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Facebook

AccuteX

Maintenance service

## Environmental Requirements

| | |
|---|---|
| **Power Source** | AC220V / AC380V / AC400V / AC415V ±5% :3 Phases 50/60Hz±1Hz |
| **Temperature** | 20±1°C or 25±1°C； less than 75%RH |
| **Environment** | 1. The machine should not be placed near punching machine,drilling machine or any interfering sources.<br>2. The machine should not be placed near heat treatment or electroplate systems.<br>3. The machine be placed in an airtight room to keep dust out.<br>4. Before machine positioning, pay attention to machine movement during operation and the space needed for maintenance.<br>5. Solid foundation of horizontal error should be less than 20μm. |
| **Earth construction** | Earth resistance below 10Ω: separate the earth terminal with other machines. |
| **Pneumatic pressure** | 6 kg / $cm^2$ (Applicable for machine with AWT system) |

*All the specifications are subject to change without prior notice.

AccuteX

The Pioneer Of Taiwan Wire Cut EDM

# Wire Cut EDM

The Best Solution of CNC Wire EDM Technology

## AP AZ AU GA Series

Speed / Accuracy / Roughness / Stability


2011年 小巨人獎

2012年 國家磐石獎

經營技術典範獎 BEST PRACTICE AWARD FOR OPERATIONS TECHNOLOGY
2018年 國家品質獎

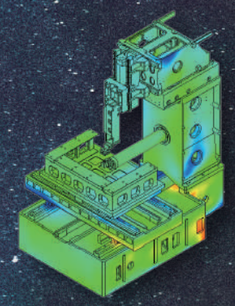
52Q22131
ISO 9001 : 2015

台灣精品 2023 TAIWAN EXCELLENCE

www.accutex.com.tw

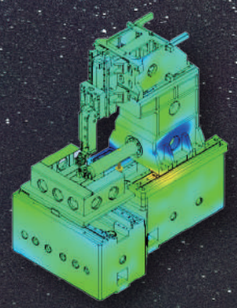
## The whole machine serial lineup


## Machine Structure



### AZ Series

AZ series has a "Direct Force" design on the concept of X/Y axes linear guideway blocks keep staying in a straight line.
The working table is supported by casting bases. AZ series is suitable for precision mold cutting within small/medium strokes.



### AP Series

AP series casting has a compound table design by Y-axis column moving. The center of gravity is always located between 2 linear guideways of X axis table. X and Y axes are independent without accumulation error for less deformation by FEA (Finite Element Analysis).
Improved maximum loading weight is up to 1000kgs. The Bi-repeatability is less than 2.5μm after 5 times laser calibration.

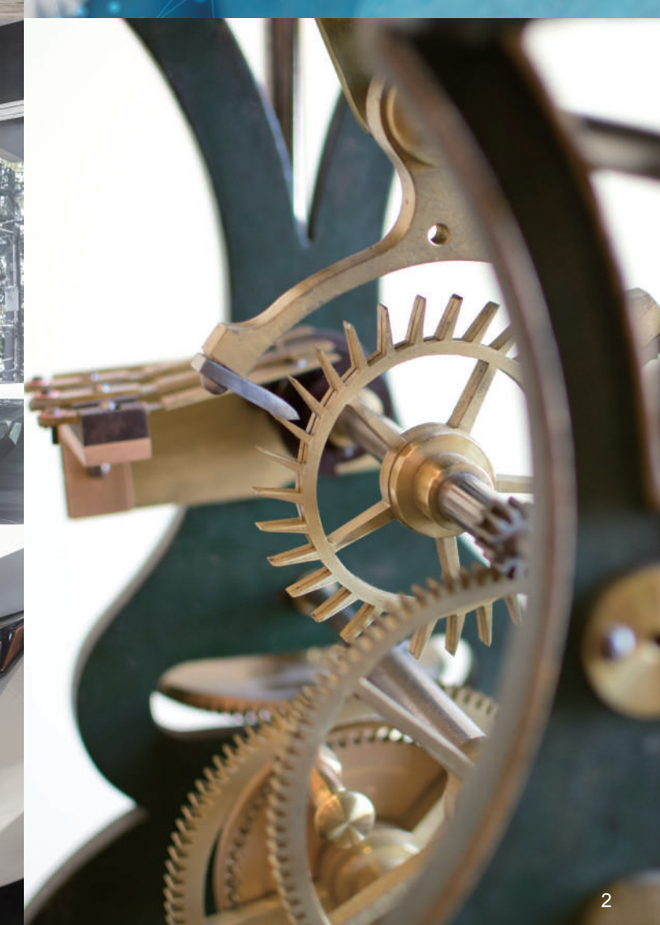


# HIGH-TECH INDUSTRY

## High-tech industrial Applications

- Aerospace Application
- Medical parts
- Electric vehicle
- Molds



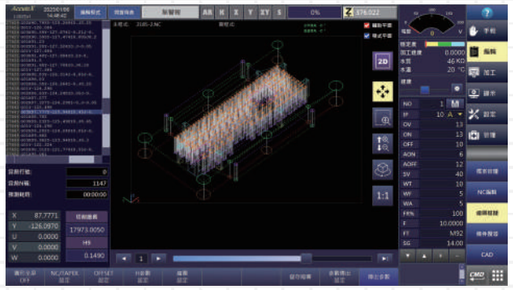


# New Windows controller

## Motor Torque Monitoring System

100% automatic torque measurement of machine full stroke

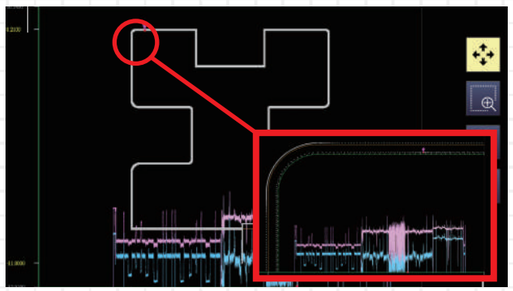
Press one single key to kick off the auto-measurement of the full stroke torque, one single execution before cutting to realize the torque status of the full stroke operation. Ensures this is interference-free machining on the machine.



## Fast drawing performance

Drawing speed increased by 300% and is able to have 3D full viewing

For large-scale programs, drawing smoothly and quickly, switch between 2D / 3D viewing, and viewing all detail position. In 3D mode, drag to change the viewing angle, and use the mouse wheel to zoom, clearly check the cutting path and improve the processing quality.



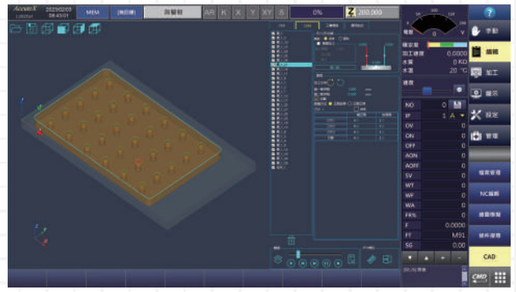
## Processing history library

Processing History Search Record

The processing speed, discharge gap voltage, and other processing information are recorded by multi-tools in the whole path, and the user can quickly browse and check the processing process, Especially for the corner arc path and finishing process, the final machining result can be confirmed.

## EtherCAT level control system

Dual industrial-grade PCs are equipped with high-performance CPUs and adopt Ethernet serial architecture to achieve high-speed and real-time synchronous motion.The convenient EtherCAT universal expandability enables the machine to have more intelligent applications.



## Built-in CAD/CAM

Process the complete POST-process before the cutting on the machine

The new controller has built-in the specified third-party post-processing software which supports loading the CAD drawing files. The NC program can be generated on the machine after the standard post-process.

## Automatic alignment

Faster, more accurate, one-click automatic processing

Press one button to complete the automatic plate width, outer circle, inner square hole, four-sided center, and other calibration procedures. Different wire diameters can be matched with different wire tension and the wire speed settings. PICK-program is available to achieve full automation and unmanned operation. With the new edge-seeking function, the accuracy of the mold calibration is up to 3μm.

**Features of the new remote hand box**

- Lightweight Design
- Handheld ergonomics
- Built-in LED flashlight function


EtherCAT

Screen size | 21.5 inches
Hardware device | physical, virtual keyboard
Network equipment | wi-fi

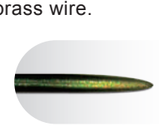


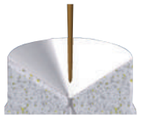



# New generation of AWT, more Reliability and Repeatability.

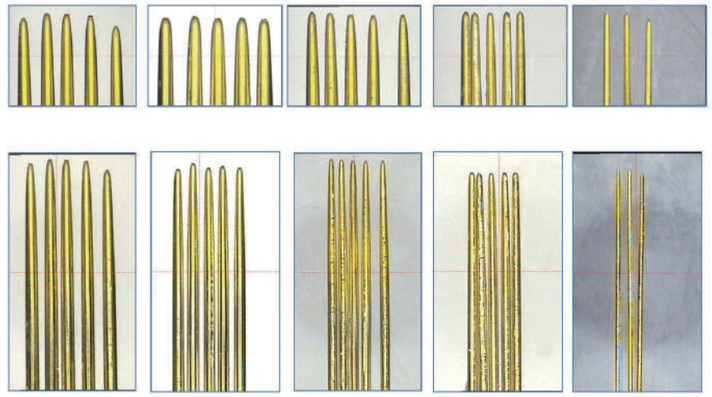
Inherit the features of high reliability and easy maintenance of the AccuteX AWT function, the new generation has improved the straightening and wire cutting mechanism (patent pending), and equipped with a new type of straightening, annealing, and cutting power supply. This enables the wire to have better straightness and wire end quality, and achieve a higher success rate in threading through high thickness workpieces. The new mechanism is suitable for wire diameters from 0.1mm to 0.3mm(*). (*) standard brass wire.

AccuteX





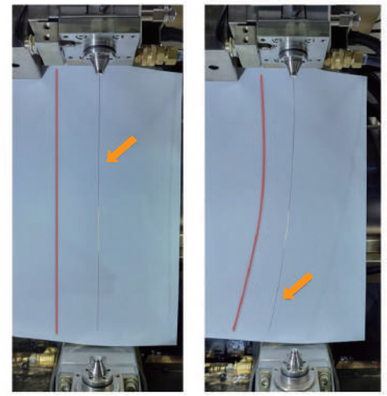
| wire size | 0.3 mm | 0.25 mm | 0.2 mm | 0.15 mm | 0.1 mm |
|---|---|---|---|---|---|
| X 120 | | | | | |
| X 32 | | | | | |



<Having Excellent wire-end in each size of wire>

Wire with AccuteX's annealing process

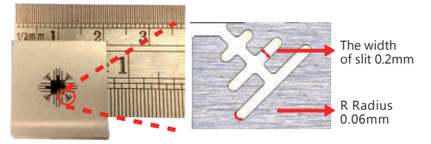
Wire without AccuteX's annealing process



<High repeatability after wire annealing>


**0.07~0.1mm Fine Wire (Opt.)**

0.07mm Fine wire application is 90% sucessfully threading under 30mm Z axis height which is suitable for micro-machining applications.



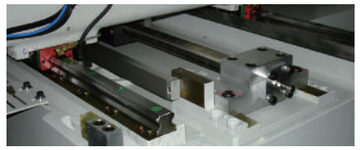

**Micro Spinning Tungsten Steel Mold**

Spinneret projection mold was cutted by 0.07mm wire.
The average width of slit is 0.2mm after 5 cuts.
The smallest radius is 0.06mm.

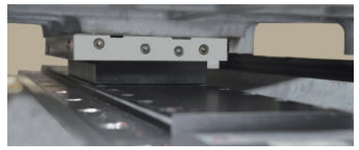
## Linear Motor

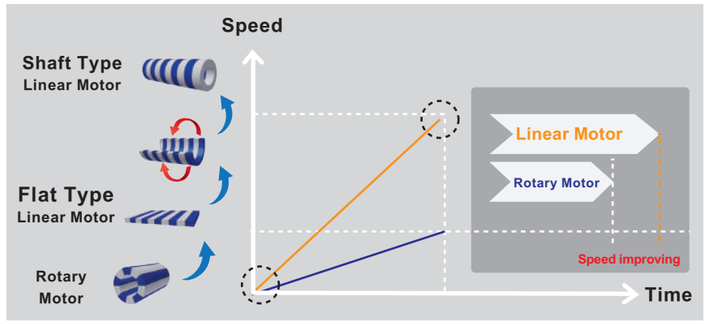
The total solution in linear motor, with the best resolution of 0.1μm full-closed loop servo control, non-contact transmission makes the machine backlash-free and long-term precision guarantee. The high-sensitivity response feature improves cutting speed by 8~10%. And improves operating safety with an anti-collision mechanism.

**Shaft Type**
**Linear Motor**



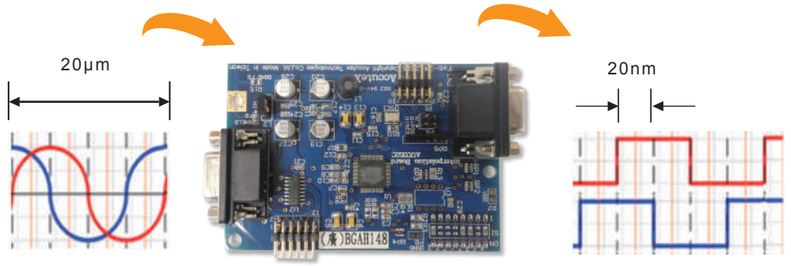
**Flat Type**
**Linear Motor**



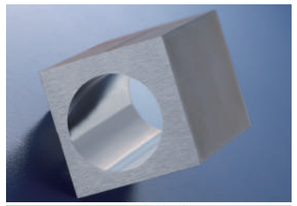


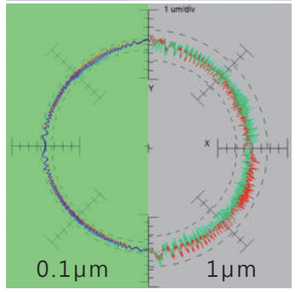

## High Resolution Signal Processor

The high-resolution signal processor achieves more smooth velocity control and enhances the stability of position control. It can match up the best contouring accuracy.




< The best resolution for standard scale can narrow down to 20nm. >





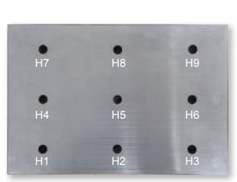

(Different Linear -Scale Resolution)

## High Cutting Accuracy Performance

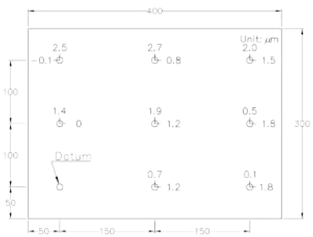
The best pitch accuracy is less than ±3μm in 9 holes mold cutting (size: 400x300x30mm).
The working conditions are by SKD-11 material after 4 cuts under temperature and environment control.

**(*) Performed by AP-4030A-0.1μm Linear scale**

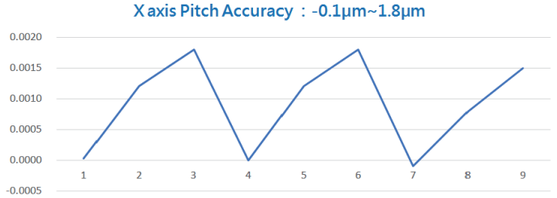
**(*) The cutting conditions must follow AccuteX's provisions.**



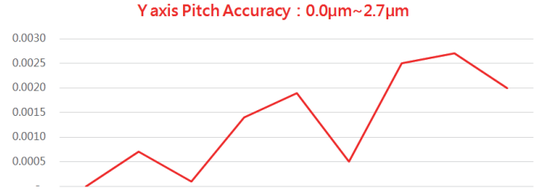

| | |
|---|---|
| Material | SKD-11 |
| Thickness | 30mm |
| Passes | 4 Passes |




X axis Pitch Accuracy : -0.1μm~1.8μm



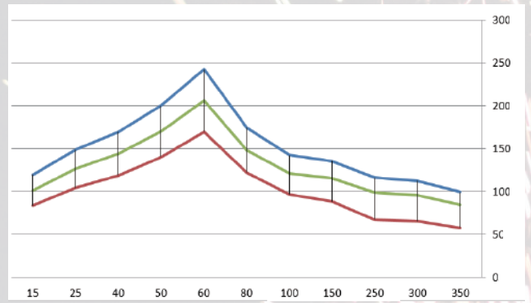

Y axis Pitch Accuracy : 0.0μm~2.7μm





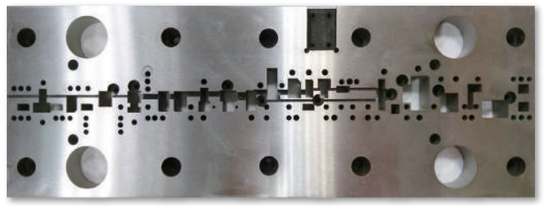

## Cutting Efficiency Comparison

AccuteX has simplified the generator and electric circuits to eliminate unnecessary power loss and improve cutting efficiency. Speed comparison table with other brands in different thicknesses of workpieces.




## Stable Discharge Board (SD Master)


< Stable Discharge Board (SD Master) >



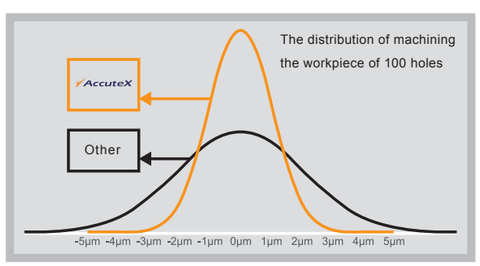
< High Precision Progressive Stamping Mold >

**High repeatability** — High repeatability in accuracy by applying the same cutting data on different machines, the consistence enhances the workpiece quality and simplifies management procedure.

**High speed cutting** — High speed cutting by SD-Master in stable discharge power which stabilize the cutting process, especially under high-speed mode.

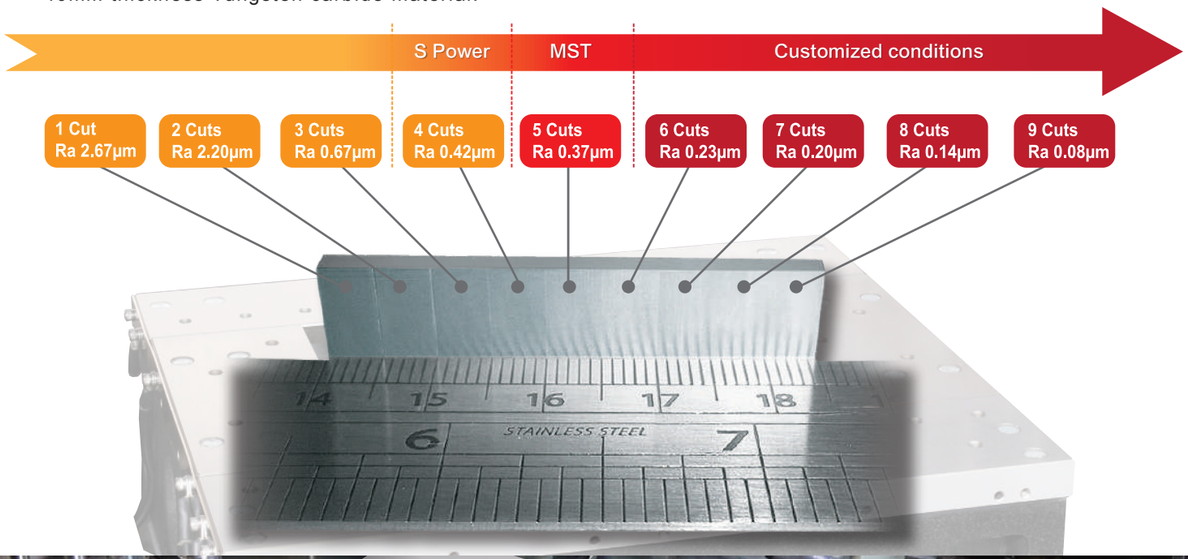
**High repeatability in accuracy** — By cutting 100 holes of 6mm continuously, 95.45% of all workpieces accuracy are within ±1.5μm.

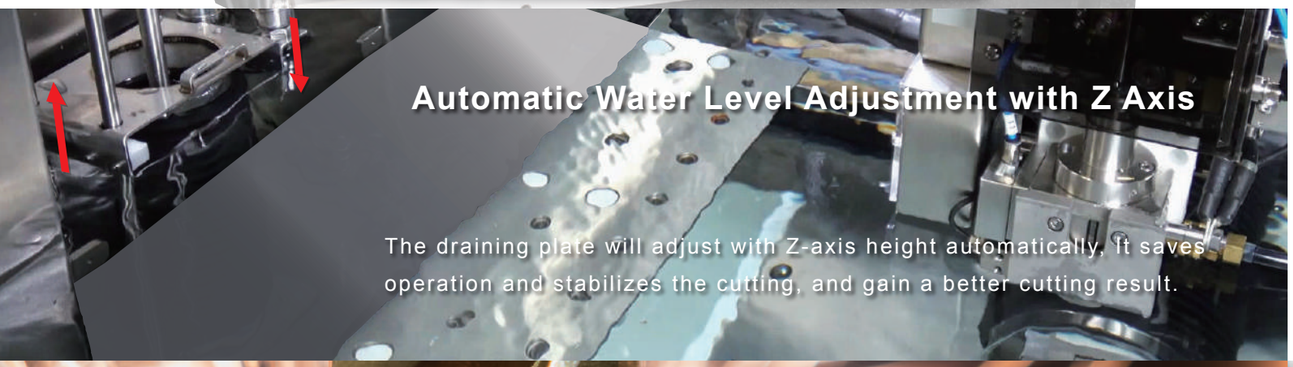
**Cutting conditions** — Cutting conditions are made by SKD-11 with 30mm thickness by 0.25mm brass wire with 3 cuts under good temperature and environment control.




## MST

Micro Sparking Technology (MST),this unique technology can reach the best Fine Finish to Ra 0.08μm on 40mm thickness Tungsten carbide material.



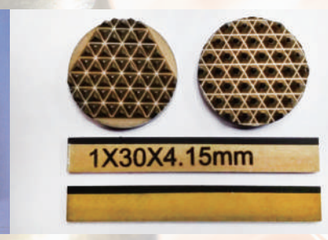

## PCD Cutting & Graphite machining Power Supply

The exclusive ignition circuit and stabilized discharging power supply are the most suitable design for PCD and graphite cutting; furthermore, with quality assurance for a long time machining.

The collapse of the workpiece edge by wire cut can be controlled within a minimum range along with high speed machining.

Accutex wire cut EDM can do 5 axes simultaneous interpolation, also the W axis(6th Axis rotary table) can be installed while doing complex PCD cutting tools.


PCD MODULE




PCD applications

PCD cutting tool





## Industry 4.0 Intelligent Manufacturing Integration System

AccuteX machine is capable with industry 4.0 who has M2M (machine to machine) protocol to collaborate with Robots and other machines. Flexible Real-time production can be made by Intelligent Manufacturing Integration System to meet full-automation demand.


OPC UA


Machine Status

Process

Alarm Managenment

Predictive Maintenance

Workpiece Clamping

Workpiece Warehouse

Drilling EDM

Wire Cut EDM

## Core Remove Module

Pick up the core

Move the core

Drop the core

show video

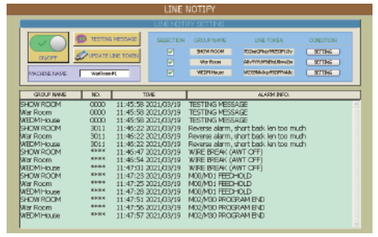
**During Wire Cut EDM machining, by using the new-generation flushing nozzle to remove the core automatically can reduce human operation and increase productivity.**

- Patented technology to remove core.Patent (No.1676513)
- Integrated with CIMFORCE intelligent manuacturing system and robot to increase productivity.
- Can integrate intelligent manufacturing system and robotic arm to further improve productivity

## New Line Messenger

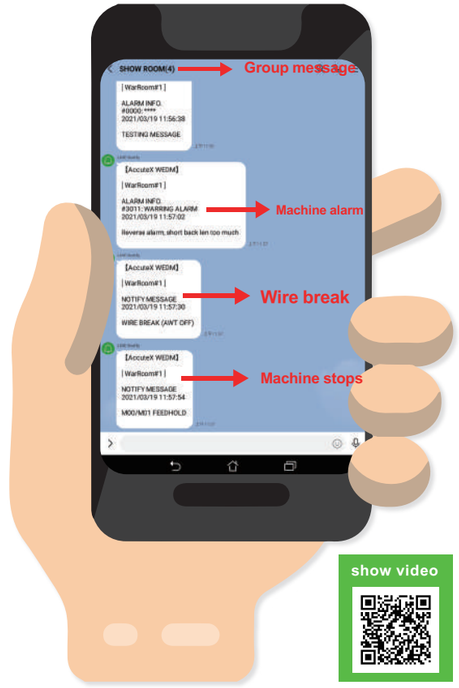
### Built-in LINE messaging system

The status of the machine is directly transmitted to the mobile device, achieving the first step of intelligent processing.



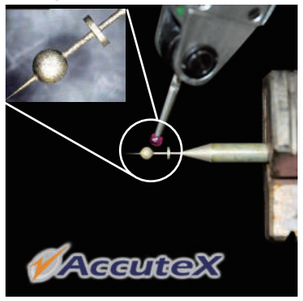

### Features

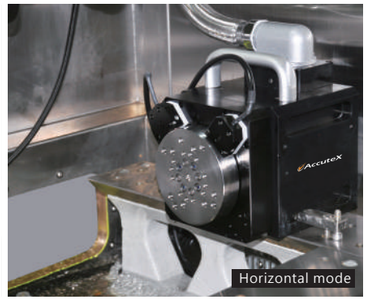
- Real-time communication with the machines via common.
- APPs〝Line〞, software expense free.
- Monitoring the cutting status remotely by your existing Line account.
- Push notification to a specific account or group.




show video

## Rotary Table Package




**In-house design and 100% capability in submerged cutting**

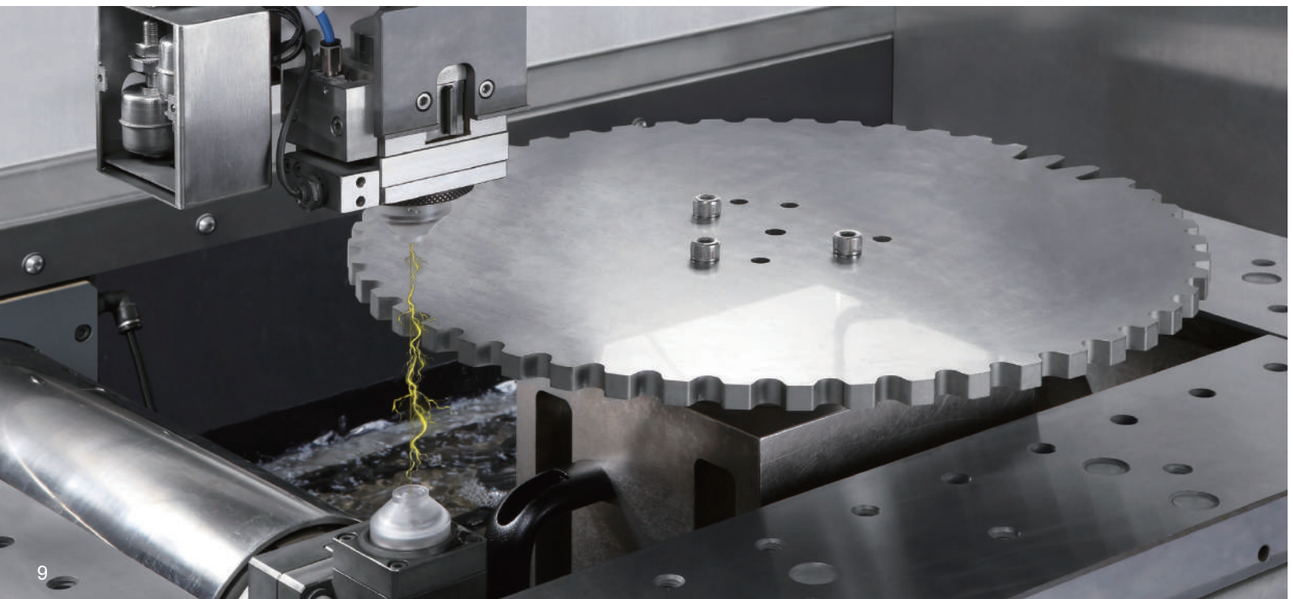
AccuteX Rotary Table Package is leading ahead of other WEDM manufacturers by years in R&D which can be applied to the submerged operation.

**High-efficiency machining**

High cutting efficiency is benifited by the maximum roation speed 1,000 RPM. Imporoving Fine Finish Ra to 0.2μm. The best soultion for "Turn and Burn" Application for high-hardness materials, such as tungsten carbide and PCD.

**Intelligent diagnostic capability**

Integrating water leakage, pressure, temperature, current and other sensing systems, the signals can be Feed back to the control system, and take protective measures for power failure and shutdown in advance.

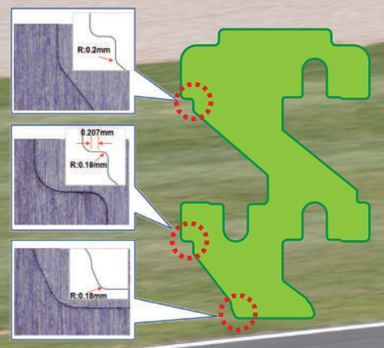




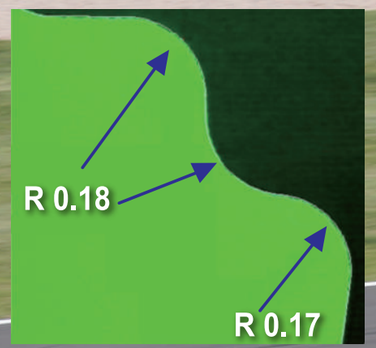


## Corner & Radius Control Function

According to different wire diameters, corner angles, arc radius and thicknesses, AccuteX controller optimizes parameters for the best cutting efficiency with high accuracy. Especially on the small path and continuous corners, machines can meet the corner accuracy demand.

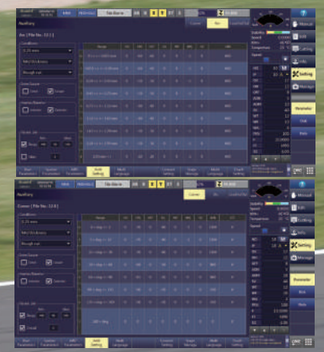



The stamping mold (Punch mold is 50mm and die mold is 30mm) has fine 3μm tolerance.

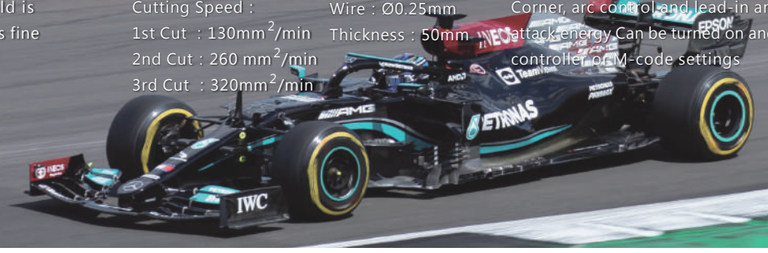



Cutting Speed :
1st Cut : 130mm$^2$/min
2nd Cut : 260 mm$^2$/min
3rd Cut : 320mm$^2$/min

Wire : Ø0.25mm
Thickness : 50mm

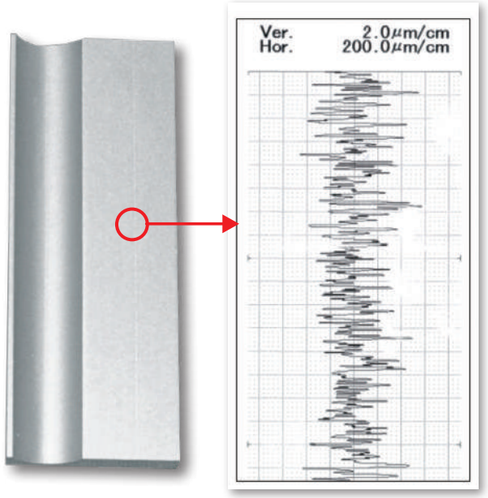


Corner, arc control and lead-in and lead-out attack energy Can be turned on and off via the controller or M-code settings




## Lead-in/Lead-out control methodology

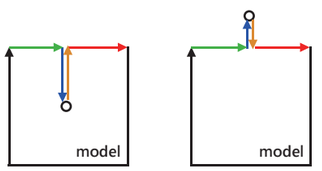
New generation of Lead-In / Lead-Out function is available for Tungsten Carbide. The wire mark is 2μm after 3 cuts by 40mm thickness which improving mold quality and saving second time polishing hours.




| | |
|---|---|
| ▪Material | SKD11 |
| ▪szie | 0.25mm |
| ▪Thickness | 50mm |
| ▪Cut | 3 |

The depth of the depression is within the range of the surface roughness.

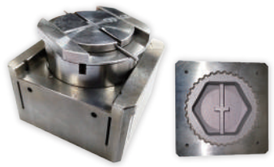
**Die mold** **Punch mold**




Lead-in entrance → Lead-in exit → Lead-out entrance → Lead-out exit

# Cutting Samples

## Plastic Injection Mold



- The plastic injection mold with 5μm accuracy

| | |
|---|---|
| \| Material | SKD60 |
| \| Thickness | 30mm |
| \| Wire size | 0.25mm |
| \| Cut | 3 |

## Continuous Corner & Radius

- Keeping equal tolerance in the continuous corners.
- Continuous radius is 0.18mm
- Short path is 0.207mm

| | |
|---|---|
| \| Material | SKD11 |
| \| Thickness | Punch:50mm / Die 30mm |
| \| Wire size | 0.25mm |
| \| Cut | 3 |

## Fine Finish Ra0.06μm

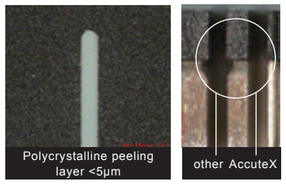
(Optional MST II Power Module )

- The best fine finish: Ra is 0.06μm; (Rz is 0.65~0.75μm).
- Average fine finish in 4 sides of the round die.

| | |
|---|---|
| \| Material | Tungsten Carbide |
| \| Thickness | 30mm |
| \| Wire size | 0.2 mm |
| \| Cut | 9 |

## PCD Application

(Optional PCD / Graphite Power)

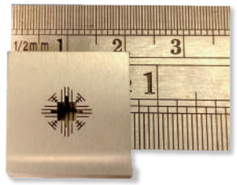



- Polycrystalline peeling layer is <5μm by optional PCD power with fewer grinding hours.
- Clear fit between PCD and carbide connection.

| | |
|---|---|
| \| Material | PCD |
| \| Thickness | 1mm |
| \| Wire size | 0.2mm |
| \| Cut | 1 |

## Super Fine Spinneret

(Optional Wire 0.07~0.1mm)



- Narrow width of the slit is 0.2mm
- Radius is 0.06mm

| | |
|---|---|
| \| Material | Tungsten Carbide |
| \| Thickness | 5mm |
| \| Wire size | 0.07mm |
| \| Cut | 5 |

## Helical Gear Cutting

(Optional Rotary Table)

- Vertical type for rotary table application
- Gear diameter is 380mm

| | |
|---|---|
| \| Material | Steel |
| \| Thickness | 25mm |
| \| Wire size | 0.25mm |
| \| Cut | 2 |

## Aerospace parts

- Aerospace parts with hollow and extreme thin feature.
- Suitable for aerospace components, turbines, etc.
- Cutting speed is better than other competitors.

| | |
|---|---|
| \| Material | Inconel |
| \| Thickness | 40mm |
| \| Wire size | 0.25mm |
| \| Cut | 1 |

## High-precision sleeve component

- High-precision sleeve components have a full-size accuracy of within 2 microns for all three surfaces.

| | |
|---|---|
| \| Material | Steel |
| \| Thickness | 75mm |
| \| Wire size | 0.25mm |
| \| Cut | 3 |

## Aluminum Extrusion Mold

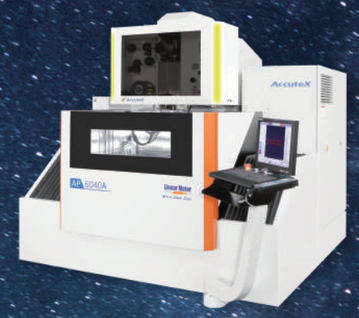
- With a special aluminum extrusion processing wizard, 5~40mm special database, quick to use without experience.
- Optimize discharging process and reduce the post-polishing process.

| | |
|---|---|
| \| Material | H13 |
| \| Thickness | 10mm |
| \| Wire size | 0.25mm |
| \| Cut | 2 |





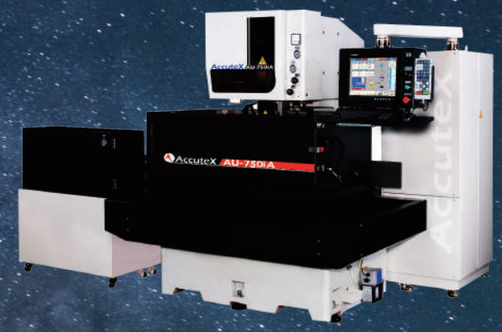
# Accutex Machine Photos



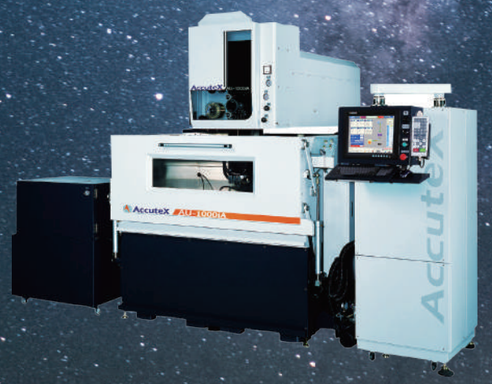
AP-4030 / 6040

NEW AZ-400 / 600

GA-43 / 53



AU-750 / 900



AU-860 / 1000 (Z400 / Z600)

AU-1400 (Z200 / Z800)

## AP | Series

| Machine Specifications | | | |
|---|---|---|---|
| **Specifications / Models** | **unit** | **AP-4030A** | **AP-6040A** |
| Max. Workpiece Size L x W x H | mm | 800 x 600 x 265 | 980 x 775 x 345 |
| Maximum height of cutting workpiece | mm | 270 | 350 |
| Max. Workpiece Weight | kg | 800 | 1000 |
| X / Y Stroke | mm | 400 x 300 | 600 x 400 |
| U / V Stroke | mm | 160 x 160 | 160 x 160 |
| Z Stroke | mm | 270 | 350 |
| Max. Cutting Taper | mm | ±32° / H100mm | ±32° / H100mm |
| Max. Wire Spool Weight | kg | 16 | 16 |
| Foot Print W x D x H | mm | 2145 x 2750 x 2250 | 2320 x 2850 x 2380 |
| Water System Capacity | L | 660 | 980 |
| Machine Weight | kg | 5000 | 5100 |

## AZ | Series

| Machine Specifications | | | |
|---|---|---|---|
| **Specifications / Models** | **unit** | **AZ-400A** | **AZ-600A** |
| Max. Workpiece Size L x W x H | mm | 800 x 600 x 265 | 980 x 775 x 295 |
| Maximum height of cutting workpiece | mm | 270 | 270 |
| Max. Workpiece Weight | kg | 400 | 550 |
| X / Y Stroke | mm | 400 x 300 | 600 x 400 |
| U / V Stroke | mm | 160 x 160 | 160 x 160 |
| Z Stroke | mm | 270 | 300 |
| Max. Cutting Taper | mm | ±32° / H100mm | ±32° / H100mm |
| Max. Wire Spool Weight | kg | 16 | 16 |
| Foot Print W x D x H | mm | 2250 x 2600 x 2280 | 2600 x 2700 x 2335 |
| Water System Capacity | L | 730 | 830 |
| Machine Weight | kg | 3500 | 4400 |

## GA | Series

| Machine Specifications | | | |
|---|---|---|---|
| **Specifications / Models** | **unit** | **GA-43** | **GA-53** |
| Max. Workpiece Size L x W x H | mm | 880 x 630 x 215 | 880 x 630 x 215 |
| Maximum height of cutting workpiece | mm | 175 | 175 |
| Max. Workpiece Weight | kg | 400 | 500 |
| X / Y Stroke | mm | 400 x 300 | 500 x 300 |
| U / V Stroke | mm | 60 | 60 |
| Z Stroke | mm | 220 | 220 |
| Max. Cutting Taper | mm | ±15° / H80mm | ±15° / H80mm |
| Max. Wire Spool Weight | kg | 10 | 10 |
| Foot Print W x D x H | mm | 2200 x 2570 x 1995 | 2200 x 2570 x 1995 |
| Water System Capacity | L | 730 | 730 |
| Machine Weight | kg | 2800 | 3000 |

## AU | Series

| Machine Specifications | | | |
|---|---|---|---|
| **Specifications / Models** | **unit** | **AU-750i** | **AU-900i** |
| Max. Workpiece Size L x W x H | mm | 1190 x 720 x 295 | 1335 x 760 x 295 |
| Maximum height of cutting workpiece | mm | 260 | 200 |
| Max. Workpiece Weight | kg | 800 | 800 |
| X / Y Stroke | mm | 750 x 500 | 900 x 500 |
| U / V Stroke | mm | 100 x 100 | 100 x 100 |
| Z Stroke | mm | 300 | 300 |
| Max. Cutting Taper | mm | ±21° / H100mm | ±21° / H100mm |
| Max. Wire Spool Weight | kg | 16 | 16 |
| Foot Print W x D x H | mm | 3260 x 3210 x 2300 | 3560 x 3050 x 2300 |
| Water System Capacity | L | 1240 | 1240 |
| Machine Weight | kg | 4300 | 5600 |

| Machine Specifications | | | | |
|---|---|---|---|---|
| **Specifications / Models** | **unit** | **AU-860i** | **AU-1000i** | **AU-1400i** |
| Max. Workpiece Size L x W x H | mm | 1330 x 990 x 395 (Opt. H595) | 1620 x 990 x 395 (Opt. H595) | 1740 x 1080 x 195 (1790 x 1080 x 795) |
| Maximum height of cutting workpiece | mm | 394 (605) | 394 (605) | 192 (800) |
| Max. Workpiece Weight | kg | 5000 | 5000 | 4000 (10000) |
| X / Y Stroke | mm | 800 x 600 | 1100 x 650 | 1400 x 800 |
| U / V Stroke | mm | 150 x 150 | 150 x 150 | 150 x150 |
| Z Stroke | mm | Z400 (Opt. Z600) | Z400 (Opt. Z600) | Z200 (Opt. Z800) |
| Max. Cutting Taper | mm | ±30° / H100mm | ±30° / H100mm | ±30° / H100mm |
| Max. Wire Spool Weight | kg | 16 | 16 | 16 |
| Foot Print W x D x H | mm | Z400 : 3950 x 3800 x 2740<br>Z600 : 4300 x 3550 x 2940 | Z400 : 4210 x 3800 x 2740<br>Z600 : 4620 x 3500 x 2900 | Z200 : 4330 x 3950 x 2500<br>Z800 : 5110 x 4400 x 3320 |
| Water System Capacity | L | Main Tank : 2420 (Z400)<br>Main+Sub Tank :<br>1630 + 1280 (Z600) | Main Tank : 2420 ( Z400)<br>Main+Sub Tank :<br>1630 + 1280 (Z600) | Main Tank : 2420 ( Z200)<br>Main+Sub Tank :<br>2000 + 1466 (Z800) |
| Machine Weight | kg | 7800 (8500) | 8100 (8700) | 7600 (10100) |





| Controller Specifications | | | |
|---|---|---|---|
| **Controller System** | Windows | **Max. Command Range** | ±9999.9999mm |
| **Control Device** | 64 - bit Industrial PC | **Command Type** | mm / inch |
| **Storage Device** | ≥ 30GB SSD | **Cutting data Memory** | 99999 Sets |
| **Screen Display Device** | 21.5" Color TFT Touch Screen | **Power type** | MOSFET Non-electrolysis power |
| **Data Input** | Keyboard, Mouse, USB, Ethernet , FTP | **Ignition Power Supply** | 32 Steps , 53V ~ 138V |
| **Servo control method** | Full closed loop (Linear scale) | **On time** | 24 Steps |
| **No. of Control Axes** | 5 Axes / 6 Axes(Opt.W Axis) | **Off time** | 43 Steps |
| **Simultaneous Axes** | 4 Axes / 5 Axes(Opt.W Axis) | **Discharge Mode** | Rough Cut / Skim Cut / S Power / MST Power available for AP/AZ series only |
| **Min. Command Unit** | 0.0001mm / 0.00001 inch | | |

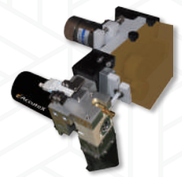
| Controller Functions | | | |
|---|---|---|---|
| Backlash compensation | Pitch compensation | Program management | Program edit<br>Program simulation |
| Anti- collision | Cutting path display | Linear/Circular interpolation | Auto corner |
| N code move | Sub program | Multi-blocks skip | Corner control function |
| MDI function | Taper setting | 4 axes cutting | M01 stop |
| Single block | Mirror | program rotation | Axis exchange |
| Short back | Constant feed / Servo feed | 2nd software limit | Axis Rotation |
| Auto aligment (edge, center) | Dry run | Single block stop | Reference point setting |
| Reference point return | Retrace to start point / Start point return | Auto Power recovery (Option) | Diagnosis |
| Cutting log | Maintenance dashboard | Auto compensation for wire comsumption | Lead-in / Lead-Out Control |

| Features Specifications | | AP | AZ | GA | AU |
|---|---|---|---|---|---|
| **AWT System** | Auto Wire Threading (AWT) | ◎ | ◎ | ● | ● |
| | High Pressure Water Jet Threading | ● | ● | ● | ● |
| | 0.1 mm Wire Application | ● | ● | ● | X |
| | 0.07 mm Wire Application (stroke less than 400mm) | ● | ● | X | X |
| | Wire Chopper | ● | ● | ● | ● |
| | 45 kg Wire Jumbo Feeder | ○ | ○ | ○ | ○ |
| **Working Tank** | Safety Door Interlock | ● | ● | ● | ● |
| | Automatic Water Level Adjustment with Z Axis | ● | ● | X | X |
| **Power Module** | S Power | ◎ | ◎ | ● | ● |
| | MST Power Module | ● | ● | X | X |
| | PCD / Graphite Power Module | ● | ● | ● | ● |
| **Linear Motor System** | XY Axes Linear Motor System | ◎ | ◎ | ● | X |
| | XY Axes 0.1μm Resolution Linear Scale | ◎ | ◎ | X | X |
| | Anti-Collision on X/Y/Z/U/V Axes | ◎ | ◎ | ● | X |
| **Remote Control** | Line Messenger | ○ | ○ | ○ | ○ |
| **Controller Specifications** | Built-in CAD/CAM | ○ | ○ | ○ | ○ |
| | OPC UA | ○ | ○ | ○ | ○ |
| | Touch Screen | ◎ | ◎ | ● | ◎ |
| | New Edge Finding Function | ◎ | ◎ | ● | ● |
| **Other Accessories** | Machine Status Indicator | ◎ | ◎ | ● | ● |
| | Rotary Table Package (W Axis) | ● | ● | ● | ● |
| | Auto Voltage Stabilizer | ● | ● | ● | ● |
| | Transformer for 440VAC | ● | ● | ● | ● |
| | Bridge Ruler | ○ | ○ | ○ | ○ |
| | Cyclone Filter | ○ | ○ | ○ | ○ |
| | Core Remove Module | ○ | ○ | ○ | ○ |



| Standard Accessories | |
|---|---|
| Upper / Lower Flushing Nozzle | Waste Wire Bin |
| Diamond Guide | Resin Tank |
| Conductor Plate | Resin |
| Diamond Guide Remove Jig | Paper Filter |
| Brass Wire | Vertical Alignment Jig |
| Tool Box | Water Chiller |

| | |
|---|---|
| ◎ | Standard equipment |
| ○ | Can be retrofitted |
| ● | Factory installation only |
| X | Not available |



< Wire Chopper >

< Cyclone Filter >

< 45Kg Wire Jumbo Feeder >