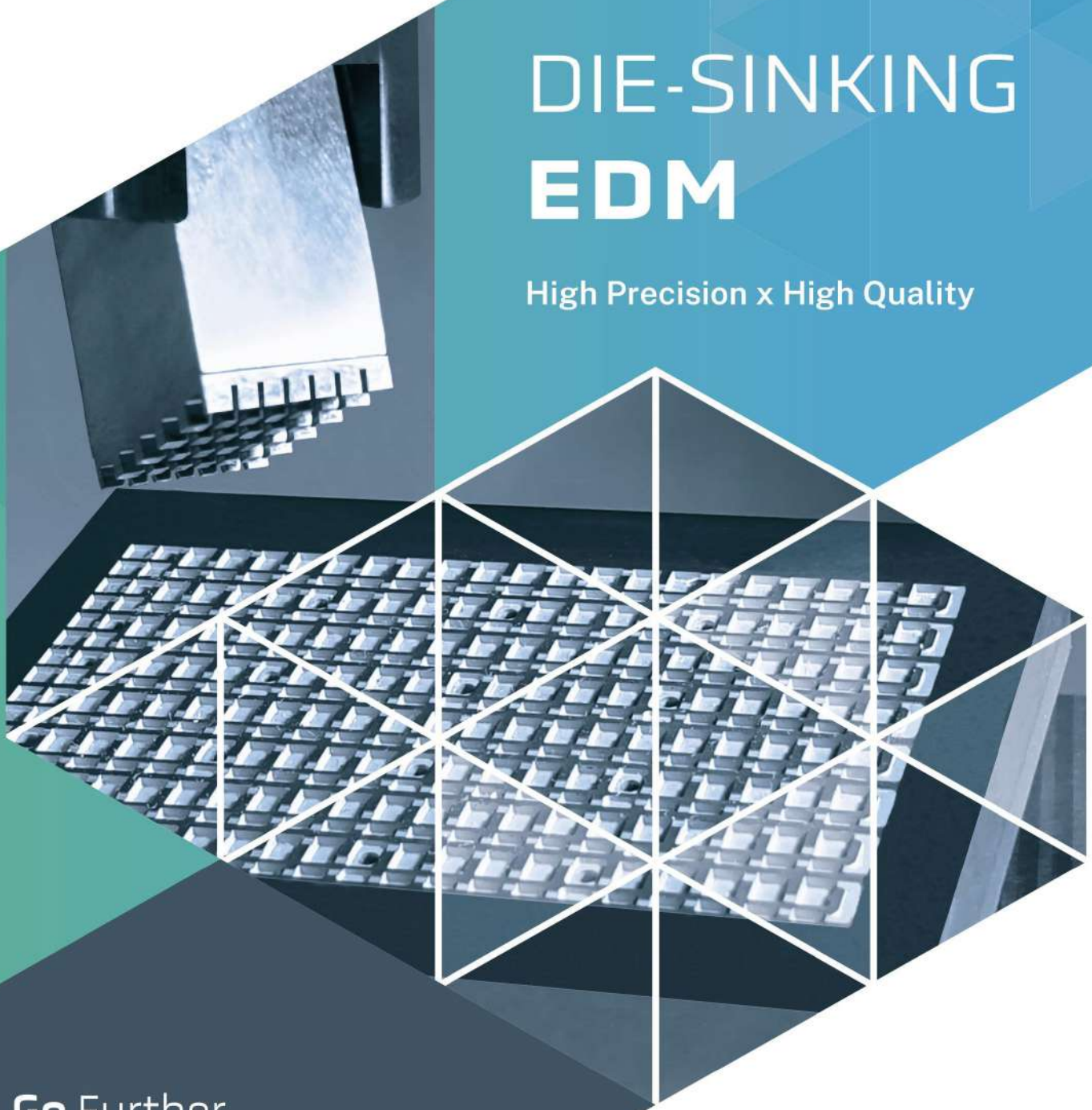
NEUAR-EDM

DIE-SINKING EDM

High Precision x High Quality



Go Further

Think Further

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Go Further
Think Further

Neuar was established in **1998**, and our Technical Department staff and Sales Team members have more than **40** years of work experience and technical knowledge. These advantages provides professional services in a timely manner, which meets the need of clients and gains good reputation and recognition.

Neuar is your reliable partner with the vision of providing the best EDM products.

We Neuar persist with the spirit of Sustainable Maintenance of Enterprise, uphold Technical Profession, Customer Satisfactions & Innovative Development as our commitments. We manufacture professional products related to EDM technology, and fully gain trust from global customers and partners. At the same time, Neuar relentlessly develops Innovative and Superb EDM technology reaching high precision, high efficiency, and high precision, and finally it is selected and trusted by the high-tech industries.

Insisting on providing high-quality products and always caring about customer satisfaction.

Our goal is to develop remarkable & cost effective EDM to share with our global dealers and numerous customers. We believe that insisting on providing high-quality products and always caring about customer satisfaction is the constant beliefs of Neuar for sustainable operation.

Aerospace Industry
Automotive Industry
Medical Industry
Precision Parts
Precision Tools
Forming Die
Micro Machining
Industrial Application

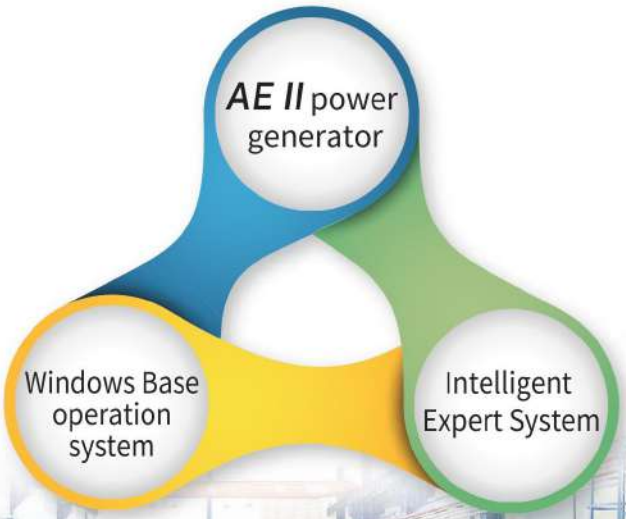
System Integration Capability

EtherCAT Serial servo motion control

The whole machine is equipped with the latest EtherCAT communication transmission protocol, which can realize high speed, high bandwidth command transmission. For multi-axis motion control, high precision and high response performance can be achieved. For various automation industries, EtherCAT can provide stable and reliable transmission communication.

New *AE II* power generator

The New AE II power generator can realize high efficiency and low wear machining quality. Because of our persistence in technology innovation, we successfully integrate 3 systems and 6 core technologies of EDM. This is the result of our long-term efforts in the field of electrical discharge machining. The entire series of CNC models are embedded with Windows operation system and high intelligent Expert System, which greatly simplifies the complexity of operations, and anyone can easily become an EDM expert.



Innovative R&D capabilities

We value customer experience, which is the reason for customer satisfaction and trust,and believe that only by continuous innovation, research & development ,we can provide more diverse and humane-centered machining equipment.

Quality and precision

Only by attaching great importance to high quality requirements and structural accuracy, a good machine will be more durable and used for a longer time.This is also the highest principle we have always been upholding.

Education and training

Our team is composed of senior experts in the field of electric discharge, with rich knowledge of machining technology, and can provide immediate technical guidance for the needs of different customers.

Reliable after-sales service

A sound after-sales service system ensures that customers can receive complete support in any kind of situation, without worrying about subsequent maintenance will be discontinued.

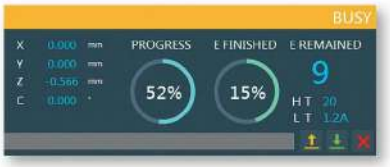
Neu-IoT On-line Management Software

Comprehensive deployment of Industry 4.0 automation
Improve overall production efficiency, Less manpower requirements!

Neu-IoT software can connect to multiple CNC EDM machine by using company-internal network. **Neu-IoT** also provides program transmission, live status monitoring, and data analysis functions. Highly improve the working efficiency of entire production line!

Real-time monitoring

Through a real-time dashboard, it can easily monitor machining progress, error state, and all unfinished jobs.

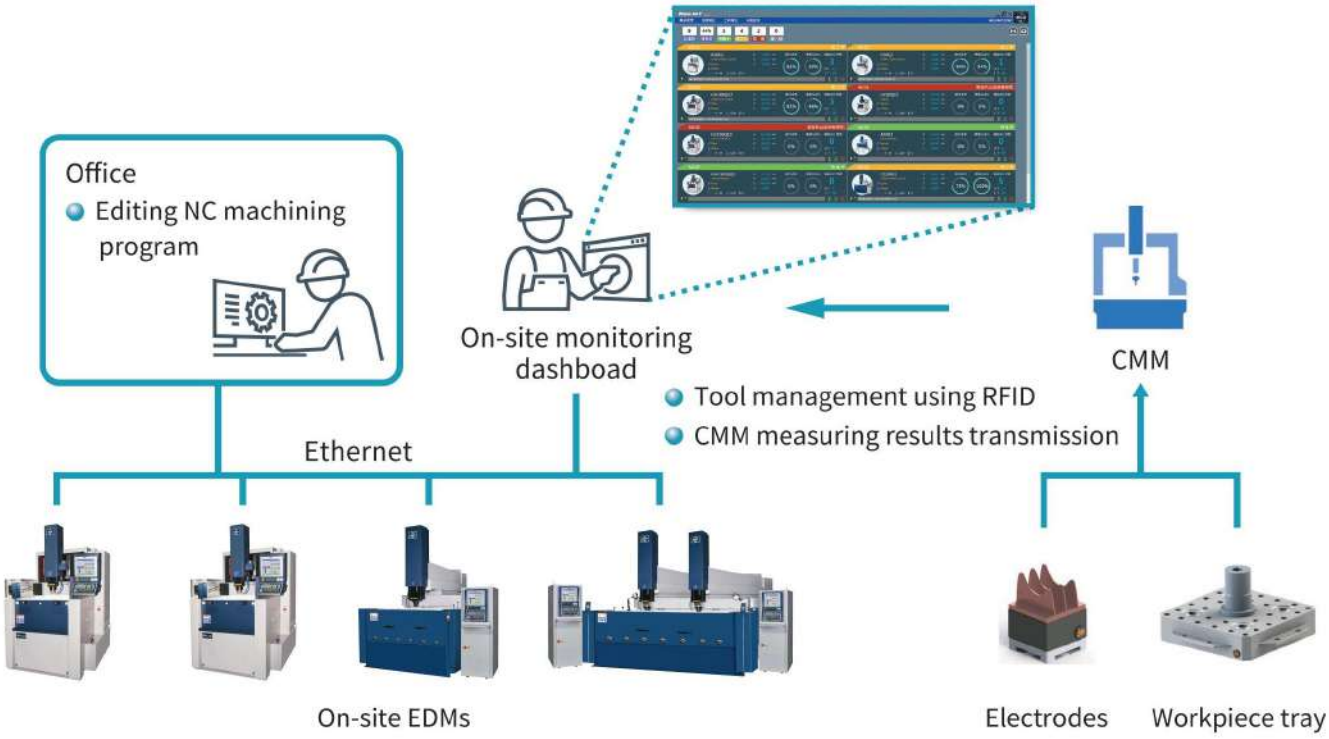


Remote File Transmission

Supports file upload and download function, you can easily manage all processing jobs in the office. Solves the inconvenient production issue of many machines.

Any place, Any time, Easily Control

Even if you are at home or traveling on holiday, you will still be able to keep abreast of the latest machine processing status.



H Series

Moving column design with high precision, high rigidity and heavy load capacity

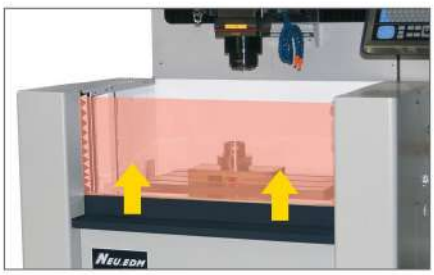
CNC-HC60QE2 ATC-4

CNC-HC60QE2 CE ATC-4

Model		HC60QE2
X / Y / Z Travel Distance	[mm]	400 x 300 x 350
Work table X / Y	[mm]	650 x 400

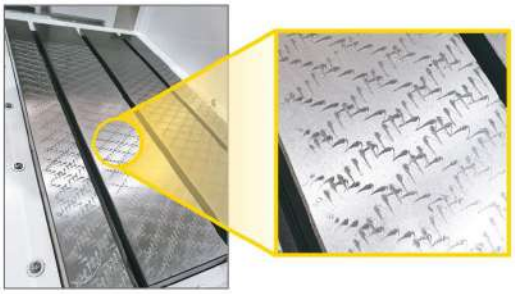
Automatic lifting front door

With the unique front door stepless design, liquid level can be set at will for easy operation. It can also be used with automation production line.



Hand scraping technique

The table flatness is also one of the key points of assuring high machining precision. Therefore, we scrape whole working table to achieve long-term high precision performance.



H Series

Three-in-one compact design with automatic front door and built-in C axis

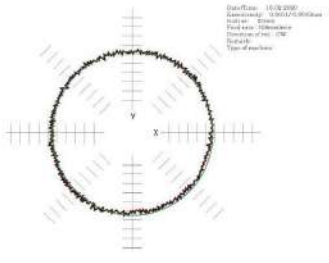
CNC-HC100QE2 CE

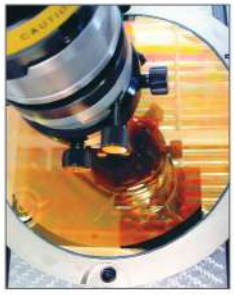
CNC-HHC100QE2 CE ATC-20

Model		HC100QE2	HHC100QE2
X / Y / Z Travel Distance	[mm]	500 x 400 x 350	500 x 400 x 450
Work table X / Y	[mm]	800 x 450	800 x 450

High rigid structure design

The H model is specially designed for high precision machining occasions. High rigidity body structure provides stability for long-term machining. From structure to assembly, all meet strict requirement standards!





High precision parts

In order to maintain the accuracy and stability of long-term use , and meet the highest level of machining requirements! All series of models equipped with HEIDENHAIN optical linear scale and THK linear guide.

C Series

Built-in high precision C axis
With comprehensive machining capabilities

CNC-C50E2 ATC-4

CNC-C90E2 ATC-6

Model		C50E2	C90E2
X / Y / Z Travel Distance	[mm]	400 x 300 x 300	500 x 400 x 350
Work table X / Y	[mm]	630 x 360	800 x 450

15" touch screen

Simple interactive graphical operation interface, with 15" touch screen,improving complex operation of traditional CNC machine and non-intuitive operation trouble.

Multi-axis simultaneously machining

Supporting up to 5-axis and 4-axis simultaneously machining .It is widely applied in die and mold , aerospace industry, automobile ...and other industries.

A Series

Compact three-in-one EDM
Space saving design

CNC-A30E2

CNC-A50E2

CNC-A90E2

Model		A30E2	A50E2	A90E2
X / Y / Z Travel Distance	[mm]	250 x 200 x 200	400 x 300 x 300	500 x 400 x 350
Work table X / Y	[mm]	470 x 280	630 x 360	800 x 450

A Series / RAM type

Long stroke model
Meet all kinds of machining jobs

CNC-A700E2 CE

CNC-C1200E2

Model		A700E2	C1200E2
X / Y / Z Travel Distance	[mm]	700 x 500 x 500	1200 x 700 x 500
Work table X / Y	[mm]	1000 x 600	1350 x 820

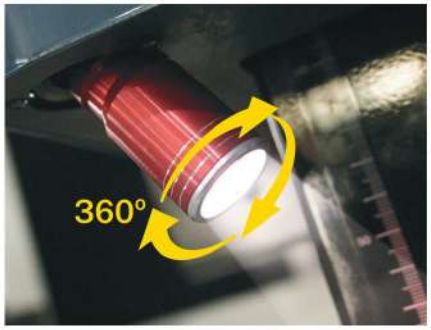
* If equipped with C axis, model name will be changed from "A" to "C"

Movable panel

90-degree fold screen design provides on-site operators with convenience !

High illuminance spotlight

360 degrees rotatation and vari-focus design, allowing operators to inspect the surface of workpiece more clearly!



A

Series / RAM type

Double spindle design
Large parts machining efficiency greatly improved.

CNC-A2200-2E2 / CNC-A3200-2E2

Model		A2200-2E2	A3200-2E2
X / Y / Z Travel Distance	[mm]	2200 x 1000 x 600	3200 x 1000 x 600
Work table X / Y	[mm]	2250 x 1100	3100 x 1100

* If equipped with C axis, model name will be changed from "A" to "C"

New circulating filtration system

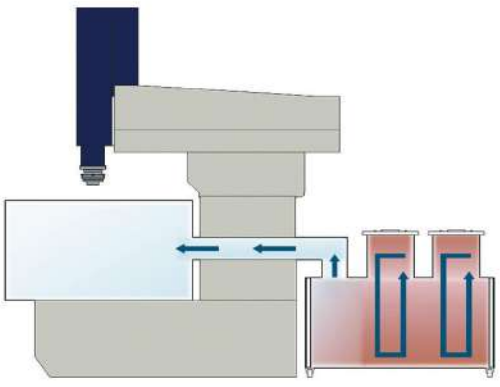
A large amount of carbon residue caused by rough machining is often difficult to filter out, easily causing oil intake blockage.

The new filtration system not only increases the efficiency of carbon residue filtration, but also extends filter lifespan, greatly saving consumables expenses.

*1: for A600 to A3200 model

Filtration efficiency improved

Filter lifespan extended



▲ Stand-alone circulation

Z Series

High machining efficiency
Break through the limits of conventional ZNC performance

Model		Z30SE	Z50SE	Z90SE
X / Y / Z Travel Distance	[mm]	250 x 200 x 200	350 x 250 x 200	500 x 400 x 350
Work table X / Y	[mm]	470 x 280	630 x 360	800 x 450

Features

- Z axis fast jumping speed:14 M/min
- Built-in Sharp corner R radius, large area, tungsten carbide*1 circuit
- ±5 um machining accuracy
- Best surface finish < Ra 0.18 um
- Sharp corner R radius < 0.02 mm
- HEIDENHAIN 1um optical linear scale

*1 : Optional :Tungsten carbide circuit

- Built-in database of more than 300 machining data
- Built-in high-illuminance spotlight, more convenient for inspection of workpiece
- Dynamic LED LOGO displays instant machining status
- Built-in copper, graphite, tungsten carbide , connector, rib and other materials discharge conditions.
- Discharge stability detection, users can adjust parameters during machining.

ZNC Features

Fast jumping speed 14M/min

Inheriting CNC computing technology, the Z axis jumping speed is also greatly improved comparing to the previous generation model.

With three-in-one compact structure design, it greatly saves the required floor space and is easier to operate.

The whole machine is equipped with 1 um resolution optical linear scale, providing 14 sets of single block and 60 sets of coordinate systems to meet any machining jobs.

Machining efficiency increased

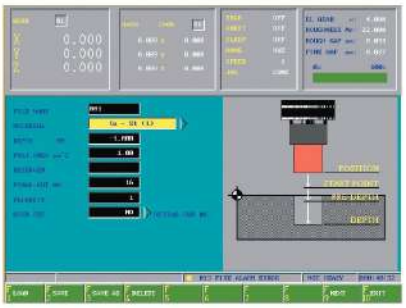
Jumping speed increased

Simple operation process

The main concept of new ZNC-SE system is to provide a simple and fast operating environment, and all operations can be completed within one single screen. Intelligent Expert System, from rough to fine surfaces , machining program can be generated at a time. Built-in database of copper, graphite, tungsten steel*1, copper tungsten*1, etc., users no longer need to worry about complicated discharge condition settings.

*1 : Optional :Tungsten carbide circuit

▲ Clearly display the VDI and Gap of each E code



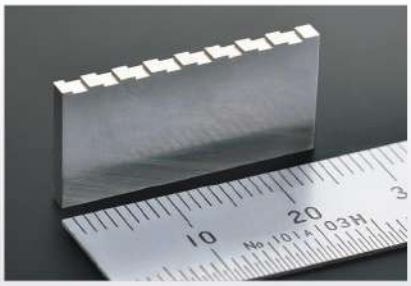
▲ Expert system - machining database

Excellent machining ability

Even for entry-level models, machining performance is still the core value we care about. The new ZNC-SE system optimizes the discharge circuit and greatly reduces cycle time. With stable discharge gap control, the machining size is more precise.

Electrode	Copper
Workpiece	Tungsten Steel
Electrode Size	16.5 mm
Machining Depth	16 mm (Pre-machined)
Machining Time	2 h 10 m
Roughness	VDI 18 / Ra 0.45 um

Electrode	Copper
Workpiece	NAK80
Electrode Size	Ø 30 mm
Machining Depth	2 mm
Machining Time	7 h 03 m
Roughness	VDI 4 / Ra 0.16 um



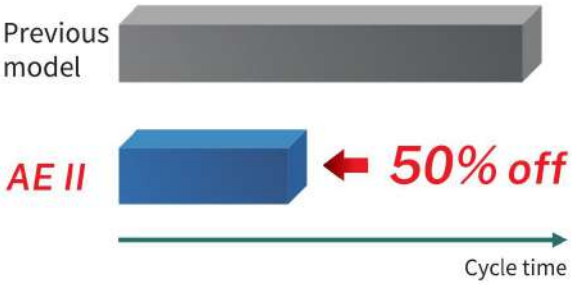
Electrode	Copper
Workpiece	VIKING
Undersize	0.03 mm
Amount	5
Machining Time	0.3 mm
Roughness	VDI 6 / Ra 0.2 um

Core Technology of EDM

Core tech 1 : Z axis high jumping speed 18 M/min

The new *AE II* power generator system adopts high-speed motion control algorithm so that the Z axis jumping speed can reach up to **18 M/min**, which provides a stable discharge gap and shortens the cycle time.

Electrode	Graphite POCO EDM 2
Workpiece	SKD 11
Electrode Size	1 x 38 mm
Machining Depth	70 mm
Roughness	VDI 25 / Ra 1.8 um

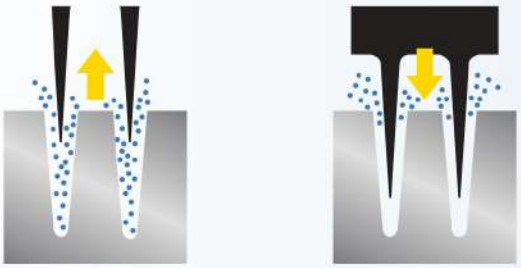


- Ultra high-speed jumping
- One roughing and one finishing electrode
- No oil flushing required

O

Fast Jumping

Utilizing instant acceleration to generate negative pressure in the cavity So that carbon residue is squeezed out of the hole.

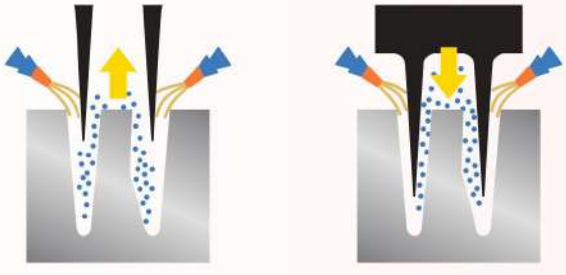


▲ Utilizing fast debris removal to discharge carbon residue

X

Cavity Oil flushing

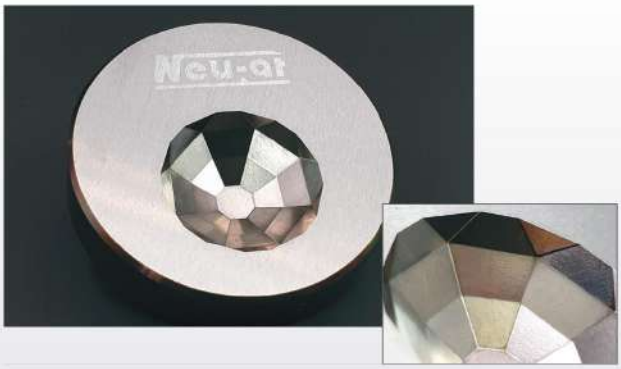
Using external oil flushing will cause uneven flow of carbon residue in the cavity which will deform in the secondary electric discharge generated by unstable gap.



▲ Conventional slow Z axis jumping needs oil flushing assist

Core tech 2 : Mirror surface Ra 0.08 um

The ultra-fine surface Ra 0.08 um can be easily achieved even in a large area without using powder technology, saving time for further polishing process.



Electrode	Copper
Workpiece	NAK 80
Electrode Size	Ø 26 mm
Machining Depth	8 mm
Machining Time	4 h 14 m
Roughness	VDI 0 / Ra 0.08 um

- Irregular surface
- Excellent low wear control
- Sharp corner and edge are clearly visible

Electrode	Copper
Workpiece	NAK 80
Electrode Size	Ø 35 mm
Machining Depth	3 mm
Machining Time	5 h 30 m
Roughness	VDI 0 / Ra 0.08 um

- Mixed shape of square and cylinder
- Stable discharge gap control
- Hard-to-machine side curved surfaces can also reach mirror level

Electrode	Copper
Workpiece	NAK 80
Electrode Size	Ø 2 mm
Machining Depth	0.8 mm
Machining Time	28 min
Roughness	VDI 0 / Ra 0.06 um

- Mirror surface finish Ra 0.06 um
- Precision bearing cavity
- Micro discharge technology

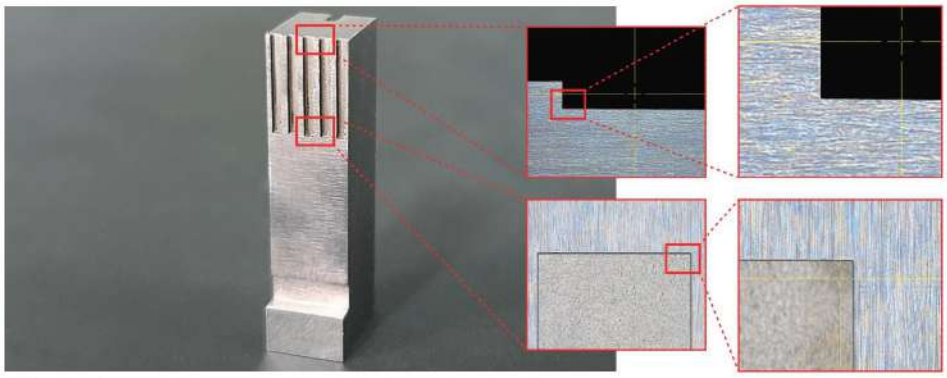
Electrode	Copper
Workpiece	NAK 80
Electrode Size	35 x 35 mm
Machining Depth	1.97 mm
Machining Time	5 h 15 m
Roughness	VDI 0 / Ra 0.08 um

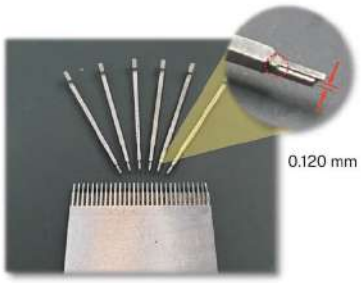
- Large area mirror machining
- Pure dielectric oil, no powder mixed

Core Technology of EDM

Core tech 3 : Sharp corner R radius 8um

As electronic products move toward high-precision and miniaturization, the requirement standards for machining are getting higher and higher. For finer lines and shapes, through the latest wear control technology, the best R angle 8 um can be achieved.



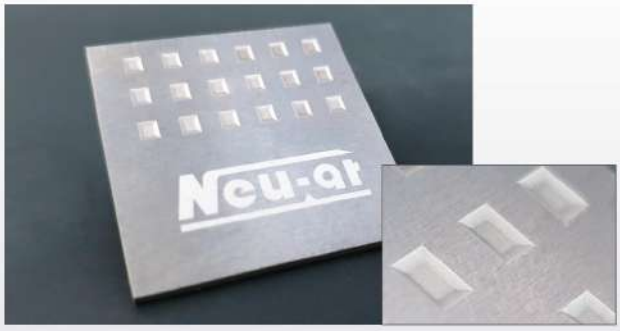


Electrode	Copper
Workpiece	VIKING
Undersize	0.05 mm
Amount	4
Machining Depth	0.3 mm
Roughness	VDI 7 / Ra 0.22 um

- High precision connector device
- Micro discharge gap
- Minimum undersize 0.005 mm

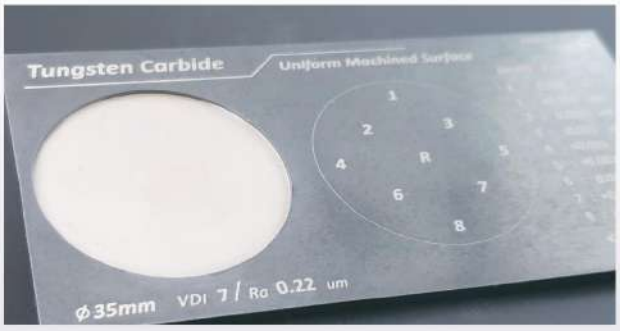
Core tech 4 : Super harden material machining

The high tool wear caused by super hard materials is a major problem in EDM process. Through a new exclusive super hard alloy circuit and low wear control technology, the sharp corner R radius can be clearly displayed.



Electrode	Copper Tungsten
Workpiece	Tungsten Steel (HRA 90°)
Electrode Size	83 mm²
Machining Depth	0.15 mm
Machining Time	2 h 10 m
Roughness	VDI 7 / Ra 0.22 um

- Surface roughness VDI 7
- Size error within 3 um



Electrode	Copper Tungsten
Workpiece	Tungsten Steel (HRA 90°)
Electrode Size	Ø 35 mm
Machining Depth	0.25 mm
Machining Time	3 h 45 m
Roughness	VDI 13 / Ra 0.45 um

Core tech 5 : Fine finishing machining

Newly developed discharge power circuit significantly improve fine finishing machining performance, compared with the previous model, cycle time reduced by nearly 45%.

Electrode	Copper
Workpiece	NAK 80
Electrode Size	38 x 28 mm
Machining Depth	12 mm
Machining Time	6 h 9 m
Roughness	VDI 9 / Ra 0.28 um

- Medium area fine finishing machining
- Even surface without pinhole

Core tech 6 : Large area machining technology

The larger machining area and the finer surface, the more uneven particles will appear. The new AEII technology, through monitoring discharge gap status , can result an even machining surface, improving the efficiency, and greatly reduce the subsequent mold polishing time.

Electrode	Copper
Workpiece	SKD 61
Electrode Size	100 x 100 mm
Machining Depth	5 mm
Machining Time	7 h 7 m
Roughness	VDI 15 / Ra 0.56 um

Electrode	Graphite POCO EDM 200
Workpiece	SKD 61
Electrode Size	100 x 100 mm
Machining Depth	5 mm
Machining Time	6 h 21 m
Roughness	VDI 18 / Ra 0.8 um

	Actual depth	Surface roughness
1	-4.999 mm	Ra 0.565 um
2	-4.996 mm	Ra 0.521 um
3	-4.999 mm	Ra 0.561 um
4	-4.997 mm	Ra 0.529 um
5	-4.995 mm	Ra 0.531 um
6	-4.997 mm	Ra 0.523 um
7	-4.996 mm	Ra 0.563 um
8	-4.995 mm	Ra 0.558 um
9	-4.997 mm	Ra 0.523 um

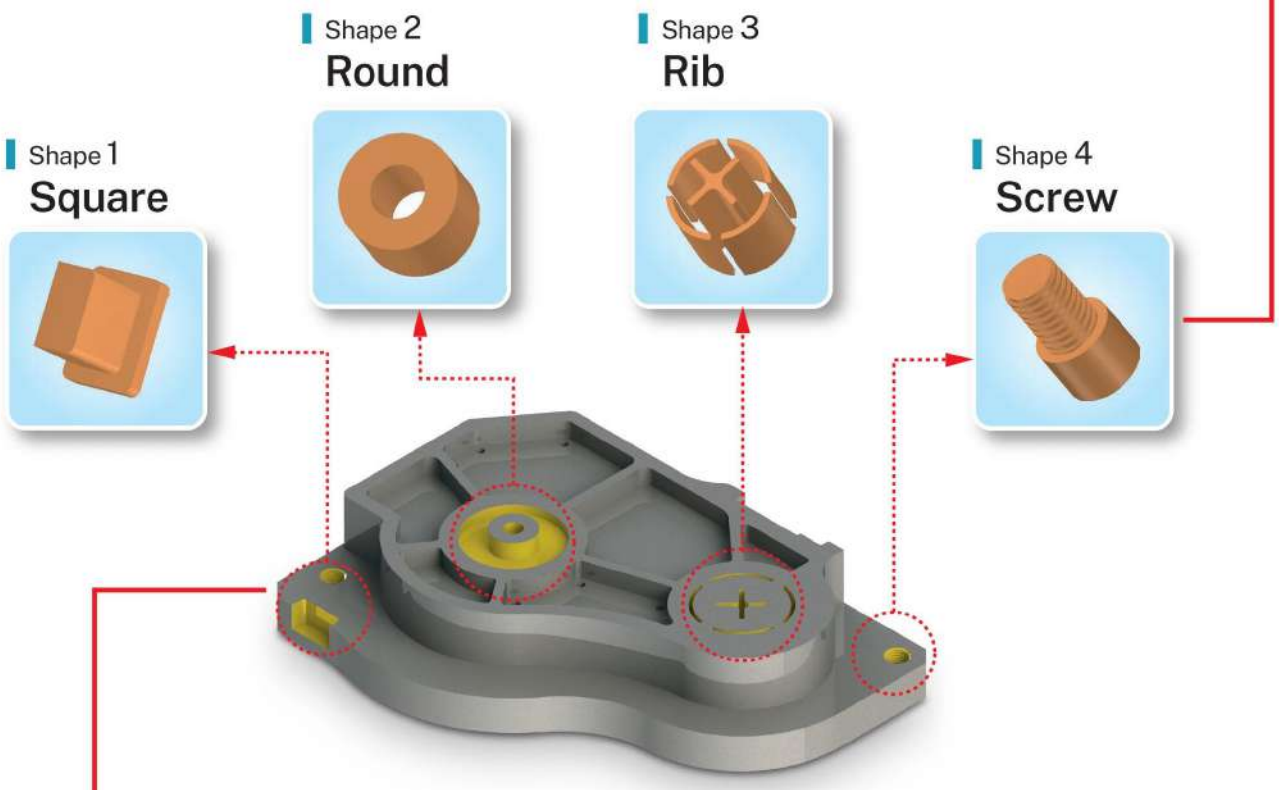
- Depth error within ±3 um
- Even surface roughness

▲ Even depth and roughness

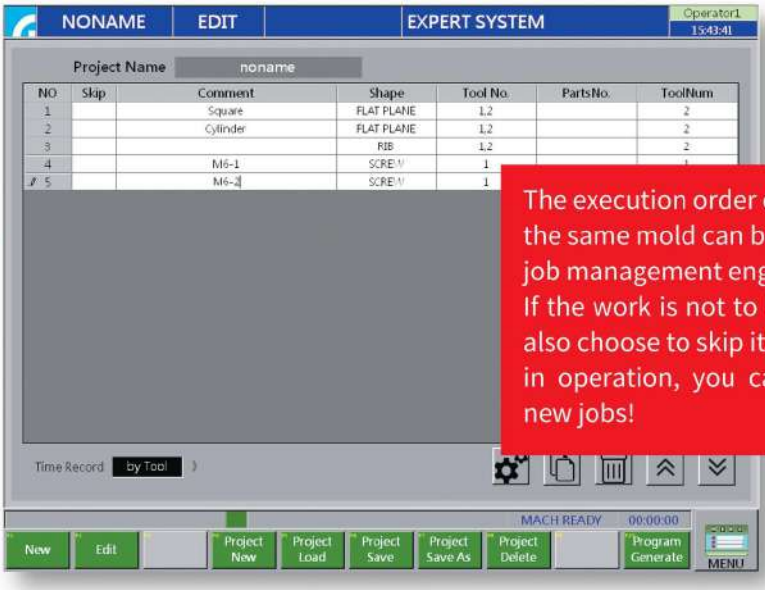
Expert System

5 simple steps to make you become an EDM expert !

Extensive experience is not required, even beginners can easily edit machining program through *AE II* expert system.

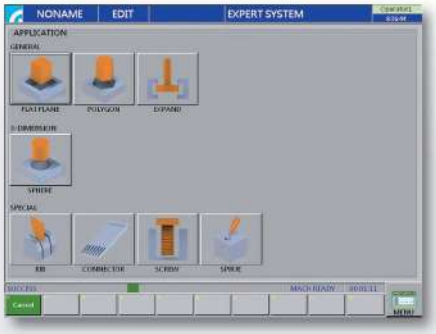


▲ Single mold, multiple machining jobs



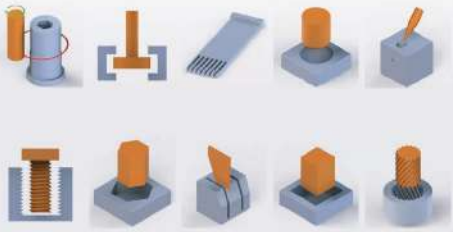
The execution order of all machining jobs in the same mold can be adjusted through the job management engine.
If the work is not to be processed, you can also choose to skip it. Even if the machine is in operation, you can continue to create new jobs!

▲ Job management engine can flexibly manage all machining jobs

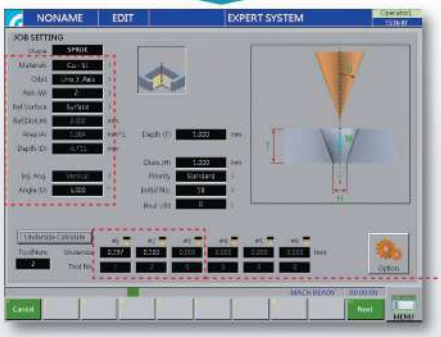


Step 1: Select electrode shape

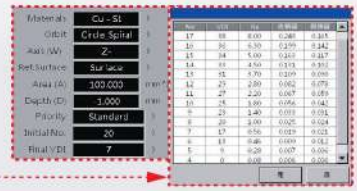
Database with variety of electrode application modes : RIB, CONNECTOR, SCREW ,SPRUE, 3D SPHERE and so on, it is enough for a variety of complex machining tasks.



▲ Abundant machining application



Step 2: Input machining data

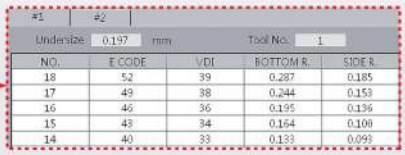


▲ Machining process from rough to fine clearly displayed

Simple understanding setting interface. Just enter machining data, the internal calculation engine can calculate the most appropriate electrode undersize and required electrodes.

▲ Automatically select the best undersize and number of electrodes

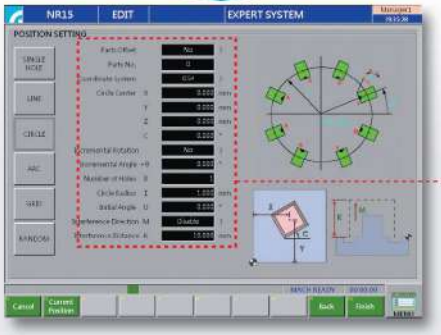
Step 3: Preview of all machining process



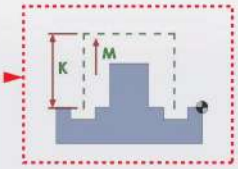
▲ Each machining process can be adjusted at will

All electrode machining process are clearly presented.

User also can flexibly adjust the process, allowing you to experience highly flexible machining capabilities of AEII expert system!



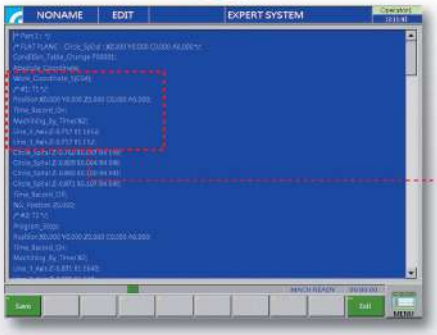
Step 4: Machining position setting



▲ Interference avoidance function

▲ Parts offset

Built-in 60 sets of machining coordinate system, 50 sets of workpiece coordinates, it can cope with multi-hole, multi-workpiece machining jobs. With the coordinate system of workpiece offset , users no longer have to worry about calibration of large workpieces, saving calibration time on site.



Step 5: Generating NC program completed!

▲ Interchangeable : GM code < = > Local language Code !

With exclusive multi-language machining code for instead, improving the shortcomings of conventional GM codes that are not easy to understand visually.

After the program generated by system is saved, you can start machining with one click, which is easy and effortless!

Optional Accessories

High precision C axis

- Built-in high-precision positioning C axis
- Hirschman, System 3R, EROWA chuck are available

Model	C-AXIS	CR-AXIS
Index accuracy	±0.4 arc sec	±2.5 arc sec
Rotation speed	1 ~ 20 rpm	1 ~ 200 rpm
Maximum load	11 Kg	11 Kg

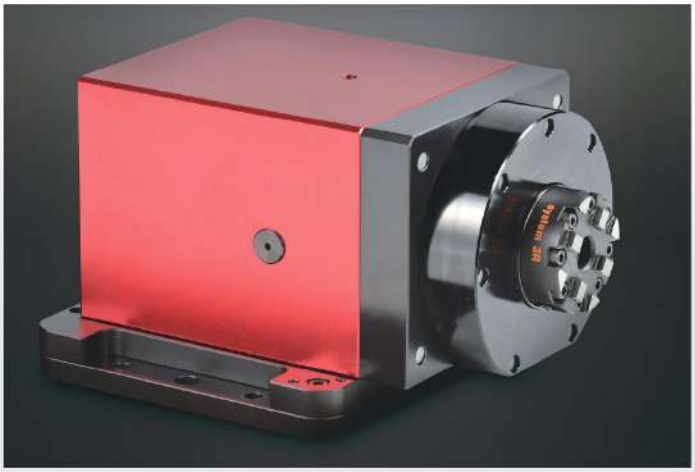
High precision rotary index table

ROTATE®

- IP68 waterproof rate, Immersible design
- Long-term operation with zero backlash to ensure machining accuracy
- SYSTEM 3R, EROWA, three-jaw chuck are available
- Horizontal and vertical machining

Model	R230
Table size	Ø230 mm
Index accuracy	±2.5 arc sec
Rotation speed	1 ~ 200 rpm
Maximum load	30 Kg
IP rating	IP 68

Horizontal C axis



- High-precision positioning C axis
- For horizontal machining use
- IP68 waterproof rate

Model	CS100
Index accuracy	±0.4 arc sec
Rotation speed	1 ~ 20 rpm
Maximum load	20 Kg
IP rating	IP 68

Portable rotational axis

- Design for fine and deep hole discharge, while meeting accuracy requirements.
- Center of spindle can be flushed with oil, with the application of copper tube for deep hole machining is more efficient
- High loading, it fit electrode with diameter up to Ø100mm

Model	R200
Spindle runout	< 0.010 mm
Rotation speed	10 ~ 250 rpm
Copper tube diameter	Ø0.50 ~ 20 mm
Maximum load	6 Kg

Accessories

1 SYSTEM 3R collect chuck
2 Adjustable centering chuck
3 EROWA collect chuck

- SYSTEM 3R, EROWA adjustable chuck, manually adjust offset
- Electronic hand wheel, handy, lightweight and convenient, IP67 protection level

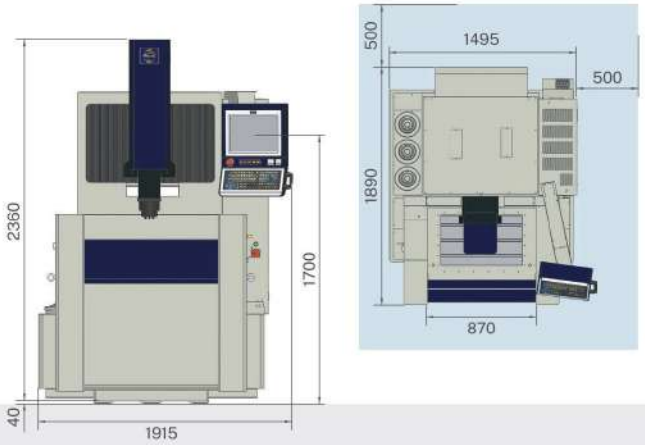
RFID technology

Tool magazine (ATC) with RFID tag. Reducing manpower requirement for the machine, 24-hours uninterrupted machining, improving production efficiency , and reaching Industry 4.0 production standards.

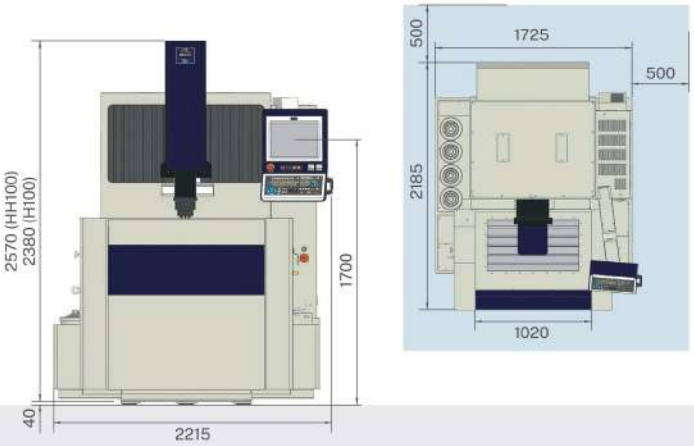
Machine Layout

Unit : mm

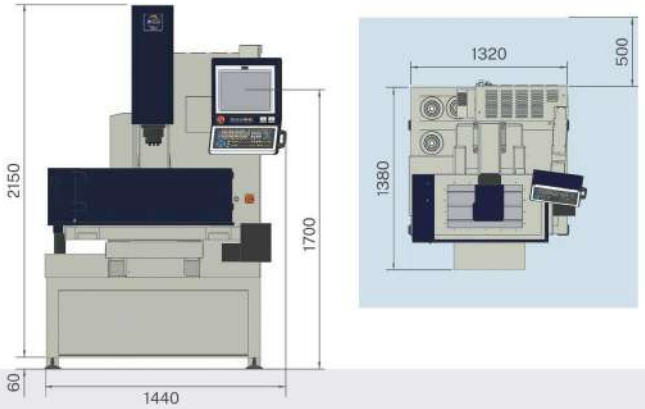
HC60QE2



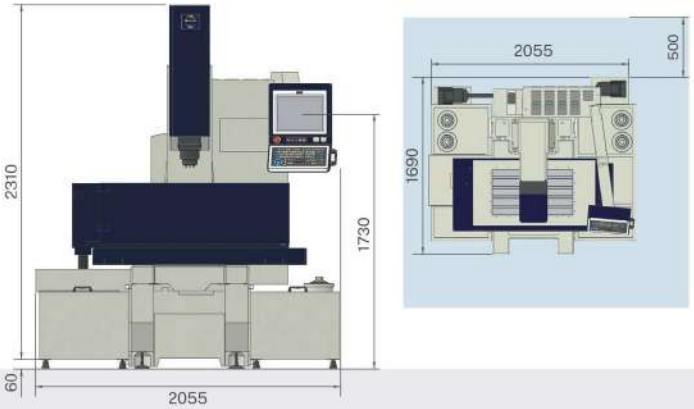
HC100QE2 / HHC100QE2



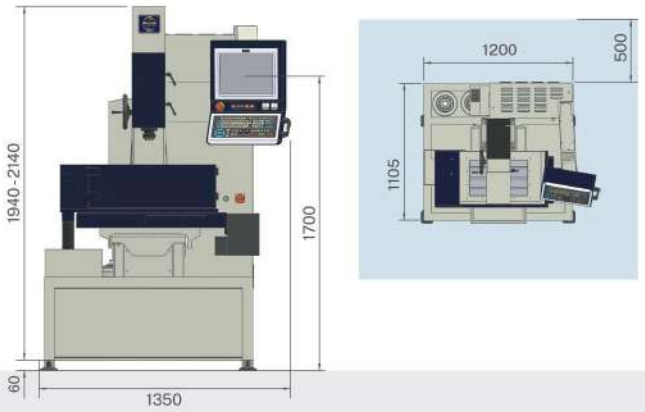
A50E2 / C50E2



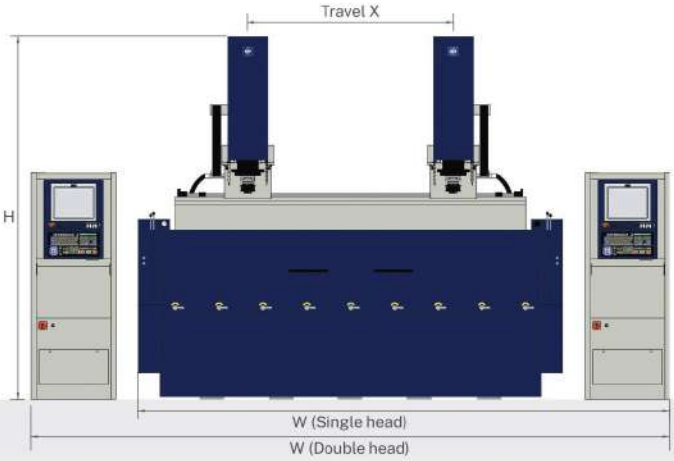
A90E2 / C90E2



A30E2



A700E2 ~ A3200-2E2



Machine Specification

Item	Unit	HC60QE2	HC100QE2	HHC100QE2	A30E2	A50E2	A90E2
Travel distance (X / Y / Z)	mm	400 x 300 x 350	500 x 400 x 350	500 x 400 x 450	250 x 200 x 200	400 x 300 x 300	500 x 400 x 350
Work table (X / Y)	mm	650 x 400	800 x 450	800 x 450	470 x 280	630 x 360	800 x 450
Work tank (WxDxH)	mm	960 x 560 x 350	1165 x 705 x 435	1165 x 705 x 435	885 x 435 x 270	940 x 550 x 350	1240 x 700 x 435
Z axis auxiliary distance	mm	---	---	---	+170	---	+170
Chuck to table	mm	120 ~ 420	150 ~ 500	170 ~ 620	95 ~ 470	155 ~ 455	60 ~ 585 (T16)
(3R/EROWA)	mm	120 ~ 420	150 ~ 500	170 ~ 620	75 ~ 450	135 ~ 435	
Max electrode weight	Kg	11 / 200	11 / 250	11 / 250	30	50	200
Max workpiece weight	Kg	1,500	1,800	1,800	300	500	1,350
Max output current	A	50	60	60	30	50	60
Best roughness/Wear ratio	Ra / %	0.08 / 0.02	0.08 / 0.02	0.08 / 0.02	0.08 / 0.02	0.08 / 0.02	0.08 / 0.02
Power consumption	KVA	10	10	10	5	10	10
Capacity of oil tank	L	400	500	500	200	300	600
Total dimensions (WxDxH)	mm	1495 x 1890 x 2360	1725 x 2185 x 2380	1725 x 2185 x 2570	1200 x 1105 x 2140	1320 x 1380 x 2150	2055 x 1690 x 2310
Total weight	Kg	2,850	3,260	3,460	1,135	1,370	2,615

Item	Unit	C50E2	C90E2	ZNC-30SE	ZNC-50SE	ZNC-90SE
Travel distance (X / Y / Z)	mm	400 x 300 x 300	500 x 400 x 350	250 x 200 x 200	350 x 250 x 200	500 x 400 x 350
Work table (X / Y)	mm	630 x 360	800 x 450	470 x 280	630 x 360	800 x 450
Work tank (WxDxH)	mm	940 x 550 x 350	1240 x 700 x 435	885 x 435 x 270	940 x 530 x 350	1240 x 700 x 435
Z axis auxiliary distance	mm	---	+170	+170	+200	+170
Chuck to table	mm	100 ~ 400	60 ~ 585	25 ~ 400 (T16)	75 ~ 470 (T16)	60 ~ 585 (T16)
(3R/EROWA)	mm	100 ~ 400	60 ~ 585			
Max electrode weight	Kg	11/50	11/200	30	50	200
Max workpiece weight	Kg	500	1,350	300	500	1350
Max output current	A	50	60	30	50	60
Best roughness/Wear ratio	Ra / %	0.08 / 0.02	0.08 / 0.02	0.18 / 0.02	0.18 / 0.02	0.18 / 0.02
Power consumption	KVA	10	10	2.4	3.3	4.1
Capacity of oil tank	L	300	600	200	300	600
Total dimensions (WxDxH)	mm	1320 x 1380 x 2150	2055 x 1690 x 2310	1300 x 1250 x 2120	1400 x 1380 x 2200	2050 x 1800 x 2440
Total weight	Kg	1,450	2,630	1,110	1,375	2,615

Item	Unit	A700E2	A1000E2	A1200E2	A1500E2	A1800E2	A2200E2
Travel distance (X / Y / Z)	mm	700 x 500 x 500	1000 x 600 x 500	1200 x 700 x 500	1500 x 1000 x 600	1800 x 800 x 600	2200 x 1000 x 600
Work table (X / Y)	mm	1000 x 600	1250 x 750	1350 x 820	1580 x 1100	1850 x 1000	2250 x 1100
Work tank (WxDxH)	mm	1600 x 940 x 520	1880 x 1100 x 615	2120 x 1250 x 615	2290 x 1700 x 800	2600 x 1350 x 700	2860 x 1600 x 740
Chuck to table	mm	400 ~ 920	420 ~ 920	500~1010	580 ~ 1300	450 ~ 1050	650~1260
Max electrode weight	Kg	250	350	400	500	500	500
Max workpiece weight	Kg	3,000	4,000	5,000	11,000	7,000	9,500
Max output current	A	120	120	120	120	120	120
Best roughness/Wear ratio	Ra / %	0.12 / 0.02	0.12 / 0.02	0.12 / 0.02	0.12 / 0.02	0.12 / 0.02	0.12 / 0.02
Power consumption	KVA	20	20	20	20	20	20
Capacity of oil tank	L	1,100	1,615	1,880	3,415	2,720	4,040
Total dimensions (WxDxH)	mm	2900 x 2850 x 2670	3300 x 3350 x 3150	3500 x 3630 x 3200	3420 x 3720 x 3290	3750 x 4140 x 3290	5040 x 4680 x 3630
Total weight	Kg	4,850	5,900	6,900	14,700	9,380	13,500

Item	Unit	A3200E2	A1500-2E2	A2200-2E2	A2600-2E2	A3200-2E2
Travel distance (X / Y / Z)	mm	3000 x 1000 x 600	1500 x 1000 x 600	2200 x 1000 x 600	2600 x 1000 x 600	3200 x 1000 x 600
Work table (X / Y)	mm	3100 x 1100	1580 x 1100	2250 x 1100	2700 x 1100	3100 x 1100
Work tank (WxDxH)	mm	4080 x 1700 x 800	2300 x 1700 x 800	3080 x 1700 x 800	3500 x 1700 x 800	4080 x 1700 x 800
Chuck to table	mm	580 ~ 1300	580 ~ 1300	580 ~ 1300	580 ~ 1300	580 ~ 1300
Max electrode weight	Kg	500	500	500	500	500
Max workpiece weight	Kg	16,000	11,000	10,000	10,000	19,000
Max output current	A	120	120 x 2	120 x 2	120 x 2	120 x 2
Best roughness/Wear ratio	Ra / %	0.12 / 0.02	0.12 / 0.02	0.12/0.02	0.12 / 0.02	0.12 / 0.02
Power consumption	KVA	20	20 x 2	20 x 2	20 x 2	20 x 2
Capacity of oil tank	L	5,585	3,415	4,660	5,400	5,915
Total dimensions (WxDxH)	mm	5960 x 4680 x 3730	3420 x 3720 x 3290	5190 x 4680 x 3630	5100 x 4650 x 3690	6110 x 4680 x 3730
Total weight	Kg	19,500	13,950	15,000	18,500	21,000

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