

886-4-9251-1395

CONTENTS

Servo Drive Table Up **Broaching Machine**

Servo drive table-up broaching machines apply cutting-edge broaching technology for advanced precision, longer tool life, and better power efficiency. The working height is the same as most of the devices such as lathes. milling machines, etc., making it very easy to integrate automation.



03

Broaching Machine

Axisco's CNC helical broaching machine is built to make any internal helical angle precisely and efficiently. With this machine, you don't need high technical skills to make a complex helical shape with high accuracy and a good surface finish.



Hydraulic Surface **Broaching Machine**

AXISCO specializes in hydraulic surface broaching machines and customized machines such as auto broach cleaner, hydraulic fixtures, broach tools, and so on.



CNC Broach Tool Resharpening Machine

Broaching is a machining process that uses a toothed tool, called a broach, to remove material. In linear broaching, the broach is run linearly against the surface of the workpiece to effect the cut. Linear broaches are used in a broaching machine, which is also sometimes shortened to broach.



Entities Photo

We have customers all over the Automobile. motorcycle, gear, hand tools, lock, hydraulic valve, electrical parts business.



15 **Broaching Machines**

Industry Applications

Our customers are all over the gerospace. automobile, gear, bicycle, hand tools, locks, hydraulic valve parts. electronic parts, and various hardware industries.



BROACH TOOL RE-SHARPENING MACHINE

The machine has heavy duty design for long life time. Re-sharpening for different broach tool hook angle and pitch. Fast and easy to set up and oper-





Hydraulic Internal Spline Broaching Machine

AXISCO offers internal spline broaching machines, with one-time spline broaching, efficient production, accurate location, and high speed broaching.



FST. 1984

ABOUT AXISCO

Established in 1984, Axisoo Precision Machinery Co., Ltd. built its name by helping customers in more than thirty countries with broaching turnkey solutions.

The solutions are including electrical-mechanical table-up broaching machines, CNC helical broaching machines, hydraulic internal broaching machines, hydraulic surface broaching machines, broach tools, fixtures, training, and so on.

Axisco's main factory is in Taiwan. Two additional Sales & Service offices are located in China and the US.



CERTIFICATION

Axisco is an ISO9001:2015 certified company with annual audits and training. Other certificates, such as D-U-N-S Registered for the company, CE certification, and the patents for the products, are also renewed annually.



ISO 9001:2015



CHU, CHX-CE



150 9001:2008



CHI-CE



D-U-N-5



YST-CE



2018 TAIWAN EXCELLENCE



HISTORY

1984

Established in 1984. Axisco developed the first customized machine tool.



1991

Axisco developed the first broaching



1999

Axisco hit the sales of 1000 machines.

2003

Axisco acquired SGS ISO9001 certification.

2007

Axisco acquired TUV ISO9001 & CE certification.

2009

Axisco acquired TUV ISO9001: 2008 certification.



2010

Axisco developed vertical table up broaching machine. Axisco developed automation for broaching machine. Axisco supplied machine to more than 30 countries in the world.



2011

Axisco acquired D&B D-U-N-S REGISTERED certification.



Axisco acquired the 26th Taiwan Excellence Award.



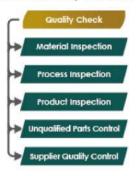
2018

Axisoo increased the registered capital to 8 million USD. The new headquarter with 5000 sq. meters. Axisco acquired ISO 9001: 2015 certification. Axisco started the office in North America.

QUALITY MANAGEMENT

Quality Check

In manufacturing, there are inspections in the material, the process, and the products. The unqualified parts and the quality improvement of the suppliers are seriously controlled.



Quality Assurance

Not only us but also suppliers and customers are all involved in the quality system. It helps to do the right thing from the beginning, and make sure we do it right in every process.



INSPECT REMOTELY

The machinery industry highly depends on mutual visits in factory checks, contract negotiation, machine inspections, etc. When having machine inspections, it is challenging to let buyers feel confident about machine quality when they can not see and touch the machine themselves. Luckily, with the application of the internet and technology, those are no longer problems.

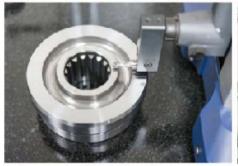






MEASURING EQUIPMENT

There are professional inspection instruments including Mitutoyo CRYSTA-Apex S500 Coordinate Measuring Machine, Mitutoyo Linear Height Measuring Machine, Rockwell Hardness Tester, Profile Projector, etc. We can provide full support for your product inspection requirements.





















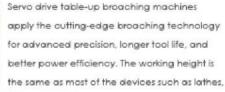


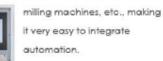
Servo Drive Table Up **Broaching Machine**



- √The machine is equipped with servo motor and ball screw, consistent broaching speed,low vibration, increase the tool life by up to 20%.
- √ Compare with the traditional hydraulic machine, the electrical mechanical design saves up to 40% electricity.
- $\sqrt{}$ The HMI makes it easy to operate and diagnose the machine.
- √ Adjust the broaching speed and stroke through HMI.
- \sqrt{No} pit needed for electrical mechanical broaching machine, easy for automation.
- √ The broach retriever holds the broach to reduce vibration during broaching.
- √CE certified safety design with easy maintenance.
- √ Control: MITSUBISHI · FANUC · AB · SIEMENS





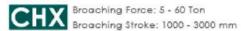














CNC HELICAL BROACHING MACHINE

Highlight







Medic

Axisco's CNC helical broaching machine is built to make any internal helical angle precisely and efficiently. With this machine, you don't need high technical skills to make a complex helical shape with high accuracy and a good surface finish.





- √The broach rotates while the table goes up.
- √The helical angle is controlled by CNC.
- √ Equip servo motor and ball screw, consistent speed, low vibration, increase tool life up to 20%.
- √ Compare with traditional hydraulic machine, the electrical mechanical design saves up to 40% electricity.
- $\sqrt{}$ The HMI makes it easy to operate and diagnose the machine.
- √ Adjust the broaching speed and stroke through HMI.
- $\sqrt{}$ No pit needed for electrical mechanical machine, easy for automation.
- $\sqrt{}$ The broach retriever holds the broach to reduce vibration during broaching.









Hydraulic Internal Broaching Machine



- √ Broaching internal spline or keyway.
- √ One-time spline broaching, increase production efficiency.
- √ Accurate location, high speed broaching, high accuracy.
- √ Heavy duty design, long life time.
- √37 years experience on fixture design.
- √ Infinitely variable broaching force/speed.
- √ Automatic load/unload system available.
- √ Automatic broach tool retriever.
- √ Up to 3 broaching station.
- √ CE specification based on requirement.

AXISCO offers internal spline broaching machines, with one-time spline broaching, efficient production, accurate location, and high speed broaching.











√ Control: MITSUBISHI · FANUC · AB · SIEMENS

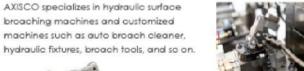




Hydraulic SURFACE BROACHING MACHINE



- √The surface of the workpiece.
- √ Accurate location, high speed broaching, high accuracy.
- $\sqrt{}$ One-time spline broaching, increase production efficiency.
- √ Heavy duty design, build for last.
- √37 years experience in fixture design.
- √ Stepless broaching speed adjustment.
- √ Can be equipped with auto loading/ unloading system.
- √ Up to 3 broaching station.
- √CE specification based on requirement.











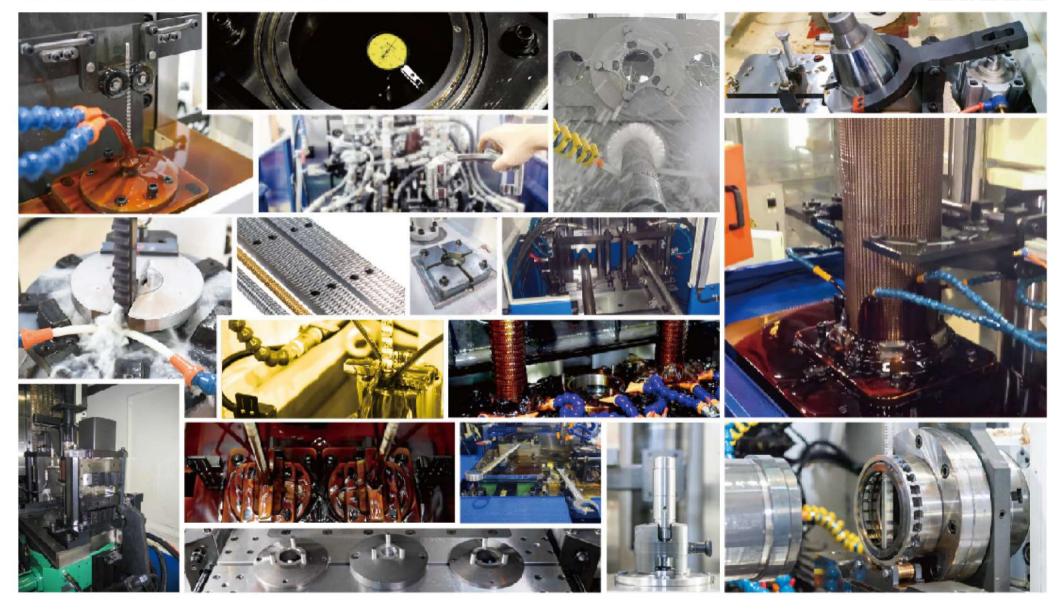






BROACHING APPLICATION

axisco



AUTOMATION APPLICATION

axisco

















Good Broach Re-sharpener is the Key to Long-term Broach Performance

Broach

Broach is a customized cutting tool. The cost to make the broach tool is high; however, the per-piece manufacturing cost is quite low which makes it ideal for mass production. Even in products with less quantity, broaching is still economical for its short cycle time with high precision and stable quality.

The Re-sharpening of the Broach

To achieve precise cutting result with good surface finish, the broach has to be re-sharpened after hundreds to thousands times of cutting. The re-sharpening interval depending on the material and cutting condition of the work piece. In general, a broach can be re-sharpened for eight to ten times. The conventional broach re-sharpener is a budgetary choice which requires skilled users. The CNC broach re-sharpener is an ultimate solution that users can program and run the re-sharpening automatically.



Workpice Sample

Surface Broach

Surface Broach

Serration Broach

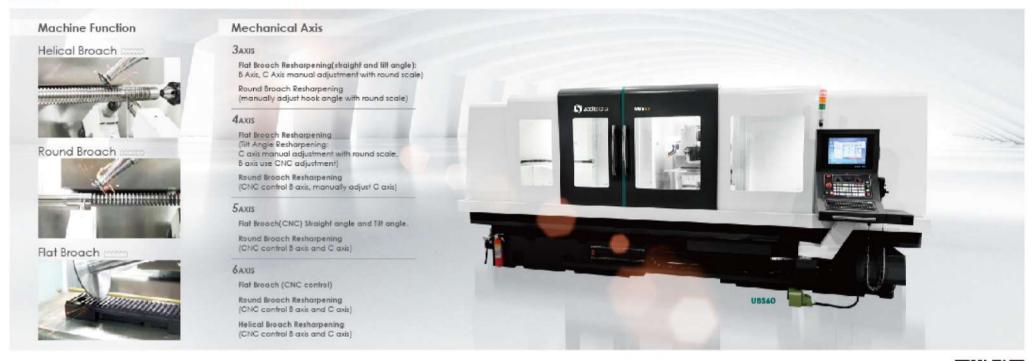
Special Shape Broach

Special Spline Broach

Special Spline Broach







CNC BROACH TOOL RESHARPENING MACHINE

Machine Model		UBS60				UBSBO			
Mechanical Axis	X Axis	60 Inch / 1500mm			80 Inch / 2000mm				
	Y Axis	8 Inch / 200 mm							
	Z Axis	10 Inch / 250 mm							
	A Axis	N	/A	360'		N/A		360'	
	B Axis	N/A	0-90"	N/A	0-90"	N/A	0-90'	N/A	0-90"
	C Axis	N/A		±30'		N/A		±30'	
Motor	х	1.5 kW				1.8 kW			
	Υ	1.5 kW				1.8 kW			
	Z	1.5 kW				1.8 kW			
	A	3 HP Motor			3 kW	3HP Motor		3 kW	
	В	Manual	1.5 k	W	1.8 kW	Manual	1.5 %	w	1.8 kW
	С	N	/A	1.2 kW		N/A		1.2 kW	
Capacity	Minimum Tool Dia.	0.8 Inch / 20 mm							
	Maximum Tool Dia.	6 Inch / 150 mm							
Spindle	Grinding Wheel Speed MAX.	10000 RPM							
CNC System	Control Model	MEDIBORE MOD	TANUC: DIME	FANUC or	MESUBSHI	MELESTEME	TANUC: OWNT	FANICo	r MESU8544









* Auto chip filtration system

*8 sizes up to 90 Inch Tool Length







Grinding Wheel Speed(MAX): 10000 RPM

▲ Alignment setting

Grinding position detection











Helical broach

BROACH

The internal helical broaches are mostly applied in helical transmission systems.



Round broach

Round broaches are finishing broaches used for high precise round hole, the round broach has the polish teeth to improve the surface up to 0.005mm.



Spline broach

The Spline broaches are used to transmission system to improve the transmission structure.



Involute spline broach

The Involute Broach are used in automotive mass-production, the alternating spline and round teeth and increase the precise.



Involute gear broach

Involute gear Broach are used in decelerate or transmission devices.



Special shape broach

Various complicated formed broaches can manufacture such as Outer Rotor Spline or Special shape or size.



Surface Broach

Surface broaching, also known as external broaching, refers to cutting single grooves, multiple grooves, or special shapes on an object's surface or edge.

