



#### Input power

AC220V ± 5V 3 Phase 50/60Hz ± 1Hz (15 kVA)

#### **Environment conditions**

- 1. Optimun room. temperature : 23 ± 0.5°C Humidity: below 75% RH.
- 2. Minimum floor vibration.
- 3. Avoid being located against sunshine.
- 4. Systems or set in a place that received directly sunshine.
- 5. Clean and low dust environment.

#### Space

Take notice of the space for machine stroke to move during normal operation and daily maintenance.

#### Grounding

- 1. It is recommended to have a grounding resistance of 10  $\Omega$  or less.
- 2. An independent ground is recommended.
- 3. The grounding cable should be 14mm<sup>2</sup>.

#### Demand of air pressure

Air pressure of 6kg/cm<sup>2</sup> for options of AWT and submerged machine is needed.

| POWER SUPPLY UNIT   |                      |
|---------------------|----------------------|
| Circuit system      | Power MOS Transistor |
| Max. outpot current | 25A                  |
| IP select           | 10                   |
| Off time select     | 50                   |

| CNC UNIT                       |   |
|--------------------------------|---|
| Data Input                     | keyboard, RS-232C, usb port             |
| Display                        | 15-Inch Color                           |
| Control system                 | 32bit, 1-CPU, Semi Closed Loop          |
|                                | Software Servo System                   |
| Control axis                   | X, Y, U, V, Z (5 Axis)                  |
| Measurement resolution         | 0.001mm                                 |
| Max. command value             | ± 9999.999mm                            |
| Movement measuring system      | Linear / Circuler                       |
| Command System                 | Abs / INC                               |
| Machining feed control         | Servo / Const. Feed                     |
| Scaling                        | 0.001-9999.999                          |
| Machining EDM Condition Memory | 1000-9999                               |
| T-1-1 AQ B1                    | 3 Phase 220 10% / 11kVA                 |
| Total AC Power Input           | 12.5kVA is for RX1283 and larger models |









## New Generation AWT P

Nearly 100% Reliable Threading, open air and in the kerf.



#### **HP-AVR**

9

CHME

Power and Servo stabilizer. Less wire breaks and high efficiency repeat cutting.



# New G7 Energy Saving Power Supply

Longer durability of electronic components: Latest G7 features lower temperature inside the power supply by utilizing advanced Cool MOSFET transistor to reduce circuit impedance by 40%(compared with G6).



## **Newest W5F Control**

CHMER writes their own software allowing for customer upgrade at a later date.

→ G32F



① G32S

## NEW GENERATION SERIES WIRE CUT EDM

Revolutionary and Innovated design to meet mostly demanding of precision mold makers. Integrated technology and visual appearance upgrade the users a better cutting experience and create high C/P value on this Universal Wire Cut EDM.





G 32F







Against the diversity processing on Automobile & Household appliances Industries demands. Based on expertise the mechanism design of developing a commercial value large travel EDM wire cut in apply.





The Best Solution for Molds of the Automobile and Household Appliances Industries Household Appliances







## /// SAMPLE ILLUSTRATION



O Great Thickness Combined Cutting

Cutting times: 3 Workpiece material: SKD-11 Workpiece thickness: 100mm Wire diameter: 0.25mm



RX1283S ©

① RX1065S



## //// High Rigidity and Thermal Balanced Structure

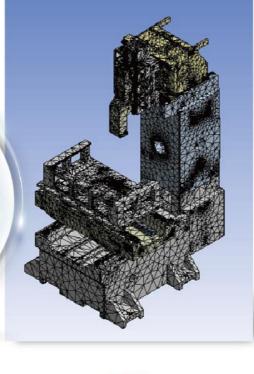
### G Series – FEM Analysis & Optimize Mechanism Design

To meet all oriented cutting demands, the machine has been optimized design by 3D simulation and FEM analysis to obtain the stability and extend the machine life.

Center-Of-Gravity position on leveling pads, maintain an enormous machine accuracy without deformation.







## Mechanical Features





## //// 『G7』 Generator Power Control System

#### **AC Electrolysis-Free Power**

AC & DC switchable power supply. AC used for minimum cobalt depletion and best surface roughness in Carbides, also best cutting speed in PCD and PCBN materials. Also extend the life-Span of molds.





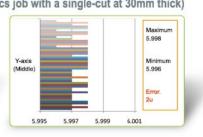
#### **HP-AVR Cutting Voltage Stabilizer**

Automatic/Smart voltage-stabilizing power supply.

By using the cutting-edge technology, the new power control system can effective transform the unstable energy into pure stabilized electricity. Through it, the smart logic of the power control can effectively to transform and supply the discharge power for a fast cutting feed.







## **NES - Energy Saving Power Supply**

With exclusively developed power saving techniques; the New Power Control system can transform the power applied in discharge process and recharge the electricity of the generator. This process can reduce the power consumption up to over 20% (compared with the previous models). Also, it reduces the heat emission problem. It fits the idea of energy saving and carbon emission reduction.



- Excellent thermal balance and rigid cast construction to ensure the best machining accuracy and durability. U-V axes, with linear guide way for accurate taper cutting.
- Using direct drive AC servo motors, high precision ball screws on linear guide ways with optional. 005mm resolution glass scale, assures precise positioning and fast response to cutting conditions.
- Stainless steel 3-sided worktable and brushed stainless work tank for long endurance and least maintenance.
- U-V axes with up to ±50mm travel for wide taper angles (± 21 degree). (Reach Condition: 100mm Z-axis height and DA+DB=15mm at least; a set of wide-angle diamond guides and nozzles are required.)



## Professional Industrial High Speed Processor & Discharge Erosion control

Embedded DOS OS system, reduce burden on processor, more stability of control system and better speed. The superior ASIC Chip, increases the response speed and feedback of cutting servo / current / voltage by real-time. DOS greatly improves CPU reliability while virtually eliminating CPU virus.

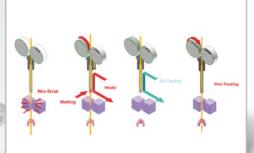
DOS also is instantly on; no booting time required. (Windows OS is available as an option)



## **CHMER The Newest Generation AWT**

## //// Unattended over night and over weekend Auto Threading





## Reliable automatic wire threading system control

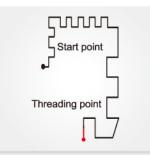
- · Capable of threading wire under water and on location. No need to return back to start point, drain the work-tank and then dry-run to wire break point.
- Simply design to make maintenance easy and cost less.
- Can thread wire at stepped work-piece, when the upper head cannot reach the work-piece.



## The Newest Generation AWT

「EC」 Tension Control Technology, ensures a constant tension to obtain superb threading rate, less than 10 seconds. Patented in-house Auto Wire Threading(AWT) can thread 0.07mm Dia. wire. Beside more simple and concise AWT mechanism can effectively reduce the building cost, failure rate so as to the frequency of maitenance.

## ///All new servo system feedback module of AWT



## Wire Rethread at break

Immediately perform rethreading when wire breaks.

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|   |                    | 1821-ST/e   | DOX                     |                                       | 317 0  | ITP R-1       | 28 E                                 |     |                               |

#### 3999 Sets Memory Holes:

Record the latest 3999 sets if processing holes, allow user to check the failure and then restart.



#### Visual parameter setting:

different wire diameters and types.



#### 100 sets NC Program **Memory:**

Record the latest 100 sets NC programs, let the operator knows the processing whether be finished based on the board information.



- Multi-cavity threading

**Monitoring Screen:** 

AWT Device



## **CHMER BUILT CNC CONTROLLER**

## /// W5F Controller Features

- All Software and Hardware are with full authorized. (Copyright Reserved by CHMER)
- ◆ IPC 586 Mother Board , Compatible Intel or similar CPU .
- ◆ DRAM 64M bytes
- ◆ High Capacity storage device CF card 128M bytes .
- ◆ Touch Screen or Optical Mouse Support (OPT)
- ◆ Synchronized 6th Axis (B Axis) Support (OPT) . Indexing and "Turn & Burn".
- All software functions and controller are fully compatible with FANUC™ post processor in CAM software.



M N O P Q R S T U V W [,

X Y Z 1,

Friendly User Interface and Operate Console.

## Remote Monitoring WEB page to monitor Functions (PC)



■ Team-Viewer<sup>TM</sup> (A Pay Software, not included)





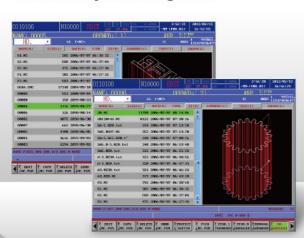


CHMER

 Remote Control (Through illegal purchase software "Team-viewer") for real-time monitoring & operate machine.

## //// Software Functions

**User-Friendly File Management** 



**EDM Technology Database** 



3D Graphic Simulation + NC path Info.



**NC Register** 



**Graphic Manual Function** 





System Device Management+ Optimum system parameter

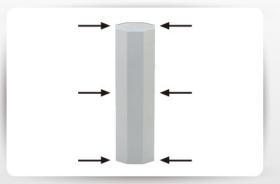
Functions

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|-----------------------|----------------------|------------------------|-------------------------------|--------------------------|------------------------|-----------------|-----------|
|                       | SYSTEM               | DEVICE IN              | ORMATION                      |                          |                        |                 |           |
| DEVICE NAME           | USE COUNT            | TILLE COURL            | CRESET SATES                  | 18x 25x 58x              | 75× 100×1              |                 |           |
| PERSIZING PLATE       | 8:00:00<br>8.00c     | 368 189 88             | 23147157                      |                          |                        | 19:26           | 2012/02/1 |
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| MARCING OF REAR HURE  | 1128157<br>8.37x     | 358188188              | 2889/89/14<br>21:85:58        |                          |                        | CHEMIN          | _         |
| COMPOCITIVITY PROBE   | 221 361 26<br>6. 25x | 358:88:88              | 28/5/12/23                    |                          |                        | VER US).<br>2.7 |           |
| ON RESIM              | 8:00:00<br>8:00x     | 72:60:60               | 2867/82/83<br>23128:54        |                          |                        | CINEN           |           |
| WIT HEATER            | 8:81:18<br>13.98x    | 8: 18: 66              | 2888/88/23<br>86:86:57        |                          |                        | els.            | HEN, INTH |
| MFER FILTER           | 60:20:42<br>61.44x   | 144:00:00              | 2889/89/14<br>21:06:01        |                          |                        | MAGES P         | ATH       |
| HEE                   | 1876.n<br>9.28x      | 3.29800<br>1188/8.26nm | 29879/89/14<br>21:86:81       |                          |                        | DENGES P        | HIS       |
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| 90.0K/ 50.0K          | OFF 0.0              | C/22.0°180             | H 0.0°C                       |                          |                        | AER ROS         |           |
| SVICE LIFE TIMES      |                      |                        |                               |                          | ESSMEET 4)             | 18/5/81/8       |           |
|                       |                      | -                      | 100E 300 a                    | - BEEF &                 |                        | BIT. WI         | E         |
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F MONE F SSWERN F F SSM. F 1 LINE 2 N.COSE 5 4 SKIN C **Advance Application** V MEH. F MEH. F MEH. F MEH. F MEH. F COMMER F MEH. F MEH. F MEH. F FEGER F DATE F DATE



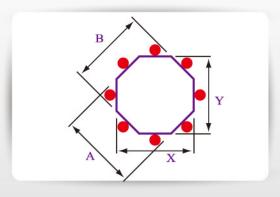
## //// Straightness Accuracy



#### **Straightness**

Workpiece: SKD-11 Thickness: 30 mm Wire diameter: Ø0.2mm No. of cut: 3 cuts

Accuracy: 2 µm

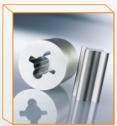


## **Measurement figure**

Marked red color means the measured points.

| Accuracy | X     | Α     | Υ     | В     | Error |
|----------|-------|-------|-------|-------|-------|
| Up       | 9.999 | 9.999 | 9.999 | 9.999 | 0μ    |
| Mid.     | 9.997 | 9.999 | 9.999 | 9.999 | 2μ    |
| Dn.      | 9.999 | 9.999 | 9.999 | 9.999 | 0μ    |
| Error    | 0.002 | 0     | 0     | 0     |       |

## /// Sample Illustration



Job Material: SKD-11 Job Thickness: 30 mm Wire diameter: Ø0.20 mm Number Of Cut: 1+ 2 Skims Work Hour: 1 Hour 10 Mins Accuracy: 3µm

Surface Roughness: Ra 0.55~0.58µm



Job Material: SKD-11 Job Thickness [Punch]: 50 mm Job Thickness [Die]: 30 mm Wire diameter: Ø0.20 mm Number Of Cut: 1+ 2 Skims Work Hour: 4 Hours 00 Mins

Accuracy: 3µm

Surface Roughness: Ra 0.58~0.63µm



Job Material: SKD-11 Job Thickness: 25 mm Wire diameter: Ø0.20 mm Number Of Cut: 1+ 2 Skims Work Hour: 1 Hour 50 Mins Accuracy: ±3µm

Surface Roughness: Ra 0.55~0.58µm



Job Material: SKD-11 Job Thickness[Punch]: 50mm Job Thickness[Die]: 20mm Number Of Cut: 1+2 Skims

Surface Roughness: Ra 0.58~0.63µm



Job Material: SKD-11 Job Thickness: 17 mm Wire diameter: Ø0.15 mm Number Of Cut: 1+ 2 Skims Work Hour: 1 Hour 50 Mins Accuracy: ±3µm

Surface Roughness: Ra 0.55~0.58µm

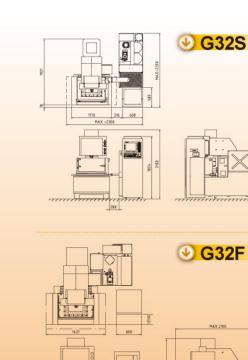


#### **PCD** formed milling cutters

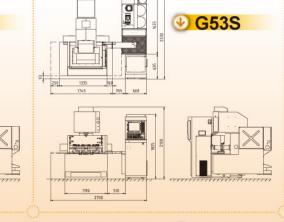
Job Material: PCD Job Thickness: 2.5 mm Wire diameter: Ø0.20 mm Feed rate: 2.0 mm/min

## **G Series Floor Layout**

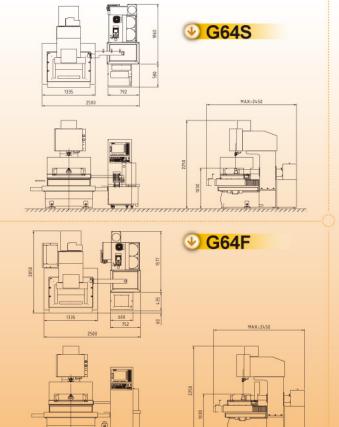
**9** G32S

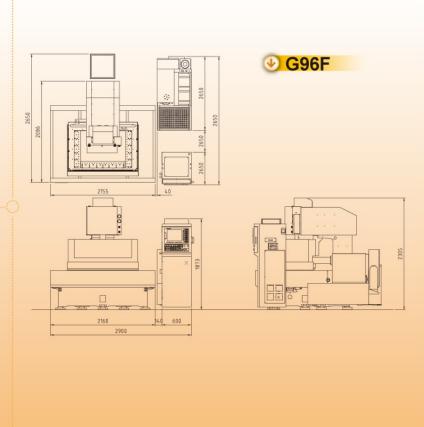














#### **MACHINE SPECIFICATIONS**

| Machine Body Model                            | G32F/S                 | G43F/S                 | G53F/S                 | G64F/S                | G96F                  |
|---|------------------------|------------------------|------------------------|-----------------------|-----------------------|
| X , Y axis travel (mm)                        | 360x250                | 400x300                | 500x300                | 600x400               | 900x600               |
| U,V,Z axis travel (mm)                        | 60x60x220              | 60x60x220              | 60x60x220              | 100x100x300           | 100x100x300           |
| Max.size of working piece (WxDxH mm)          | 725x560x215            | 725x600x215            | 825x600x215            | 910x700x295           | 1300x950x295          |
| Max. weight of working piece (kg)             | 300                    | 500 / 350              | 550 / 400              | 600 / 450             | 1500                  |
| XY feed rate (mm/min)                         | Max. 800               | Max. 800               | Max. 800               | Max. 800              | Max. 800              |
| Motor system (axis)                           | AC Servo Motor         | AC Servo Motor         | AC Servo Motor         | AC Servo Motor        | AC Servo Motor        |
| Wire diameter range (mm)                      | Ø0.15~0.3 (Ø0.25)      | Ø0.15~0.3 (Ø0.25)      | Ø0.15~0.3 (Ø0.25)      | Ø0.15~0.3 (Ø0.25)     | Ø0.15~0.3 (Ø0.25)     |
| Max.wire feed rate (mm/sec)                   | 300                    | 300                    | 300                    | 300                   | 300                   |
| Wire tension (gf)                             | 300~2500               | 300~2500               | 300~2500               | 300~2500              | 300~2500              |
| Max. taper angle (°)                          | ±14.5°/80 (wide-angled | ±14.5°/80 (wide-angled | ±14.5°/80 (wide-angled | ±21°/100 (wide-angled | ±21°/100 (wide-angled |
| workpiece thickness(mm)                       | nozzle, DA+DB=15mm)    | nozzle, DA+DB=15mm)    | nozzle, DA+DB=15mm)    | nozzle, DA+DB=15mm)   | nozzle, DA+DB=15mm)   |
| Outside dimension (WxDxH mm)                  | 2200x2100x2100 /       | 2200x2130x2130 /       | 2290x2130x2130 /       | 2500x2450x2250 /      | 2900x2650x2305        |
|   | 2300x2300x2100         | 2200x2265x2130         | 2290x2270x2130         | 2500x2450x2250        | 29008205082505        |
| N.W (including power and coolant system) (kg) | 2300 / 2375            | 2575 / 2800            | 2800 / 3195            | 3200 / 3595           | 6300                  |
| Coolant tank system (L)                       | 300/590                | 340 / 650              | 340 / 650              | 340 / 760             | 650                   |

| Machine Body Model                            | RX853F/S              | RX1063F/S             | RX1065F/S             | RX1283F/S             |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| X , Y axis travel (mm)                        | 800x500               | 1000x600              | 1000x600              | 1200x800              |
| U,V,Z axis travel (mm)                        | 150x150x300           | 150x150x300           | 160x160x500           | 120x120x300           |
| Max.size of working piece (WxDxH mm)          | 1210x800x295          | 1430x900x295          | 1240x900x495          | 1600x1100x295         |
| Max. weight of working piece (kg)             | 2000/1000             | 3000/1500             | 5000/3000             | 6000/4000             |
| XY feed rate (mm/min)                         | Max.800               | Max.800               | Max.800               | Max.800               |
| Motor system (axis)                           | AC Servo Motor        | AC Servo Motor        | AC Servo Motor        | AC Servo Motor        |
| Wire diameter range (mm)                      | Ø0.15~0.3(Ø0.25)      | Ø0.15~0.3(Ø0.25)      | Ø0.15~0.3(Ø0.25)      | Ø0.15~0.3(Ø0.25)      |
| Max.wire feed rate (mm/sec)                   | 300                   | 300                   | 300                   | 300                   |
| Wire tension (gf)                             | 300-2500              | 300-2500              | 300-2500              | 300-2500              |
| Max. taper angle (°)                          | ±21°/140 (wide-angled | ±21°/140 (wide-angled | ±21°/180 (wide-angled | ±21°/130 (wide-angled |
| workpiece thickness(mm)                       | nozzle, DA+DB=15mm)   | nozzle, DA+DB=15mm)   | nozzle, DA+DB=15mm)   | nozzle, DA+DB=15mm)   |
| Outside dimension (WxDxH mm)                  | 2400x2800x2350 /      | 2700x3000x2200 /      | 3200x3600x2800 /      | 4250x4100x2300 /      |
|   | 3150x3500x2350        | 4000x4000x2200        | 4000x3600x2800        | 4350x4100x2300        |
| N.W (including power and coolant system) (kg) | 5460/5535             | 6500/7100             | 7500/7600             | 14500/15000           |
| Coolant tank system (L)                       | 340/1370              | 650/2000              | 650/2400              | 760/3000              |

- Spefications subject to change based on R&D results without prior notice.
- Remark: In submerged condition, maximum height of work-piece recommended is Z stroke minus 45mm.

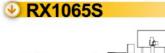
## **RX Series Floor Layout**





# **W RX1063S** RX1063F

#### STANDARD / OPTIONAL ACCESSORIES Standard Optional O None -SPECIFICATION AMOUNT ITEMS G32 G43 G53 G64 G96F RX853 F/S RX1063 RX1065 RX1283 ● / **S**-3 pcs 2 pcs Paper Filter \_ \_ \_ \_ \_ \_ 4 pcs \_ • • \_ \_ • 6 pcs UPPER / LOWER Diamond Guides 0.26mm • • 2 pcs • • • UPPER / LOWER Flushing Nozzles • 2 pcs • **Energizing Carbides** • • 2 pcs Diamond Guide Remove Jig • • • • • • • 1 pc Ø0.25mmx5kgs • • • Brass Wire 1 roll Tools . • • • 1 set AC power • • Alignment Jig • • • • • • 1 pc Flushing • 3L Ion Exchange Resins • • \_ • \_ \_ 6L • Submerged 12L Swinging panel 0 0 0 0 • • • 0 • 2-in-1 Transformer +AVR 0 0 0 0 0 0 0 0 0 Auto Data Recovery after Blackout • • • • • • • Auto Wire Threading (AWT) 0 0 0 0 0 0 0 0 0 30kgs Wire feeder 0 0 0 0 0 0 0 0 0 Wire chopper 30kgs 0 0 0 0 0 0 0 0 0 Z axis travel 400MM \_\_ 0 0 0



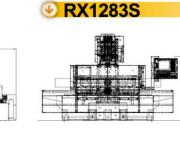
Water chiller

DC Invert Chiller



Flushing

Submerged



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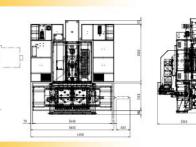
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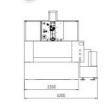
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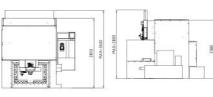
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1T

2T

1T

2T

3T

2T

1 set

1 set

1 set

1 set

1 set

1 set

## RX1283F



