

CALIBER

# METAL PROCESSING

SHAPING THE WORLD

**SXKH<sup>®</sup> GROUP**
**SXKH(Zhejiang) Machinery Co., Ltd.**

Add: No.1 Gehechen, Donggangqi, Xiaogang Street,  
Beilun, Ningbo, China  
Tel: +86 574 86191888

**Shanghai SXKH Automation Co., Ltd.**

Add: Room 303, Building A, No 455 Yanzhan Road, Jiuting  
town, Songjiang District, Shanghai, China

**SXKH Automation India Private Limited**

Add: B-152A, Mayapuri Industrial Area, Phase 1, New  
Delhi-110064, India

**SXKH (HONG KONG) INDUSTRY LIMITED**

Add: New Territories, Hong Kong, China

**SXKH EURO**

Add: Friedrich-Ebert-Straße 9, 35764 Sinn, Germany

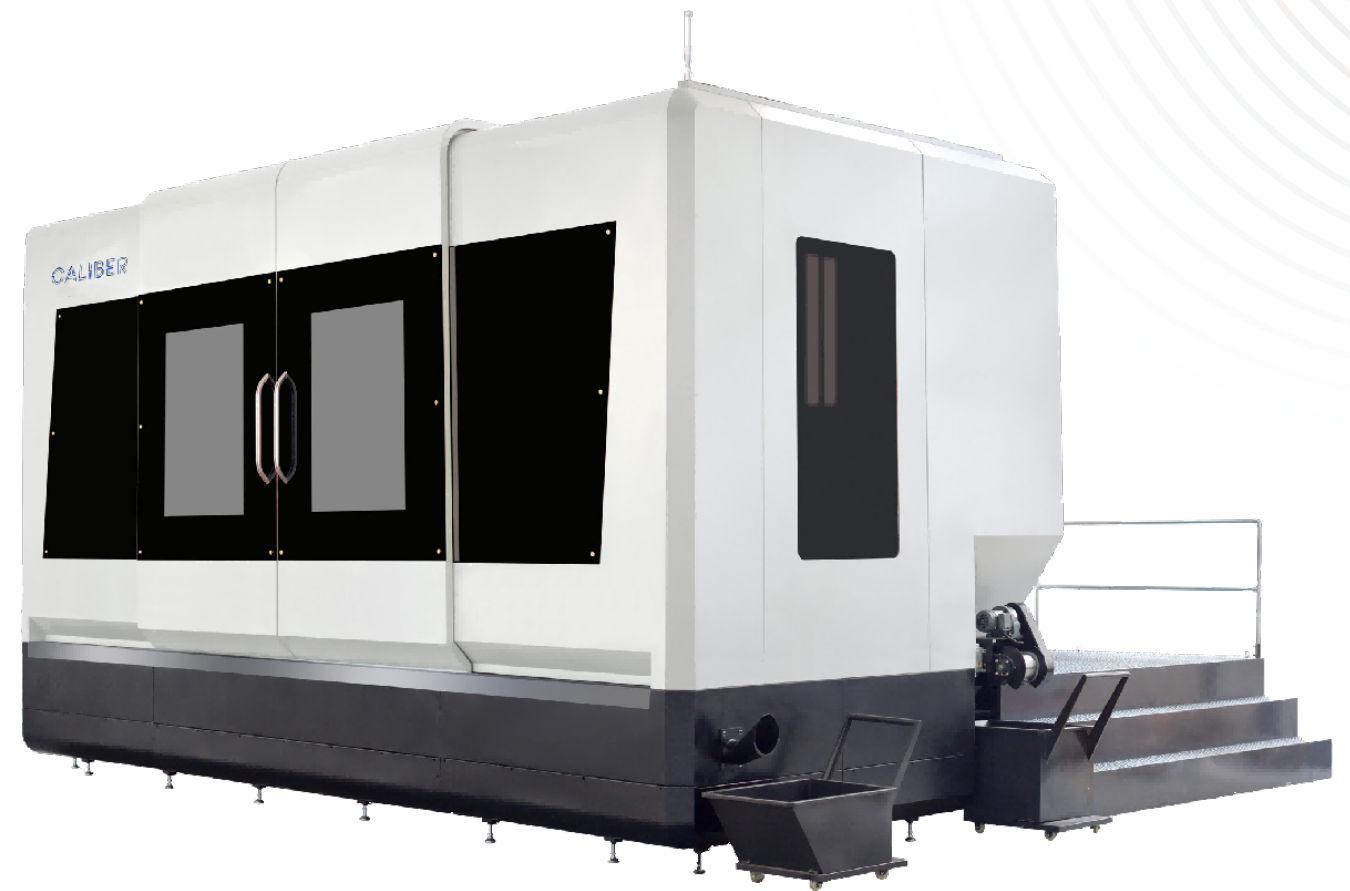
**SXKH Automation Mexico S.R.L de C.V**

Add: Carretera Estatal 431 KM 1.93 Nave 5-B Europark 2,  
ZIP 76246 Santiago de Querétaro, Qro.

**Ningbo Caliber Machinery Co., Ltd**

E-mail: caliber@sxkhglobal.com

Tel(Whatsapp): +86 15158006390



We wish to have our presence across the world.  
We also sincerely welcome new partners to join hands with SXXH  
to help us reach out to global industries.



#### SXXH(Zhejiang)Machinery Co., Ltd.

Located in Ningbo, China, it is mainly engaged in designing, producing and selling Die Spotting Press, Mold Flipper, Mold Inspection Machine, Hydraulic Clamps and Electro-permanent Magnetic Chuck. Ningbo SXXH owns two plants in Ningbo with annual output of 200 sets of die spotting presses, which is one of the first domestic manufacturers of die spotting press.

#### Shanghai SXXH Automation CO., Ltd.

Located in Shanghai, China, it is mainly engaged in providing import service of High-end equipment from Europe and America to Chinese market, including installation and after-sales service. For instance: the six-axis machining center from Moldmak, Portugal, which is the world leading company in Milling & Drilling machine. Meanwhile, Shanghai SXXH also provides Chinese top-quality mold & tool processing equipment to global customers.

#### SXXH Automation India Private Limited

Located in New Delhi, India, it is responsible for all businesses in India market of SXXH Industry.

#### SXXH(HONG KONG)Industry Limited

Located in Hongkong, it is mainly engaged in the development of SXXH Industry business and industrial investment.

#### Ningbo Trans-Artisan Translation Co., Ltd.

As an independent language service enterprise under SXXH Global, it provides strong multi-language support for Chinese manufacturing enterprises to enter the international market.



Ningbo Headquarters



Ningbo Second Branch Factory



SXXH Mexico Company



SXXH Shanghai Global Service Center



SXXH German Factory

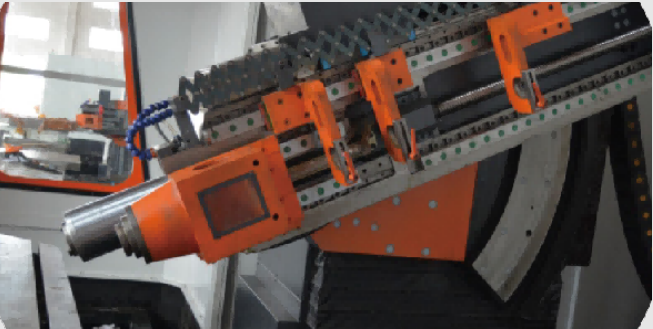
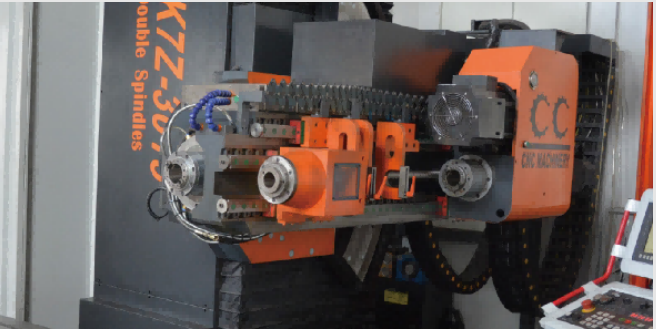
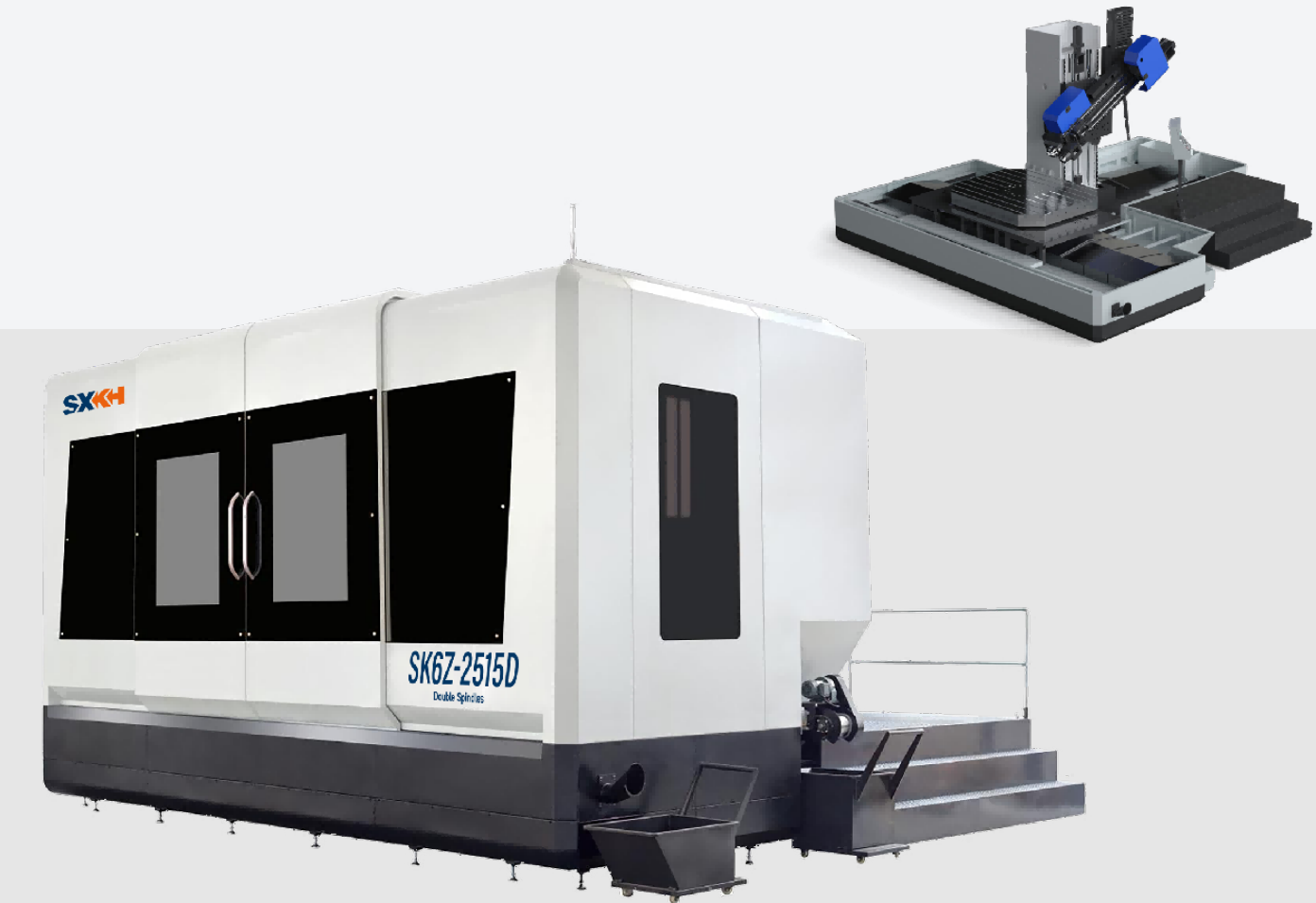


SXXH India

# SIX-AXIS MILLING AND DRILLING COMPOUND MACHINE

SK6Z series milling and drilling compound machine tool is a kind of gun drilling, single tube drilling, milling, tapping multi-function in one of the double spindle six-axis deep hole drilling.

The A-axis rotation angle is 66°, and the unique and novel design of the large angle makes the perfect combination of function and performance, which can effectively solve the complex deep hole processing problems.



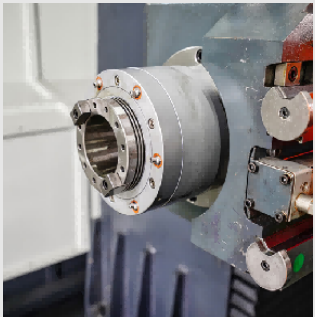
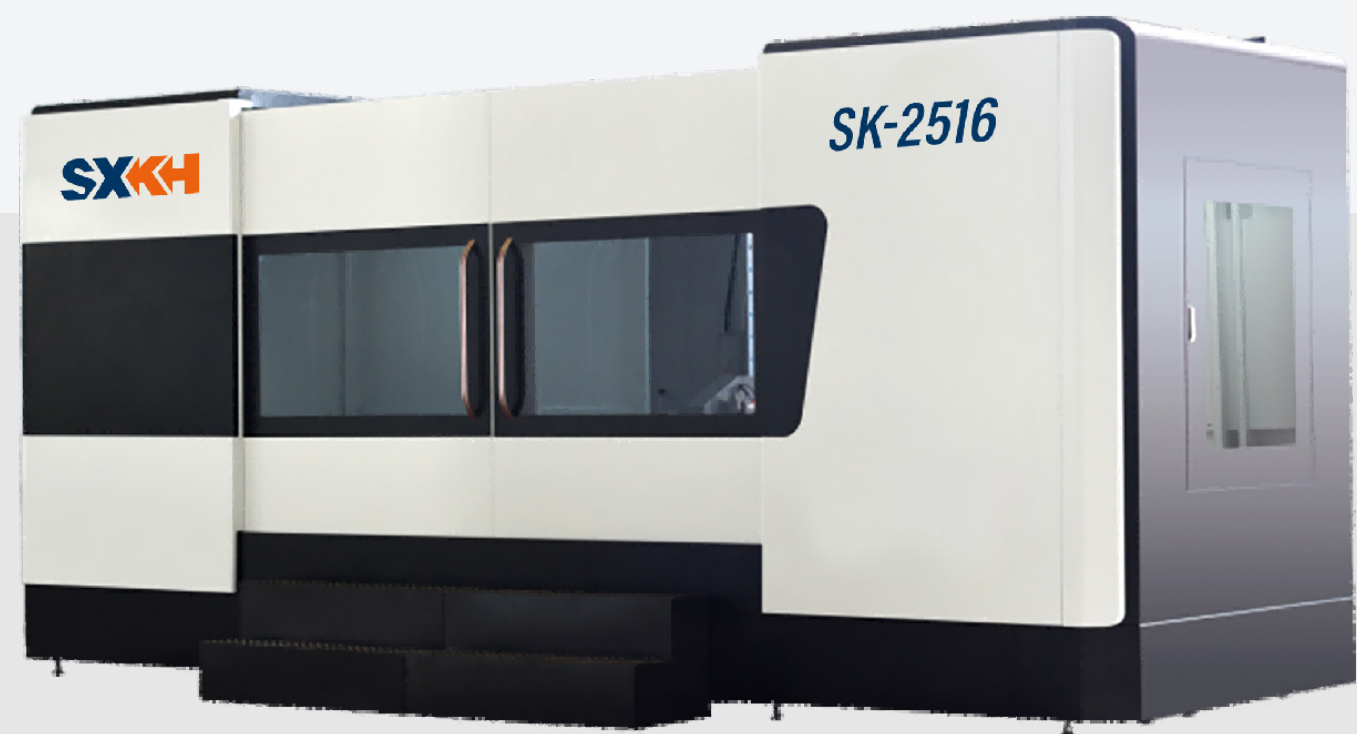
## SIX-AXIS MILLING AND DRILLING COMPOUND MACHINE TECHNICAL PARAMETERS

| ITEMS                |                                | SK6Z-1210D        | SK6Z-1512D        | SK6Z-2015D        | SK6Z-2515D        | SK6Z-3015D        |
|----------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CNC Axis Stroke      | W Drilling One Stroke          | 1000 mm           | 1300 mm           | 1300 mm           | 1500 mm           | 1500 mm           |
|                      | X Longitudinal Travel          | 1200 mm           | 1500 mm           | 2000 mm           | 2850 mm           | 3350 mm           |
|                      | Y Vertical Travel              | 1000 mm           | 1200 mm           | 1500 mm           | 1500 mm           | 1500 mm           |
|                      | Z Cross Travel                 | 800 mm            | 1000 mm           | 1200 mm           | 1200 mm           | 1200 mm           |
|                      | B Table Rotation               | 360°              | 360°              | 360°              | 360°              | 360°              |
|                      | A Tilting Rotation             | +20° /-46°        | +20° /-46°        | +20° /-46°        | +20° /-46°        | +20° /-46°        |
| Drilling Capacity    | Drilling Capacity              | Φ 4 ~ Φ 100 mm    | Φ 4 ~ Φ 100 mm    | Φ 4 ~ Φ 100 mm    | Φ 4 ~ Φ 100 mm    | Φ 4 ~ Φ 100 mm    |
|                      | Ejector Capacity               | /                 | Φ 18 ~ Φ 65 mm    | Φ 18 ~ Φ 65 mm    | Φ 18 ~ Φ 65 mm    | Φ 18 ~ Φ 65 mm    |
|                      | Max. Drilling Stroke           | 1000+300 mm       | 1300+300 mm       | 1300+500 mm       | 1500+500 mm       | 1500+500 mm       |
|                      | Max. Ejector Stroke            | /                 | 1000mm            | 1000mm            | 1000mm            | 1000mm            |
| Milling Capacity     | Max. Milling Cutting Capacity  | 283.5 cm³/min     | 472.5 cm³/min     | 472.5 cm³/min     | 472.5 cm³/min     | 472.5 cm³/min     |
|                      | Rigid Tapping                  | M24               | M30               | M30               | M30               | M30               |
|                      | Helical Threading              | Standard          | Standard          | Standard          | Standard          | Standard          |
| Spindle              | Spindle Taper                  | BT40              | BT50              | BT50              | BT50              | BT50              |
|                      | Max. Speed of Spindle          | 4000 rpm/6000 rpm | 4000 rpm/5333 rpm | 4000 rpm/5333 rpm | 4000 rpm/5333 rpm | 4000 rpm/5333 rpm |
|                      | Power                          | 11 kW/15 kW       | 11 kW/18 kW       | 15 kW/18 kW       | 15 kW/18 kW       | 15 kW/18 kW       |
| Efficiency           | Torque                         | 72 Nm/143 Nm      | 108 Nm/214.5 Nm   | 147 Nm/214.5 Nm   | 147 Nm/214.5 Nm   | 147 Nm/214.5 Nm   |
|                      | Fast Feed(X.Y.Z)               | 10 m/min          | 10 m/min          | 10 m/min          | 10 m/min          | 10 m/min          |
|                      | Fast feed(W)                   | 6 m/min           | 6 m/min           | 6 m/min           | 6 m/min           | 6 m/min           |
|                      | Max. Speed of Working Table(B) | 2 r/min           | 2 r/min           | 1.11 r/min        | 1.11 r/min        | 1.11 r/min        |
| Power                | Max. Speed of Ram(A)           | 150° /min         | 150° /min         | 150° /min         | 150° /min         | 150° /min         |
|                      | Spindle Motor                  | 11 kW/15 kW       | 11 kW/18 kW       | 15 kW/18 kW       | 15 kW/18 kW       | 15 kW/18 kW       |
|                      | X Axis Servo Motor             | 3 kW              | 3 kW              | 3 kW              | 3 kW              | 3 kW              |
|                      | Y Axis Servo Motor             | 3 kW              | 3 kW              | 3 kW              | 3 kW              | 3 kW              |
|                      | W Axis Servo Motor             | 2.5 kW            | 2.5 kW            | 2.5 kW            | 2.5 kW            | 2.5 kW            |
|                      | Z Axis Servo Motor             | 3 kW              | 3 kW              | 3 kW              | 3 kW              | 3 kW              |
|                      | A Axis Servo Motor             | 2.5 kW            | 2.5 kW            | 2.5 kW            | 2.5 kW            | 2.5 kW            |
|                      | B Axis Servo Motor             | 2.5 kW            | 2.5 kW            | 3 kW              | 3 kW              | 3 kW              |
| Accuracy             | Total Power                    | 43 kW             | 45 kW             | 47 kW             | 50 kW             | 53 kW             |
|                      | Positioning accuracy           | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    |
| Cooling System       | Repeat positioning accuracy    | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    | ±0.001mm/300mm    |
|                      | Cooling Liquid Pressure        | 2-10 Mpa          | 2-10/1-1.7 Mpa    | 2-10/1-1.7 Mpa    | 2-10/1-1.7 Mpa    | 2-10/1-1.7 Mpa    |
| Table Specifications | Cooling Liquid Flow            | 6-42 L/min        | 6-42/30-90 L/min  | 6-42/30-90 L/min  | 6-42/30-90 L/min  | 6-42/30-90 L/min  |
|                      | Max. Table Load Capacity       | 3 Ton             | 5 Ton             | 10 Ton            | 15 Ton            | 20 Ton            |
|                      | Resolution                     | 0.001°            | 0.001°            | 0.001°            | 0.001°            | 0.001°            |
|                      | Measurement(L*W)               | 800*800 mm        | 1000*1000 mm      | 1400*1400 mm      | 2000*1600 mm      | 2200*1800 mm      |
| Measurement & Weight | T-slot                         | 22mm              | 22mm              | 28mm              | 28mm              | 28mm              |
|                      | Machine Measurement (L*W)      | 4600*6000 mm      | 5200*6100 mm      | 6200*6600 mm      | 7000*7300 mm      | 7500*7600 mm      |
|                      | Machine Height(H)              | 3150-4150 mm      | 3300-4450 mm      | 3600-4750 mm      | 3600-4750 mm      | 3600-4750 mm      |
|                      | Machine Weight                 | 18 Ton            | 22 Ton            | 32 Ton            | 38 Ton            | 45 Ton            |
| System               | CNC System                     | FANUC Oi-MF PLUS  | FANUC Oi-MF PLUS  | FANUC Oi-MF PLUS  | FANUC Oi-MF PLUS  | FANUC Oi-MF PLUS  |



# THREE-AXIS CNC DEEP HOLE DRILLING MACHINE

The SK Series is primarily designed for deep-hole machining in molds, as well as processing guide pillar and guide bushing holes. As a professional deep-hole machining machine for precision molds, this multi-functional model features three-axis CNC linkage and fully automatic adaptive drilling commands, enabling the machining of slender deep holes without the need for tool retraction. Different models are better suited for processing irregularly shaped molds.



## THREE-AXIS CNC DEEP HOLE DRILLING MACHINE TECHNICAL PARAMETERS

| ITEMS                |                                     | SK-1000      | SK-1613      | SK-1616      | SK-2016      | SK-2516      | SK-3020      |
|----------------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CNC Axis Stroke      | X Longitudinal Travel               | 1000 mm      | 1600 mm      | 1600 mm      | 2000 mm      | 2500 mm      | 3000 mm      |
|                      | Y Vertical Travel                   | 900 mm       | 1000 mm      | 1200 mm      | 1200 mm      | 1500 mm      | 1500 mm      |
| Drilling Capacity    | Drilling Capacity                   | Φ 4 ~ Φ 32mm | Φ 4 ~ Φ 32mm | Φ 4 ~ Φ 38mm | Φ 4 ~ Φ 38mm | Φ 4 ~ Φ 38mm | Φ 4 ~ Φ 38mm |
|                      | Max. Drilling Stroke(Z Axis Travel) | 1000 mm      | 1300 mm      | 1600 mm      | 1600 mm      | 1600 mm      | 2000 mm      |
| Spindle              | Spindle Taper                       | BT40         | BT40         | BT40         | BT40         | BT40         | BT40         |
|                      | Max. Speed of Spindle               | 4500 rpm     | 4500 rpm     | 4500 rpm     | 4500 rpm     | 4500 rpm     | 4500 rpm     |
|                      | Power                               | 7.5 kW       | 11 kW        | 11 kW        | 11 kW        | 11 kW        | 11 kW        |
|                      | Torque                              | 108 Nm       | 157.5 Nm     | 157.5 Nm     | 157.5 Nm     | 157.5 Nm     | 157.5 Nm     |
| Power                | Spindle Motor                       | 7.5 kW       | 11 kW        | 11 kW        | 11 kW        | 11 kW        | 11 kW        |
|                      | X Axis Servo Motor                  | 1.8 kW       | 2.9 kW       | 2.9 kW       | 4.4 kW       | 5.5 kW       | 5.5 kW       |
|                      | Y Axis Servo Motor                  | 1.8 kW       | 2.9 kW       | 2.9 kW       | 4.4 kW       | 4.4 kW       | 4.4 kW       |
|                      | Z Axis Servo Motor                  | 1.8 kW       | 1.8 kW       | 2.3 kW       | 2.3 kW       | 2.3 kW       | 2.3 kW       |
|                      | Total Power                         | 30 kW        | 30 kW        | 32 kW        | 36 kW        | 38 kW        | 42 kW        |
| Accuracy             | Positioning accuracy                | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      |
|                      | Repeat positioning accuracy         | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      | ±0.01mm      |
| Cooling System       | Cooling Liquid Pressure             | 2-10 Mpa     | 2-10 Mpa     | 2-10 Mpa     | 2-10 Mpa     | 2-10 Mpa     | 2-10 Mpa     |
|                      | Cooling Liquid Flow                 | 6-42 L/min   | 6-42 L/min   | 6-42 L/min   | 6-42 L/min   | 6-42 L/min   | 6-42 L/min   |
| Table Specifications | Max. Table Load Capacity            | 6 Ton        | 10 Ton       | 12 Ton       | 14 Ton       | 16 Ton       | 20 Ton       |
|                      | Measurement (L*W)                   | 1200*900 mm  | 1700*1000 mm | 1750*1200 mm | 2100*1200 mm | 2600*1400 mm | 3000*1600 mm |
|                      | T-slot                              | 22mm         | 22mm         | 22mm         | 22mm         | 28mm         | 28mm         |
| Measurement & Weight | Machine Measurement (L*W)           | 3300*5200 mm | 4300*5400 mm | 4300*5900 mm | 5400*5900mm  | 6300*6000mm  | 7400*6800 mm |
|                      | Machine Height(H)                   | 2500-2750 mm | 2550-2900 mm | 2700-3200 mm | 2700-3200 mm | 3050-3850 mm | 3100-3850 mm |
|                      | Machine Weight                      | 9 Ton        | 12 Ton       | 14 Ton       | 17 Ton       | 20 Ton       | 23 Ton       |
| System               | CNC System                          | SYNTEC 22MA  | SYNTEC 22MA  | SYNTEC 22MA  | SYNTEC 22MA  | SYNTEC 22MA  | SYNTEC 22MA  |

# FIVE-AXIS HORIZONTAL MILLING MACHINE

10 m/min  
Fast Feed (X.Y.Z)



## FIVE-AXIS HORIZONTAL MILLING MACHINE TECHNICAL PARAMETERS

| ITEMS                |                                | HM5Z-1210        | HM5Z-1512        | HM5Z-2015        | HM5Z-2515        |
|----------------------|--------------------------------|------------------|------------------|------------------|------------------|
| CNC Axis Stroke      | X Longitudinal Travel          | 1200mm           | 1500mm           | 2000mm           | 2500mm           |
|                      | Y Vertical Travel              | 1000mm           | 1200mm           | 1500mm           | 1500mm           |
|                      | Z Cross Travel                 | 850mm            | 1300mm           | 1300mm           | 1600mm           |
|                      | B Table Rotation               | 360°             | 360°             | 360°             | 360°             |
|                      | A Tilting Rotation             | +20° /-30°       | +20° /-30°       | +20° /-30°       | +20° /-40°       |
| Drilling Capacity    | Max. Milling Cutting Capacity  | 283.5cm³/min     | 283.5cm³/min     | 283.5cm³/min     | 283.5cm³/min     |
|                      | Rigid Tapping                  | M32              | M32              | M32              | M32              |
|                      | Helical Threading              | Standard         | Standard         | Standard         | Standard         |
| Spindle              | Spindle Taper                  | BT50             | BT50             | BT50             | BT50             |
|                      | Max. Speed of Spindle          | 6000r.p.m        | 6000r.p.m        | 6000r.p.m        | 6000r.p.m        |
|                      | Power                          | 15/18.5kw        | 15/18.5kw        | 15/18.5kw        | 15/18.5kw        |
|                      | Torque                         | 143 N.m          | 143 N.m          | 143 N.m          | 143 N.m          |
| Efficiency           | Fast Feed (X.Y.Z)              | 10m/Min          | 10m/Min          | 10m/Min          | 10m/Min          |
|                      | Cutting feed rate(X.Y.Z)       | 3m/Min           | 3m/Min           | 5m/Min           | 5m/Min           |
|                      | Max. Speed of Working Table(B) | 1r/min           | 1r/min           | 1r/min           | 1r/min           |
| Power                | Max. Speed of Ram(A)           | 150° /min        | 150° /min        | 150° /min        | 150° /min        |
|                      | Spindle Motor                  | 15/18.5kw        | 15/18.5kw        | 15/18.5kw        | 15/18.5kw        |
|                      | X Axis Servo Motor             | 3kw              | 3kw              | 3kw              | 3kw              |
|                      | Y Axis Servo Motor             | 3kw              | 3kw              | 3kw              | 3kw              |
|                      | Z Axis Servo Motor             | 3kw              | 3kw              | 3kw              | 3kw              |
|                      | A Axis Servo Motor             | 2.5kw            | 2.5kw            | 2.5kw            | 2.5kw            |
|                      | B Axis Servo Motor             | 2.5kw            | 2.5kw            | 3kw              | 3kw              |
|                      | Total Power                    | 48kw             | 48kw             | 50kw             | 50kw             |
| Accuracy             | Positioning accuracy           | ±0.025mm/0.01mm  | ±0.025mm/0.01mm  | ±0.03mm/0.02mm   | ±0.03mm/0.02mm   |
|                      | Repeat positioning accuracy    | ±0.02mm/0.01mm   | ±0.02mm/0.01mm   | ±0.03mm/0.02mm   | ±0.03mm/0.02mm   |
| Cooling System       | Cooling Liquid Pressure        | 0-48Mpa          | 0-48Mpa          | 0-48Mpa          | 0-48Mpa          |
|                      | Cooling Liquid Flow            | 0-150L/min       | 0-150L/min       | 0-150L/min       | 0-150L/min       |
| Table Specifications | Max. Table Load Capacity       | 3 ton            | 5 ton            | 10 ton           | 20 ton           |
|                      | Resolution                     | 0.001°           | 0.001°           | 0.001°           | 0.001°           |
|                      | Measurement(L*W)               | 1000*1000mm      | 1200*1000mm      | 1600*1400mm      | 1800*2200mm      |
|                      | T-slot                         | 22mm             | 22mm             | 28mm             | 28mm             |
| Measurement & Weight | Machine Measurement (L*W)      | 4000*5750mm      | 4000*5800mm      | 7000*7000mm      | 7000*7000mm      |
|                      | Machine Height(H)              | 4600mm           | 4600mm           | 5000mm           | 5000mm           |
|                      | Machine Weight                 | 25 ton           | 25 ton           | 38 ton           | 40 ton           |
| System               | CNC System                     | FANUC Oi-MF PLUS | FANUC Oi-MF PLUS | FANUC Oi-MF PLUS | FANUC Oi-MF PLUS |

# HPS-A450

## FULL-AUTOMATIC MIRROR EDM MACHINE



Automatic lifting of Working oil tank

High-gloss mirror circuit ( Best surface finish ) Ra **0.07**

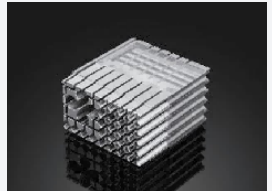
Max. machining speed **750** mm<sup>3</sup>/min

**0.02 mm**  
The corner cleaning ability can reach 0.02mm

**0.002 mm**  
The machining flatness within 0.002mm

**0.005 mm**  
Batch processing stability within 0.005mm

**Connector**  
Significant advantages in processing connectors



### TECHNICAL PARAMETERS

| ITEM                                            | Unit                 | HPS-A450                            | HPS-A650                            | HPS-A850                            |
|-------------------------------------------------|----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| X/Y/Z Axis Working Travel                       | mm                   | 450*350*300                         | 600*500*400                         | 800*500*400                         |
| Working Oil Tank Size (L×W×H)                   | mm                   | 900*690*350                         | 1400*950*500                        | 1600*1050*550                       |
| Table Size (L×W)                                | mm                   | 650*450                             | 800*500                             | 1050*600                            |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra                   | 0.07                                | 0.1                                 | 0.1                                 |
| Max. Machining Speed                            | mm <sup>3</sup> /min | 750                                 | 750                                 | 750                                 |
| Min. Electrode Loss                             | %                    | 0.1                                 | 0.1                                 | 0.1                                 |
| Distance From Electrode Tip To Table            | mm                   | 250-550                             | 300 ~ 650                           | 550 ~ 950                           |
| Max. Electrode Load Capacity                    | Kg                   | 50                                  | 50                                  | 80                                  |
| Max. Worktable Load Capacity                    | Kg                   | 500                                 | 1500                                | 2000                                |
| Machine Weight (Including Oil Tank)             | Kg                   | 4500                                | 4000                                | 5000                                |
| Machine Dimension (L×W×H)                       | mm                   | 2400*2100*2700                      | 2800*2600*2600                      | 3200*2900*2800                      |
| Max. machining current                          | A                    | 75 (Optional 100A)                  | 75 (Optional 100A)                  | 75 (Optional 100A)                  |
| Positioning accuracy                            | um                   | 5                                   | 5                                   | 5                                   |
| Repeat positioning accuracy                     | um                   | 2                                   | 2                                   | 2                                   |
| Drive type                                      |                      | Servo motor (Optional Linear motor) | Servo motor (Optional Linear motor) | Servo motor (Optional Linear motor) |

# HPS-B45S

## HIGH SPEED MIRROR EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra **0.07**

Max. machining speed **750** mm<sup>3</sup>/min

**5**  
FIVE YEAR QUALITY ASSURANCE

**SIMPLY INPUT FOUR BASIC PARAMETERS TO START MACHINING**

Material combination Smoothness Machining area Spark position

**THE POWERFUL GENERATOR AND PERFECT PRECISION FOR ACCURATE WORKS**

◆ Machine No: HPS-B45S    ◆ Electrode Materials: Graphite(Toyo-8)  
◆ Power: 12KVA    ◆ Workpiece material: Steel(420H)



◆ Electrode diameter 150.0mm, processing depth 2.0mm, spark gap 0.1mm on one side, final glossiness Ra0.85  
◆ Processing time 21.5 hours, electrode loss 0.08mm

### TECHNICAL PARAMETERS

| ITEM                                            | Unit                 | HPS-B45S                            |
|-------------------------------------------------|----------------------|-------------------------------------|
| X/Y/Z Axis Working Travel                       | mm                   | 450*350*300                         |
| Working Oil Tank Size (L×W×H)                   | mm                   | 900*640*410                         |
| Table Size (L×W)                                | mm                   | 700*400                             |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra                   | 0.07                                |
| Max. Machining Speed                            | mm <sup>3</sup> /min | 750                                 |
| Min. Electrode Loss                             | %                    | 0.1                                 |
| Distance From Electrode Tip To Table            | mm                   | 100-400                             |
| Max. Electrode Load Capacity                    | Kg                   | 50                                  |
| Max. Worktable Load Capacity                    | Kg                   | 400                                 |
| Machine Weight (Including Oil Tank)             | Kg                   | 3000                                |
| Machine Dimension (L×W×H)                       | mm                   | 2000*2200*2380                      |
| Max. machining current                          | A                    | 75 (Optional 100A)                  |
| Positioning accuracy                            | um                   | 5                                   |
| Repeat positioning accuracy                     | um                   | 2                                   |
| Drive type                                      |                      | Servo motor (Optional Linear motor) |



# HPS-850

## SINGLE HEAD EDM MACHINE

### Remote Diagnostic Function

Improve protection through remote diagnostic function.

Remote assistance

Ra 0.1

High-gloss mirror circuit ( Best surface finish ) Ra 0.1

750 mm<sup>3</sup>/min

Max. machining speed 750 mm<sup>3</sup>/min



### TECHNICAL PARAMETERS

| ITEM                                            | UNIT                 | HPS-540            | HPS-640            | HPS-850            | HPS-1060           | HPS-1260           |
|-------------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| X/Y/Z Axis Working Travel                       | mm                   | 500*400*300        | 600*400*350        | 800*500*400        | 1000*600*400       | 1200*600*450       |
| Working Oil Tank Size (L×W×H)                   | mm                   | 1300*920*450       | 1612*985*540       | 1800*1100*570      | 1800*1300*600      | 2000*1300*600      |
| Table Size (L×W)                                | mm                   | 800*500            | 900*500            | 1150*600           | 1380*800           | 1380*800           |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra                   | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                |
| Max. Machining Speed                            | mm <sup>3</sup> /min | 750                | 750                | 750                | 750                | 750                |
| Min. Electrode Loss                             | %                    | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                |
| Distance From Electrode Tip To Table            | mm                   | 300-600            | 350-700            | 500-900            | 500-900            | 500-950            |
| Max. Electrode Load Capacity                    | Kg                   | 100                | 150                | 180                | 200                | 200                |
| Max. Worktable Load Capacity                    | Kg                   | 1800               | 2000               | 3000               | 4000               | 4000               |
| Machine Weight (Including Oil Tank)             | Kg                   | 3000               | 3700               | 4800               | 5200               | 7000               |
| Machine Dimension (L×W×H)                       | mm                   | 1640*2200*2250     | 2040*2320*2530     | 2280*2600*2690     | 2300*2850*3000     | 2300*2850*3000     |
| Max. machining current                          | A                    | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) |
| Positioning accuracy                            | um                   | 5                  | 5                  | 5                  | 5                  | 5                  |
| Repeat positioning accuracy                     | um                   | 2                  | 2                  | 2                  | 2                  | 2                  |

### FEATURES

- ◆ The seat adopts box-shaped structure design, with an ultra wide trail span, allowing the X and Y axis to run continuously and form a stable parallelism with the tabletop, and achieving precise machining of both large and small molds.
- ◆ The square design of the machine head (BOX) can withstand external forces from the direction and maintain precise machining of the original positioning. Ensure that the precision of heavy-duty electrode machining is not affected.
- ◆ Three axis adopts Japanese Panasonic absolute servo motors, which is fully digital controlled and equipped with an encoder. It can feed back the electrode operation to the drive at any time, allowing the drive to control the motor's operation more accurately. With fast response, small rotational inertia, smooth operation, low noise, no radio interference, no shaking phenomenon and easy maintenance, the machine performance is effectively improved, with characteristics of strong sensitivity and controllability.
- ◆ X, Y, and Z axis all use Taiwan grinding-grade ball screws.
- ◆ X axis and Y axis are designed with full-enclosed reinforced slides, and X-axis rail distance is greater than Y-axis stroke, to ensure the parallelism between the entire stroke of X/ Y axis and the table.
- ◆ Through long-lasting and stable liquid temperature management and configuring the processing cooling system, ensure the machine processing will not be affected by external conditions or processing status changes to maximize the machine's general adaptability to various processing conditions and processing accuracy.
- ◆ Complete peripheral facilities, such as automatic fire extinguishing devices and surface sensing devices for processing fluids, to provide a safe environment.
- ◆ The body is made of FC30 cast iron, which has undergone high-temperature annealing and natural aging treatment.



# HPS-1880II

## DOUBLE HEAD EDM MACHINE

Ra 0.1

High-gloss mirror circuit (Best surface finish) Ra 0.1

750 mm<sup>3</sup>/min

Max. machining speed 750 mm<sup>3</sup>/min



### INTELLIGENT EXPERT SYSTEM

With independent core technology, we are specialized in the R&D and manufacturing of EDM machines. Integrating high-performance EDM processing technology, we are committed to the development direction of artificial intelligence to create higher efficiency for customers.

### TECHNICAL PARAMETERS

| ITEM                                            | UNIT                 | HPS-1260II         | HPS-1470II         | HPS-1680II         | HPS-1880II         | HPS-2110II         | HPS-2510II         | HPS-3510II         |
|-------------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| X/Y/Z Axis Working Travel                       | mm                   | 600*500*400        | 850*700*450        | 1100*800*500       | 1200*800*600       | 1400*800*600       | 1800*900*650       | 2600*900*650       |
| Working Oil Tank Size (L×W×H)                   | mm                   | 2000*1200*600      | 2400*1340*700      | 2628*1521*700      | 3000*1540*700      | 3200*1650*740      | 3800*1800*700      | 4500*1800*700      |
| Table Size (L×W)                                | mm                   | 1200*600           | 1500*800           | 1700*1000          | 2000*1000          | 2500*1200          | 2700*1200          | 3500*1200          |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra                   | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                |
| Max. Machining Speed                            | mm <sup>3</sup> /min | 750                | 750                | 750                | 750                | 750                | 750                | 750                |
| Min. Electrode Loss                             | %                    | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                | 0.1                |
| Distance From Electrode Tip To Table            | mm                   | 330-730            | 550-1000           | 600-1100           | 600-1150           | 600-1200           | 650-1300           | 650-1300           |
| Max. Electrode Load Capacity                    | Kg                   | 150                | 200                | 220                | 250                | 300                | 300                | 300                |
| Max. Worktable Load Capacity                    | Kg                   | 3000               | 4000               | 6000               | 7000               | 7000               | 10000              | 15000              |
| Machine Weight (Including Oil Tank)             | Kg                   | 8800               | 10000              | 12500              | 15000              | 17000              | 19500              | 26000              |
| Machine Dimension (L×W×H)                       | mm                   | 2460*2320*2610     | 3020*2900*3190     | 3600*3800*3850     | 3700*3800*3850     | 3900*4500*4400     | 4200*4500*44400    | 5200*4500*4400     |
| Max. machining current                          | A                    | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) | 75 (Optional 100A) |
| Positioning accuracy                            | um                   | 5                  | 5                  | 5                  | 5                  | 5                  | 5                  | 5                  |
| Repeat positioning accuracy                     | um                   | 2                  | 2                  | 2                  | 2                  | 2                  | 2                  | 2                  |

# DF450S

## SINGLE-AXIS MIRROR ZNC EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra0.28



Best surface finish with orbital head Ra0.15



Max. machining speed 450 mm³/min

### ■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | DF450S         | DF540S         | DF650S         |
|-------------------------------------------------|---------|----------------|----------------|----------------|
| X/Y/Z Axis Working Travel                       | mm      | 450*350*200    | 500*400*220    | 600*500*220    |
| Working Oil Tank Size (L×W×H)                   | mm      | 1060*650*440   | 1160*690*500   | 1320*800*500   |
| Table Size (L×W)                                | mm      | 700*400        | 800*450        | 900*500        |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.28           | 0.28           | 0.28           |
| Best Surface Finish With Orbital Head           | Ra      | 0.15           | 0.15           | 0.15           |
| Max. Machining Speed                            | mm³/min | 450            | 450            | 450            |
| Min. Electrode Loss                             | %       | 0.1            | 0.1            | 0.1            |
| Distance From Electrode Tip To Table            | mm      | 200-500        | 200-600        | 300-700        |
| Max. Electrode Load Capacity                    | Kg      | 100            | 150            | 150            |
| Max. Worktable Load Capacity                    | Kg      | 900            | 1000           | 1000           |
| Machine Weight (Including Oil Tank)             | Kg      | 1460           | 1650           | 2000           |
| Machine Dimension (L×W×H)                       | mm      | 2900*1350*2150 | 3300*1600*2420 | 3500*2250*2480 |

# HPX-435

## HIGH SPEED CNC EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra0.13



Max. machining speed 500 mm³/min

### ■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | HPX-435               |
|-------------------------------------------------|---------|-----------------------|
| X/Y Axis Working Travel                         | mm      | 400*350               |
| Z+W Axis travel                                 | mm      | Z Axis 200+W Axis 200 |
| Working Oil Tank Size (L×W×H)                   | mm      | 800*600*400           |
| Table Size (L×W)                                | mm      | 700*400               |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.13                  |
| Max. Machining Speed                            | mm³/min | 500                   |
| Min. Electrode Loss                             | %       | 0.1                   |
| Distance From Electrode Tip To Table            | mm      | 100-400               |
| Max. Electrode Load Capacity                    | Kg      | 50                    |
| Max. Worktable Load Capacity                    | Kg      | 400                   |
| Machine Weight (Including Oil Tank)             | Kg      | 1300                  |
| Machine Dimension (L×W×H)                       | mm      | 2500*1500*2500        |
| Max. machining current                          | A       | 50                    |
| Positioning accuracy                            | um      | 7                     |
| Repeat positioning accuracy                     | um      | 4                     |



# HPX-T45

HIGH SPEED MIRROR EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra0.1



Max. machining speed  
500 mm³/min

■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | HPX-T45        |
|-------------------------------------------------|---------|----------------|
| X/Y/Z Axis Working Travel                       | mm      | 450*350*300    |
| Working Oil Tank Size (L×W×H)                   | mm      | 850*600*380    |
| Table Size (L×W)                                | mm      | 700*400        |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.1            |
| Max. Machining Speed                            | mm³/min | 500            |
| Min. Electrode Loss                             | %       | 0.1            |
| Distance From Electrode Tip To Table            | mm      | 100-400        |
| Max. Electrode Load Capacity                    | Kg      | 50             |
| Max. Worktable Load Capacity                    | Kg      | 400            |
| Machine Weight (Including Oil Tank)             | Kg      | 2500           |
| Machine Dimension (L×W×H)                       | mm      | 1780*2500*2500 |
| Max. machining current                          | A       | 50             |
| Positioning accuracy                            | um      | 5              |
| Repeat positioning accuracy                     | um      | 2              |

# HPX-C45S

FULLY AUTOMATIC MIRROR EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra0.1



Max. machining speed  
500 mm³/min

■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | HPX-C45S       |
|-------------------------------------------------|---------|----------------|
| X/Y/Z Axis Working Travel                       | mm      | 450*300*300    |
| Working Oil Tank Size (L×W×H)                   | mm      | 800*600*350    |
| Table Size (L×W)                                | mm      | 700*400        |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.1            |
| Max. Machining Speed                            | mm³/min | 500            |
| Min. Electrode Loss                             | %       | 0.1            |
| Distance From Electrode Tip To Table            | mm      | 300-600        |
| Max. Electrode Load Capacity                    | Kg      | 120            |
| Max. Worktable Load Capacity                    | Kg      | 1500           |
| Machine Weight (Including Oil Tank)             | Kg      | 2000           |
| Machine Dimension (L×W×H)                       | mm      | 1250*2200*2300 |
| Max. machining current                          | A       | 50             |
| Positioning accuracy                            | um      | 5              |
| Repeat positioning accuracy                     | um      | 2              |

# HPX-800

## SINGLE HEAD EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra 0.13



Max. machining speed 500 mm³/min

### ■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | HPX-500        | HPX-600        | HPX-800        | HPX-1200       | HPX-1400       | HPX-1800       |
|-------------------------------------------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|
| X/Y/Z Axis Working Travel                       | mm      | 500*400*300    | 650*400*350    | 850*500*400    | 1200*600*500   | 1400*700*500   | 1800*800*600   |
| Working Oil Tank Size (L×W×H)                   | mm      | 1300*880*540   | 1600*900*580   | 1800*1000*600  | 2200*1150*570  | 2550*1300*700  | 3500*1800*650  |
| Table Size (L×W)                                | mm      | 800*500        | 900*500        | 1100*600       | 1300*800       | 1500*900       | 2000*1000      |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.13           | 0.13           | 0.13           | 0.13           | 0.13           | 0.13           |
| Max. Machining Speed                            | mm³/min | 500            | 500            | 500            | 500            | 500            | 500            |
| Min. Electrode Loss                             | %       | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            |
| Distance From Electrode Tip To Table            | mm      | 700            | 750            | 900            | 500-950        | 690-1190       | 600-1200       |
| Max. Electrode Load Capacity                    | Kg      | 120            | 150            | 180            | 180            | 400            | 180            |
| Max. Worktable Load Capacity                    | Kg      | 1800           | 2000           | 3000           | 3500           | 5000           | 7000           |
| Machine Weight (Including Oil Tank)             | Kg      | 3000           | 3700           | 5000           | 6000           | 8000           | 13000          |
| Machine Dimension (L×W×H)                       | mm      | 2300*2770*2650 | 2040*2320*2530 | 2280*2600*2690 | 2600*3065*3100 | 3500*4400*3310 | 3800*4900*3700 |
| Max. machining current                          | A       | 50             | 50             | 50             | 50             | 50             | 50             |
| Positioning accuracy                            | um      | 5              | 5              | 5              | 5              | 5              | 5              |
| Repeat positioning accuracy                     | um      | 2              | 2              | 2              | 2              | 2              | 2              |

# HPX-1200II

## DOUBLE HEAD EDM MACHINE



High-gloss mirror circuit ( Best surface finish ) Ra 0.13



Max. machining speed 500 mm³/min

### ■ TECHNICAL PARAMETERS

| ITEM                                            | Unit    | HPX-1200II     | HPX-1400II     | HPX-1800II     |
|-------------------------------------------------|---------|----------------|----------------|----------------|
| X/Y/Z Axis Working Travel                       | mm      | 600*500*400    | 850*700*450    | 1200*800*600   |
| Working Oil Tank Size (L×W×H)                   | mm      | 2000*1250*600  | 2250*1300*700  | 3500*1800*650  |
| Table Size (L×W)                                | mm      | 1300*600       | 1500*900       | 2000*1000      |
| High-Gloss Mirror Circuit (Best Surface Finish) | Ra      | 0.13           | 0.13           | 0.13           |
| Max. Machining Speed                            | mm³/min | 500            | 500            | 500            |
| Min. Electrode Loss                             | %       | 0.1            | 0.1            | 0.1            |
| Distance From Electrode Tip To Table            | mm      | 550-1000       | 600-1150       | 600-1200       |
| Max. Electrode Load Capacity                    | Kg      | 180            | 400            | 450            |
| Max. Worktable Load Capacity                    | Kg      | 3500           | 4000           | 6500           |
| Machine Weight (Including Oil Tank)             | Kg      | 7000           | 8700           | 14000          |
| Machine Dimension (L×W×H)                       | mm      | 3530*3400*3370 | 3800*3650*3430 | 3890*4400*3590 |
| Max. machining current                          | A       | 50             | 50             | 50             |
| Positioning accuracy                            | um      | 5              | 5              | 5              |
| Repeat positioning accuracy                     | um      | 2              | 2              | 2              |

# CORE CONFIGURATION

## Standard Configuration



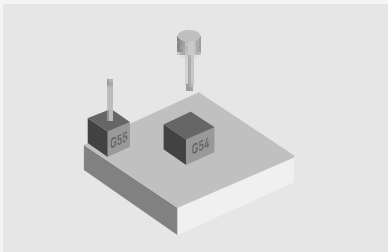
◆ Intelligent Expert System



◆ Metal keyboard



◆ Multi-function hand control box



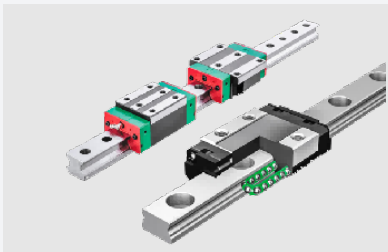
◆ Multi position automatic centering



◆ Panasonic servo motor and drive



◆ Taiwan HIWIN or Japan THK screw



◆ Taiwan HIWIN or Japan THK guide rail



◆ Electrode clamp rail



◆ Fine grained permanent magnet suction cup

## Optional Configuration

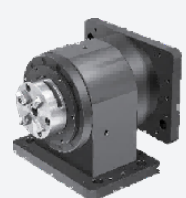


Table top four axis



EROWA fixture



Oil cooler



C axis



Movement head



Voltage stabilizer



Electrode library

# SUPERIOR PERFORMANCE



Linux industrial level operating platform, free from copyright restrictions.



Large 64GB memory for storing more data.



Built-in core database, icon display, easy to operate.



Cluster networking, with convenient management.



Remote assistance, one-touch calling and immediate response.



Touch operation

## Configuration

- ◆ 19" touch capacitive display
- ◆ Industrial level metal crystal keypad + touchpad
- ◆ Multi-function hand control box (automatic contact counting, clearing, 1/2 and coordinate system switching)

## Circuit

- ◆ High-gloss mirror circuit (best finish Ra0.1)
- ◆ Ultra low loss circuit
- ◆ Ultra cemented carbide circuit
- ◆ Small current finishing circuit, minimum IP0.1
- ◆ Graphite circuit

## Machining Module

- ◆ Deep bone position machining module
- ◆ Large area machining module
- ◆ Screw machining module
- ◆ Helical gear machining module (C-axis needs to be equipped)

## Other Functions

- ◆ Support five-axis linkage
- ◆ Minimum drive 0.0001mm
- ◆ Accidental power-off protection system (accidental power-off machining coordinate memory protection)
- ◆ Anti-carbon buildup, arc release and automatic cleaning of machining surface
- ◆ The maximum movement speed of the screw is 5m/min

## FEATURES

- ◆ Externally connect the electrode library of the Robot.
- ◆ The X/Y/Z three-axis adopts Japanese THK screw and Japanese Panasonic absolute servo motor, ensuring the strong performance of the machine tool μ-grade high precision, and the precision stability and retention in long-term use.
- ◆ The column adopts a one-stage structure, which makes the Z axis more rigid and allows for easy and flexible processing of heavy-duty electrodes.
- ◆ Immersion processing is adopted, to effectively ensure processing accuracy and surface finish.
- ◆ The whole machine adopts centralized lubrication, providing uniform lubrication on all rail surfaces, with smooth and long-lasting axial movement accuracy.
- ◆ Complete peripheral facilities, such as automatic fire extinguishing devices and surface sensing devices for processing fluids, to provide a safe environment.
- ◆ The body is made of FC30 cast iron, which has undergone high-temperature annealing and natural aging treatment.



Electrode library combination

## TECHNICAL PARAMETERS OF ELECTRIC CONTROL BOX

| ITEM                              | Unit                 | HPS-T750      |
|-----------------------------------|----------------------|---------------|
| Maximum machining current         | A                    | 75            |
| Best surface finish (Ra)          | μm                   | 0.07          |
| Minimum electrode loss            | %                    | 0.1           |
| Maximum machining speed           | mm <sup>3</sup> /min | 800           |
| Net weight                        | Kg                   | 350           |
| Power (individual electrical box) | KW                   | 15            |
| Overall size (L×W×H)              | mm                   | 550×1800×1950 |



# ZNC EDM

WITH AC SERVO MOTOR (INTEGRATED TYPE)



## TECHNICAL PARAMETERS

| ITEM                                                   |        | UNIT | ZNC320Y        | ZNC350Y        | ZNC450Y        | ZNC540Y        |
|--------------------------------------------------------|--------|------|----------------|----------------|----------------|----------------|
| Worktable Size(LxW)                                    |        | mm   | 500x300        | 630x350        | 700x450        | 800x500        |
| Coordinate Axes Travel                                 | X Axis | mm   | 300            | 350            | 450            | 500            |
|                                                        | Y Axis | mm   | 200            | 250            | 350            | 400            |
|                                                        | Z Axis | mm   | 200            | 200+200        | 250+250        | 250+250        |
| Worktable Internal Size(LxWxH)                         |        | mm   | 785x540x320    | 875x540x380    | 1205x600x450   | 1255x685x480   |
| Max. Electrode Weight                                  |        | kg   | 50             | 75             | 75             | 100            |
| Max. Worktable Load Capacity                           |        | kg   | 450            | 500            | 700            | 1000           |
| Distrance From Electrode Plate To Worktable            | Max    | mm   | 560            | 650            | 700            | 760            |
|                                                        | Min    | mm   | 360            | 250            | 200            | 260            |
| Z axis Two-direction Positioning Accuracy A            |        | mm   | 0.009/300mm    | 0.009/300mm    | 0.009/300mm    | 0.009/300mm    |
| Z Axis One-direction Re-positioning Accuracy R+ and R- |        | mm   | 0.004/300mm    | 0.004/300mm    | 0.004/300mm    | 0.004/300mm    |
| Z Axis Of The Reverse Difference (Loss of Momentum) B  |        | mm   | 0.006/300mm    | 0.006/300mm    | 0.006/300mm    | 0.006/300mm    |
| Oil Tank Capacity                                      |        | L    | 400            | 450            | 500            | 550            |
| Machine Weight                                         |        | kg   | 1200           | 1300           | 1600           | 1900           |
| Machine Dimension (LxWxH)                              |        | mm   | 1575x1180x2320 | 1605x1265x2500 | 1920x1580x2380 | 2070x1635x2450 |

| ELECTRIC CONTROL CABINET  |         |          |
|---------------------------|---------|----------|
| ITEM                      | UNIT    | AC SERVO |
| Max. Processing Current   | A       | 30       |
| Max. Processing Speed     | Mm³/min | 300      |
| Min Electrode Consumption |         | ≤0.1%    |
| Optinum Roughness         | μm      | 0.15     |
| Total Input Power         | kw      | 10       |

# ZNC EDM

(AC SERVO SPLIT TYPE)



## TECHNICAL PARAMETERS

| ITEM                                                   |        | UNIT | ZNC320         | ZNC350         | ZNC450         | ZNC540         | ZNC760         |
|--------------------------------------------------------|--------|------|----------------|----------------|----------------|----------------|----------------|
| Worktable Size (LxW)                                   |        | mm   | 500x300        | 630x350        | 700x450        | 800x500        | 1200x700       |
| Coordinate Axes Travel                                 | X Axis | mm   | 300            | 350            | 450            | 500            | 700            |
|                                                        | Y Axis | mm   | 200            | 250            | 350            | 400            | 600            |
|                                                        | Z Axis | mm   | 200            | 200+200        | 250+250        | 250+250        | 300+300        |
| Worktable Internal Size (LxWxH)                        |        | mm   | 835x550x320    | 885x570x380    | 1180x620x450   | 1255x705x480   | 1940x1050x600  |
| Max. Electrode Weight                                  |        | kg   | 50             | 75             | 75             | 100            | 150            |
| Max. Worktable Load Capacity                           |        | kg   | 450            | 500            | 700            | 1000           | 2000           |
| Distrance From Electrode Plate To Worktable            | Max    | mm   | 560            | 650            | 700            | 760            | 1000           |
|                                                        | Min    | mm   | 350            | 250            | 200            | 260            | 400            |
| Z Axis Two-direction Positioning Accuracy A            |        | mm   | 0.008/300mm    |                |                |                |                |
| Z Axis One-direction Re-positioning Accuracy R+ and R- |        | mm   | 0.004          |                |                | 0.006          |                |
| Z Axis Of The Reverse Difference (Loss Of Momentum) B  |        | mm   | 0.006          |                |                | 0.008          |                |
| Oil Tank Capacity                                      |        | L    | 350            | 500            | 600            | 650            | 800            |
| Machine Weight                                         |        | kg   | 1200           | 1300           | 1600           | 1900           | 3500           |
| Machine Dimension (LxWxH)                              |        | mm   | 1320x1150x2060 | 1350x1210x2080 | 1485x1420x1980 | 1600x1600x2030 | 2100x2000x2800 |

| ELECTRIC CONTROL CABINET  |         |          |
|---------------------------|---------|----------|
| ITEM                      | UNIT    | AC SERVO |
| Max. Processing Current   | A       | 30       |
| Max. Processing Speed     | Mm³/min | 300      |
| Min Electrode Consumption |         | ≤0.1%    |
| Optinum Roughness         | μm      | 0.15     |
| Total Lnput Power         | kw      | 10       |

# CNC EDM DRILL



| TECHNICAL PARAMETERS                   |        |                    |                    |
|----------------------------------------|--------|--------------------|--------------------|
| ITEM                                   | UNIT   | CNC4030            | CNC5040            |
| Worktable Size(LxW)                    | mm     | 400x600            | 440x630            |
| Worktable Stroke                       | mm     | 300x400            | 400x500            |
| Coordinate Axes Travel                 | Z Axis | mm                 | 350                |
|                                        | W Axis | mm                 | 300                |
| Max. Distance From Guider To Worktable | mm     | 50-350             | 200-500            |
| Max. Machining Current                 | A      | 30                 | 30                 |
| Electrode Diameter                     | mm     | Φ0.2-φ3.0          | Φ0.2-φ3.0          |
| Max. Capacity Of Worktable             | kg     | 200                | 200                |
| Working Liquid                         |        | Water              | Water              |
| Power Supply                           |        | 380V/50HZ          | 380V/50HZ          |
| Total Input Power                      | kw     | 3.5                | 3.5                |
| Machine Dimension (LxWxH)              | mm     | 1200x1000x2170     | 1300x1075x2320     |
| Machine Weight                         | kg     | 800                | 900                |
| Digital Display                        |        | Three Axes Digital | Three Axes Digital |

# CNC WIRE CUT EDM

MACHINE BH TYPE (OPTIONAL: AC SERVO CONTROL)



## TECHNICAL PARAMETERS

| ITEM                    | UNIT                  | BH-320                                                | BH-400         | BH-500         | BH-630         |
|-------------------------|-----------------------|-------------------------------------------------------|----------------|----------------|----------------|
| Worktable Size(LxW)     | mm                    | 760×520                                               | 850×600        | 1000×750       | 1170×830       |
| Worktable Travel(XxY)   | mm                    | 400×320                                               | 500×400        | 630×500        | 800×630        |
| Max. Cut Thickness(Z)   | mm                    | 250                                                   | 250            | 300            | 300            |
| Max. Capacity Loading   | kg                    | 300                                                   | 500            | 800            | 1000           |
| Max. Cutting Speed      | mm <sup>2</sup> / min | 180                                                   |                |                |                |
| Max. Current            | A                     | 8                                                     |                |                |                |
| Process Roughness (Ra.) | Ra(um)                | One Cut≤2.3um    Second Cut≤1.6um    Third Cut ≤1.0um |                |                |                |
| Cutting Accuracy        | mm                    | straight line 0.005 octagonal 0.01                    |                |                |                |
| Jump Accuracy           |                       | 0.01mm/0-200mm    0.015/0-350mm    0.02mm/0-500mm     |                |                |                |
| Machine Taper           | mm                    | ±3°/80 (Optional ±10°/50)                             |                |                |                |
| Wire Diameter Range     | mm                    | 0.12-0.25 (standard 0.18)                             |                |                |                |
| Motor Drive System      | /                     | X,Y STEP MOTOR(OPTIONAL:AC SERVO MOTOR)               |                |                |                |
| Water Tank              | /                     | High Pressure WEDM-LS filter Volume 100L              |                |                |                |
| Working Liquid          |                       | Water Based Liquid                                    |                |                |                |
| Consumed Power          | kVA                   | ≤3.5                                                  |                |                |                |
| Power Supply            | /                     | 380V/50HZ/3PH                                         |                |                |                |
| Machine Weight          | kg                    | 1860                                                  | 2160           | 2750           | 3450           |
| Machine Dimension       | mm                    | 1570×1100×1700                                        | 1600×1220×1700 | 1850×1400×1800 | 2070×1655×2060 |

# SUPER DRILL EDM



| TECHNICAL PARAMETERS                   |        |                                                |                |
|----------------------------------------|--------|------------------------------------------------|----------------|
| ITEM                                   | UNIT   | BH4030                                         | BH5040         |
| Worktable Size (LxW)                   | mm     | 400x600                                        | 440x630        |
| Worktable Stroke                       | mm     | 300x400                                        | 400x500        |
| Coordinate Axes Travel                 | Z Axis | mm                                             | 400            |
|                                        | W Axis | mm                                             | 350            |
| Max. Distance From Guider To Worktable | mm     | 85-435                                         | 235-585        |
| Max. Machining Current                 | A      | 30                                             | 30             |
| Electrode Diameter                     | mm     | Φ0.3--φ3.0                                     | Φ0.3--φ3.0     |
| Max. Capacity Of Worktable             | kg     | 200                                            | 300            |
| Working Liquid                         |        | Water                                          | Water          |
| Power Supply                           |        | 380V/50HZ                                      | 380V/50HZ      |
| Total Input Power                      | kw     | 3.5                                            | 3.5            |
| Machine Dimension (LxWxH)              | mm     | 1060x1050x1950                                 | 1250x1150x2100 |
| Machine Weight                         | kg     | 650                                            | 750            |
| Digital Display                        |        | Two Axis digital (Optional:Three Axes Digital) |                |
| Digital Display                        |        | Yes (Optional)                                 |                |

# HIGH-PRECISION LATHE

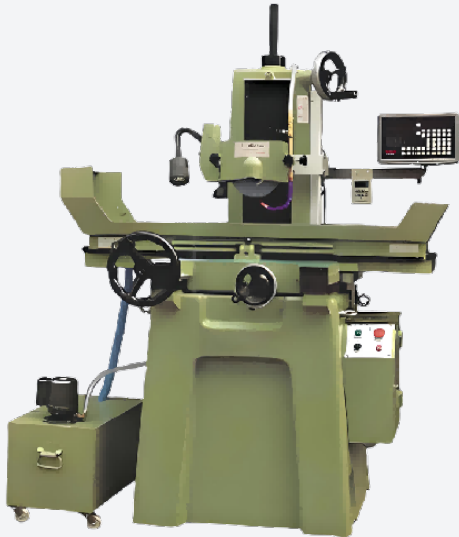
Our lathe are designed for precision, stability, and efficiency. Built with a rigid structure and high-quality components, they ensure accurate turning, threading, facing, and drilling operations across a wide range of materials. Ideal for both small-batch and large-scale production, each model is engineered for easy operation, long service life, and minimal maintenance. Optional CNC control systems provide enhanced automation and repeatability, making them suitable for various industrial and workshop applications.



| Specification            |
|--------------------------|
| 0632*1000/750            |
| 0636*1000/750            |
| 6236*1000                |
| 6241*1000/1500/2000      |
| 6246*1000/1500/2000      |
| 6251*1000/1500/2000/3000 |
| 6256*1000/1500/2000/3000 |

# PRECISION GRINDING MACHINE

Our surface grinding machine is built for high-precision finishing and superior surface quality. Designed with a rigid structure and smooth table movement, it ensures consistent and accurate grinding of metal and non-metal materials. Ideal for tool rooms, mold workshops, and production lines, this machine offers stable performance, easy operation, and fine adjustment control. Whether for flat surfaces or complex workpieces, it delivers excellent repeatability and long service life.



| Specification |
|---------------|
| 450*150       |
| 455*200       |
| 600*300       |
| 800*400       |
| 1000*300      |
| 1000*400      |
| 1000*500      |
| 1250*700      |

# PRECISION MILLING MACHINE

Our milling machine is engineered for versatility, accuracy, and long-lasting performance. Suitable for a wide range of milling tasks—including face milling, slotting, drilling, and contouring—it provides exceptional rigidity and smooth operation. With a solid construction and precision-ground components, this machine ensures high-quality machining results across metals and other materials. Ideal for workshops, tool rooms, and production environments, it offers easy operation, low maintenance, and reliable performance for both beginners and experienced machinists.



| Specification |
|---------------|
| 745*400       |
| 760*400       |
| 860*400       |
| 1010*400      |
| 760*380       |
| 660*380       |
| 660*450       |
| 1000*360      |
| 1200*480      |

# RADIAL DRILLING MACHINE

Our radial drilling machine is designed for heavy-duty drilling with exceptional flexibility and precision. Featuring a robust column, adjustable radial arm, and smooth gear-driven spindle, it allows for accurate drilling over large workpieces without repositioning. Ideal for workshops and industrial applications, this machine supports a wide range of operations including drilling, boring, reaming, and tapping. Its user-friendly controls and durable construction ensure stable performance, long service life, and efficient operation across demanding tasks.



| Specification |
|---------------|
| 3040*13/2     |
| 3050*16/1     |
| 3063*20/1     |
| 3080*25/1     |