



AXISCO

成祐精機股份有限公司
AXISCO PRECISION MACHINERY CO., LTD.



www.twaxisco.com

Broaching Solution

Supplied to more than 30 countries



EST. 1984



INNOVATION



QUALITY



R&D



SERVICE



C.S

About AXISCO

Established in 1984, Axisco Precision Machinery Co., Ltd. started its business from making special purpose machinery (SPM) and soon focused itself into broaching turnkey solutions. Members of Axisco consider themselves as “King Maker” who are eager to help customers become kings in their fields. With more than 30 years of experience working with customers from many different industries and countries, Axisco knows what you need and how to do the right thing.

In Axisco’s broaching machine line, there are hydraulic internal broaching machines, hydraulic surface broaching machines, electromechanical table top broaching machines, & CNC helical broaching machines. The professional team are experienced in providing broaching solution with different tonnage and stroke, as well as a variety of customized mechanism, fixture, tool, and automation requirements.

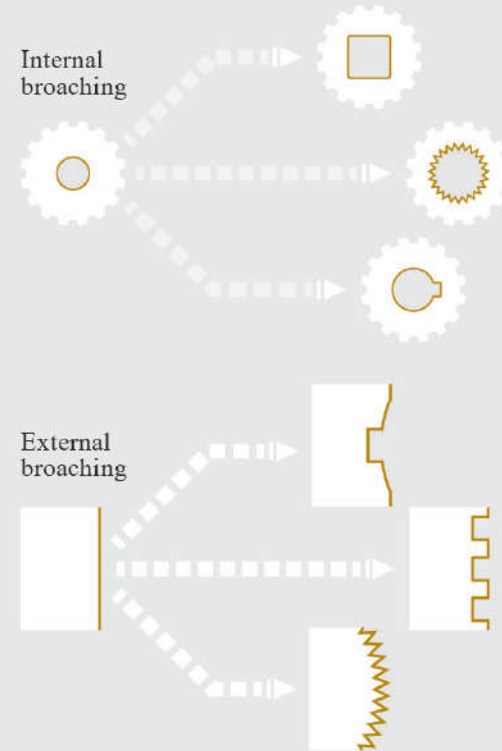
History

- 1984** — Established in Xitun District, Taichung City. The first multifunctional SPM was made.
- 1988** — Plant expansion. Shift to Taiping District, Taichung City.
- 1991** — Broaching machine division was started.
- 1998** — Deep hole drilling machine division was started.
- 1999** — 1000 machines had been sold.
- 2003** — Acquired SGS ISO 9001 certificate
- 2007** — Acquired TUV ISO 9001 & CE certificate
- 2009** — Acquired TUV ISO 9001:2008
- 2010** — Expanded registered capital to 23,000,000 NTD
- 2011** — Acquired D&B D-U- N-S REGISTERED certificate
- 2013** — With the increase of business, 3 rd Plant was set.
- 2014** — Exported up to 30 countries.
- 2016** — New factory project was started, the area is about 5000 square meter.



What is a broaching machine?

The machine which is used for cutting complicated shape in one pass by rising of teeth size.



Quality Certificate



D-U- N-S REGISTERED certificate



ISO Certificate



CE Certificate



CE Certificate



High Precision Table Up Broaching Machine

Features

- Broaching is done by table up, the broach is stationary during cutting.
- The broach is hold by lifter to reduce vibration during cutting.
- Save 20% or more energy compare with hydraulic system.
- Smaller machine size, less space requirement.
- Intuitive operation interface.
- Broaching, tool cleaning, tool lifting, chips cleaning are done automatically.
- Customized 1 – 3 station design is available.
- Auto loading & unloading system can be integrated.



Model number		CHU-0308	CHU-0510	CHU-0813	CHU-1013
No. of station		1	1	1	1
Broaching force	ton	3	5	8	10
Max. stroke	mm	800	1000	1300	1300
Broaching speed	m/min, 60Hz	3~7.2	3~7.2	3~7.2	3~7.2
Return speed	m/min, 60Hz	12.5	12.5	12.5	12.5
Max. workpiece size	mm	φ 240	φ 250	φ 250	φ 300
Working table height	mm	850	1000	1050	1050
Main power	kw	3.8(5HP)	5.6(7.5HP)	7.5(10HP)	11.25(15HP)
Machine height	mm	2900	3100	3800	3800
Floor dimension	mm	1500x2100	1500x2100	1550x2100	1650x2100

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Close-up Photos AXISCO



NC/ CNC Table Up Broaching Machine

Standard Accessories

Jig

- Maintenance tool kit
- Auto puller
- Auto lubrication system.
- Coolant circulation system
- PLC control
- Leveling pads and bolts

Operation Accessories

- CE certificate
- Ladder
- Broach
- Auto lifting device
- Hydraulic puller head
- Hydraulic lifter head
- Pneumatic tool cleaning device
- Human machine interface (HMI)
- Waterproof working light (IP67)
- Chip conveyor
- Auto unloading device
- Auto loading device



Video



Model number		CHU-1516	CHU-1516-2	CHU-2016	CHU-2016-2
No. of station		1	2	1	2
Broaching force	ton	15	15	20	20
Max. stroke	mm	1600	1600	1600	1600
Broaching speed	m/min, 60Hz	3~7.2	3~7.2	3~7.2	3~7.2
Return speed	m/min, 60Hz	12.5	12.5	12.5	12.5
Max. workpiece size	mm	φ 300	φ 180	φ 300	φ 180
Working table height	mm	1100	1100	1300	1300
Main power	kw	18.75(25HP)	18.75(25HP)	30(40HP)	30(40HP)
Machine height	mm	4450	4450	4700	4700
Floor dimension	mm	1800x2200	1800x2200	2100x2500	2100x2500

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CNC Helical Broaching Machine



Standard Accessories

- Jig
- Maintenance tool kit
- Chip conveyor
- Hydraulic puller
- Hydraulic lifting device
- Pneumatic tool cleaning device
- Auto chip cleaning system
- Auto lubrication system.
- Coolant circulation system
- Syntec pc-based control system
- Waterproof working light (IP67)
- Leveling pads and bolts

Operation Accessories

- CE certificate
- Broach
- Hydraulic puller head
- Hydraulic lifter head
- Fanuc cnc control system
- Auto unloading device
- Auto loading device



Video

Model number	CHX-0308	CHX-0510	CHX-0813
No. of station	1	1	1
Broaching force	ton 3	5	8
Max. stroke	mm 800	1000	1300
Helix angle	degree 0~30°	0~30°	0~30°
Broaching speed	m/min, 60Hz 3~7.2	3~7.2	3~7.2
Return speed	m/min, 60Hz 12.5	12.5	12.5
Max. workpiece size	mm ϕ 240	ϕ 250	ϕ 250
Working table height	mm 850	1000	1050
Main power	kw 3.8(5HP)	5.6(7.5HP)	7.5(10HP)
Cnc controller	SYNTEC	SYNTEC	SYNTEC
Machine height	mm 2900	3100	3800
Floor dimension	mm 1500x2100	1500x2100	1550x2100

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Features

- Helical broaching is done by table up, the broach rotates synchronously during cutting.
- Full electromechanical with intuitive PC-based interface.
- The operator stands on the ground. No need for any hole or ladder.
- The broach is hold by lifter to reduce vibration during cutting.
- Smaller machine size, less space requirement.
- Broaching, tool cleaning, tool lifting, chips cleaning are done automatically.
- It can be integrated with auto loading & unloading system.



Model number	CHX-1013	CHX-1516	CHX-2016
No. of station	1	1	1
Broaching force	ton 10	15	20
Max. stroke	mm 1300	1600	1600
Helix angle	degree 0~30°	0~30°	0~30°
Broaching speed	m/min, 60Hz 3~7.2	3~7.2	3~7.2
Return speed	m/min, 60Hz 12.5	12.5	12.5
Max. workpiece size	mm ϕ 300	ϕ 300	ϕ 300
Working table height	mm 1050	1100	1300
Main power	kw 11.25(15HP)	18.75(25HP)	30(40HP)
Cnc controller	SYNTEC	SYNTEC	SYNTEC
Machine height	mm 3800	4450	4700
Floor dimension	mm 1650x2100	1800x2200	2100x2500

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AXISCO Close-up Photos



Features

- Make internal keyway, spline, or profile.
- Finish the shape in one pass.
- Fast, precise, and easy to operate.
- Rigid body design.
- Stepless speed and pressure adjustment.
- Auto lifting device is available.
- Customized 1 – 3 station design is available.
- Auto loading & unloading system can be integrated.



Model number		CHI-0306/0308/0310	CHI-0508/0510/0512	CHI-0810/0813
Broaching force	ton	3	5	8
Max. stroke	mm	600/800/1000	800/1000/1200	1000/1300
Broaching speed	m/min, 60Hz	3~10	3~8	3~8
Return speed	m/min, 60Hz	2~17	2~17	2~14
Max. workpiece size	mm	φ 300	φ 300	φ 350
Working table height	mm	1535/1735/1935	1740/1940/2140	1910/2210
Working table area	mm	360x500	380x600	400x700
Main power	kw	3.8(5HP)	5.6(7.5HP)	7.5(10HP)
Machine height(without lifter)	mm	2510/2910/3310	2450/2850/3250	3420/4020
Floor dimension	mm	1150x1350	1300x1550	1400x1900

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Close-up Photos **AXISCO**



High Precision Hydraulic Internal Broaching Machine

Standard Accessories

- Jig
- Maintenance tool kit
- Chip conveyor
- Hydraulic puller
- Hydraulic lifting device
- Pneumatic tool cleaning device
- Auto chip cleaning system
- Auto lubrication system.
- Coolant circulation system
- Human machine interface (hmi)
- Waterproof working light (ip67)
- Leveling pads and bolts

Operation Accessories

- CE certificate
- Broach
- Hydraulic puller head
- Hydraulic lifter head
- Auto unloading device
- Auto loading device



Video



Model number		CHI-1010/1013/1015	CHI-1513/1515	CHI-2015/2018
Broaching force	ton	10	15	20
Max. stroke	mm	1000/1300/1500	1300/1500	1500/1800
Broaching speed	m/min, 60Hz	3~8	3~8	3~8
Return speed	m/min, 60Hz	2~12	2~12	2~12
Max. workpiece size	mm	φ 420	φ 460	φ 550
Working table height	mm	2010/2310/2550	2460/2625	2585/2885
Working table area	mm	450x800	480x900	600x960
Main power	kw	11.3(15HP)	18.8(25HP)	30(40HP)
Machine height(without lifter)	mm	4030/4630/5030	4750/4900	4910/5810
Wloor dimension	mm	1600x1800	1720x2000	1900x2280

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High Precision Hydraulic Surface Broaching Machine



Standard Accessories

Jig

- Maintenance tool kit
- Auto lubrication system.
- Coolant circulation system
- PLC control
- Leveling pads and bolts



Video

Operation Accessories

- CE certificate
- Ladder
- Broach
- Pneumatic tool cleaning device
- Human machine interface (HMI)
- Waterproof working light (IP67)
- Chip conveyor
- Auto unloading device
- Auto loading device

Model number	YST-0306/0308	YST-0508/0510	YST-0808/0810
Broaching force	ton 3	5	8
Max. stroke	mm 600/800	800/1000	800/1000
Broaching speed	m/min, 60Hz 3~8	3~8	3~8
Return speed	m/min, 60Hz 2~17	2~17	2~14
Max. workpiece size	mm ϕ 280	ϕ 320	ϕ 380
Working table height	mm 830/900	900/1050	900/1050
Working table area	mm 300x470	300x540	360x620
Main power	kw 3.8(5HP)	5.6(7.5HP)	7.5(10HP)
Machine height	mm 2000/2200	2250/2700	2400/2800
Floor dimension	mm 1150x1350	1250x1550	1360x1700

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Features

- Make external slot, spline, or profile.
- Finish the shape in one pass.
- Fast, precise, and easy to operate.
- Rigid structure design.
- Stepless speed and pressure adjustment.
- Rotary table can be integrated to reduce loading time.
- Customized 1 – 3 station design is available.
- Auto loading & unloading system can be integrated.



Model number	YST-1010/1013	YST-1512/1515/1518	YST-2015/2018
Broaching force	ton 10	15	20
Max. stroke	mm 1000/1300	1200/1500/1800	1500/1800
Broaching speed	m/min, 60Hz 3~8	3~8	3~8
Return speed	m/min, 60Hz 2~12	2~12	2~12
Max. workpiece size	mm ϕ 480	ϕ 520	ϕ 520
Working table height	mm 1100/1400	1250/1600/1900	1600/1900
Working table area	mm 480x730	420x850	480x850
Main power	kw 11.3(15HP)	18.8(25HP)	30(40HP)
Machine height	mm 3000/3900	3450/4350/5250	4500
Floor dimension	mm 1520x2000	1700x2100	1850x2200

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AXISCO Close-up Photos



High Efficiency Broaching Re-sharpener



Features

- Different cutting angle and pitch can be set to re-sharpen broaches.
- The setting is fast and easy.
- High strength cast iron machine body.

External Broach Re-sharpener

Model Number	GRE-800	GRE -1500
Max. Broach Length	mm 800	1500
Control	Hand wheel with linear scale	Hand wheel with linear scale



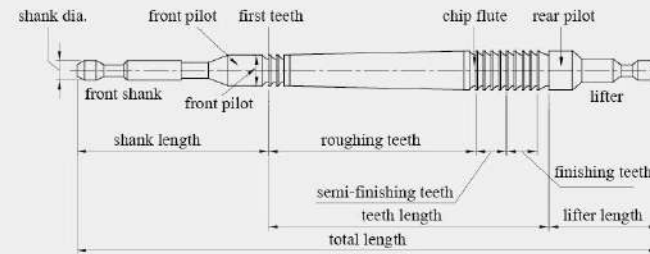
Internal Broach Re-sharpener

Model Number	GRI-800	GRI -1500
Max. Broach Length	mm 800	1500
Control	Hand wheel with linear scale	Hand wheel with linear scale



Close-up Photos AXISCO

Introduction of Broach



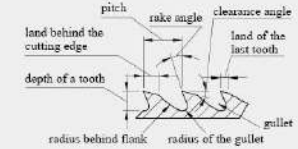
Type of shank

- (1)insert pin
- (2)auto puller
- (3)thread
- (4)side pin

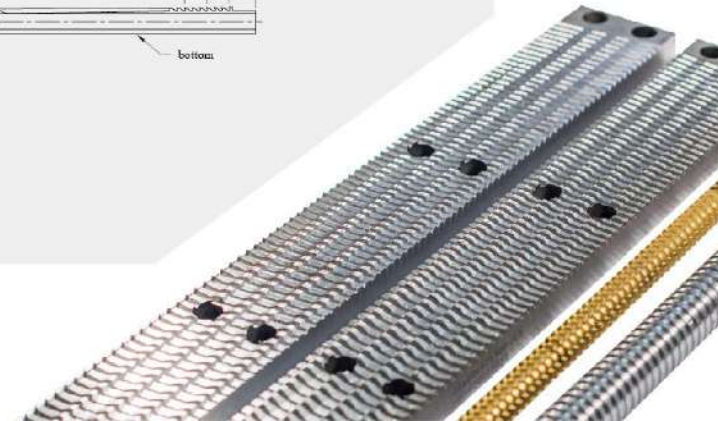
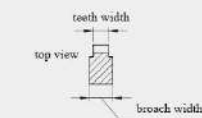
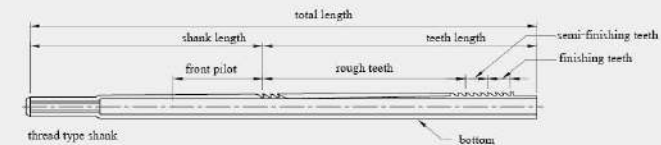
Type of lifter

- (1)N type
- (2)round type
- (3)flat type

Teeth detail



Keyway Broach



Customized Design



Broaching is the best solution for making complicated profile in large quantity.

With more than thirty years of experience in broaching machine manufacture, Axisco is well known as a customized turnkey broaching solution provider with on time delivery, good life, intuitive operation & amp; easy maintenance.



button interface



human machine interface (HMI)



auto broach lifter



crane

Precision/ Efficiency/ Stable



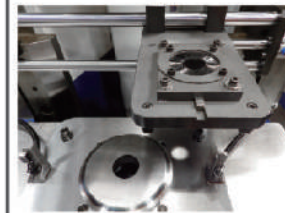
broach



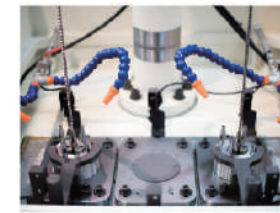
auto loading/ unloading device



conveyor



auto chip cleaning device



1-3 station



hydraulic lifting table



screw magnetic chip conveyor



scraper type chip conveyor



magnetic chip conveyor



safety stairs