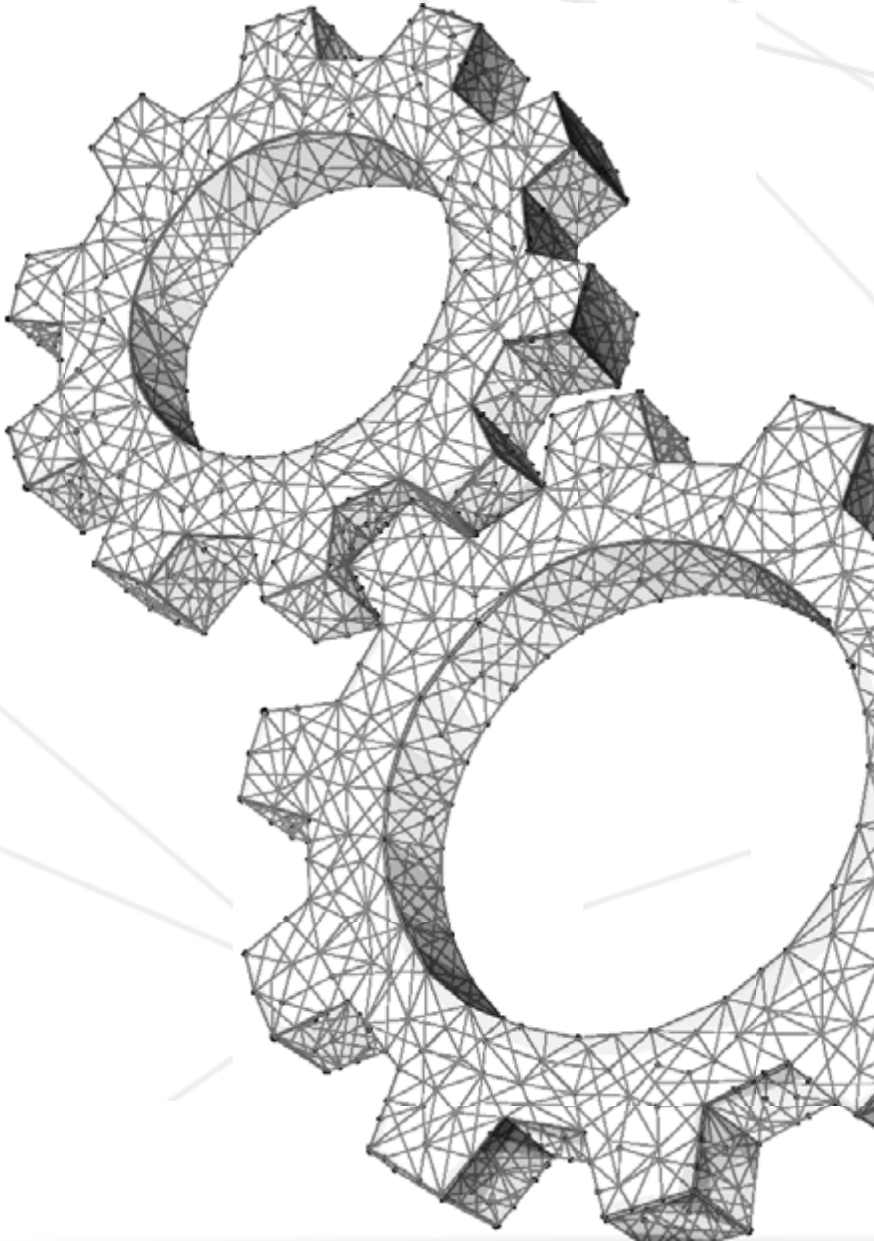
CNC Router can process models whose CAM process has been completed, and operations such as two-dimensional contour processing and pocket emptying can be performed from the DXF extension drawing file. With its wide processing area, users are offered the opportunity to obtain products that are aimed to be produced in different sizes.



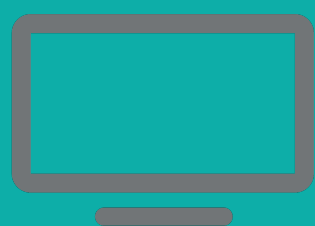
Product Code:	BM.BNM.16351
Field of Use:	Training and Training-Based Production
Motion Space:	3-Axis
Revolutions Per Minute:	7000 RPM
Spindle Motor:	500 Watt - 24 Volt DC
Transaction Area:	X:300 mm Y:450mm Z:85mm
Sensitivity of Forming:	0.05 mm
Body:	Aluminium Extrusion
Machine Dimensions:	X:845mm Y:720mm Z:760mm
Mechanical Properties:	Dovetail Cushioning Powered With Trapezium Axle 350x650mm T Slot Table (M6 Standard) ER11 spindle taper with forceps
Electronic Properties:	Domestically Produced CNC Control Card  Step Motor USB Port Connection GRBL GRU CNC Control Software Support
Formable Materials:	Wood, Plastic and Model Materials

You can get all the materials that you need from our online store! You can continue to produce your dreams!

Profiles of FAGNER products are supported by GRBL GRU.



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