



#636-7 Na-dong, Ezen-Mecazone, 117 Hwanggeum-ro,  
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YOUGAR M&T INC.



# Small-Hole EDM Drilling Machine

## **YGS-43C** **Head Moving Type**



*\* The above is made under CE Standard which means the appearance of your order would be different with it.*



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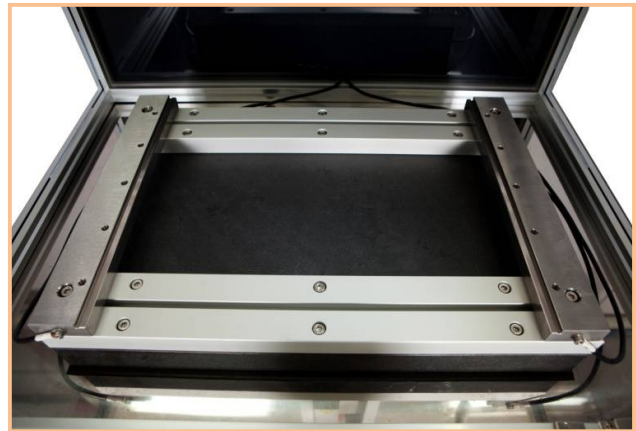


### *The Controller with New Appearance & Features Upgraded!*

- **Industrial Windows PC Adopted**
  - ⇒ User friendly & Large 17" Touch screen
  - ⇒ SSD Disk offering Faster and Stable of Reading Speed
- **Electrode Cutting Data Storage (E-Pack)**
- **Long Life Span**
- **Remote Access Service by On-Line**
  - ⇒ Swift Maintenance Service & Software Update through "TeamViewer" by our engineer
- **More Stable Control Body**

### *Work Table*

- **Granite Work Table**
  - ⇒ Stable base
  - ⇒ Maximize Precision
  - ⇒ No Corrosion Issue
  - ⇒ Excellent Electrical Isolator
- **Stainless & Aluminum Rail System**
  - ⇒ Enables easy fixing of work piece without extra fixturing(JIG)



### *Head Moving!*

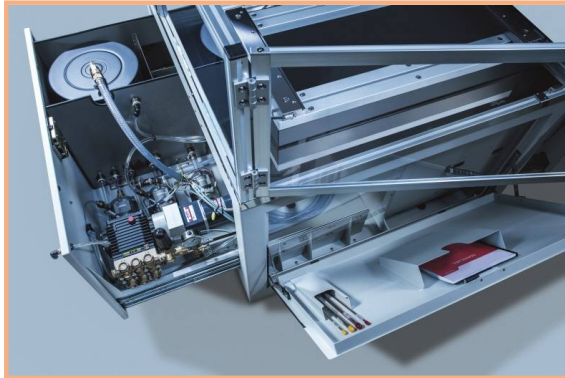
- **Head Moving Mechanism**
  - ⇒ Stable & Solid Work Table
  - ⇒ Work Pieces available up to "500 kg"
- **Precise and Fine Drilling**



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**Compact Design!**

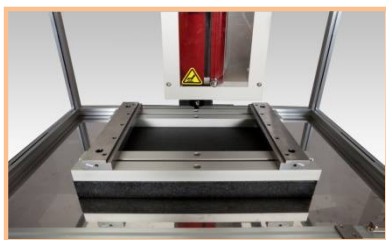


- **Filtration Tank with Resin(DI) Placed Inside**
  - ⇒ Minimizes shop floor footprint
  - ⇒ Eliminates need to purchase additional filtration units
- **Dual-Side Cabinet Design**
  - ⇒ Internal plumbing completely separated from electrical components for Safety
  - ⇒ Enough Extra Storage for Manual Book & Electrode tubes

**AEC**  
*(Automatic Electrode Changer)*

- Electrode Size for Changer: **0.3mm - 3.0mm**
- Number of Electrodes changeable: 20ea
- AEC equipped with Spindle Head
  - ⇒ Minimum Travel Distance
- **"Swift"** and **"Precise"** Tool change

*"With AEC Type" and "Without AEC type" are available.*



**Perfect Details!**

- Latest machine design with **Exquisite Details**  
 But **Solid** Machine Mechanism





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**Machine & Software Features:**

|  |   |
|--|---|
| YGS AEC System                                   | Automatic Electrode Changer: 20EA (range: $\phi$ 0.3 ~ 3.0)   |
| Stepper Motor                                    | Excellent Stability and High Precision Drilling   |
| Precision Ball Screw                             | Precision Ball Screw controls up to 1 $\mu$ m Purse and enables High Speed Processing & Precise Working   |
| LM Guides in all 4 axis (X, Y, Z, W)             | Heavy Weight Handling & Extending Machine's Life Span   |
| Granite Work Table                               | Solid Granite Work Table for stable drilling process & electrical isolator                                |
| Rail JIG System                                  | Rail Jig System specially equipped enables Easy Handling of Work Pieces! (made of Stainless and Aluminum) |
| Internal Water Tank                              | Brilliant Choice for small Space & Clean and Compact Appearance   |
| Waste Water Filtering System                     | Offering optimal Water Condition for Precise and Stable Drilling Result                                   |
| Resin Exchange System                            | Resin Exchange System with Ion Quality Check Sensor keeps the Water in Optimal Condition for Drilling     |
| Multi-lingual Control System                     | Multi-lingual & User-friendly Guidance system for easy learning & operation                               |
| PC-Base Control System                           | Ensures High Stability & Reliability and Easy Operation   |
| Blind Hole Function                              | NC-Code enables Drilling Holes with different Depths  |
| Automatic Functions                              | Automatic Edge Positioning & Centering  |
| NC Program, G Code and DXF file Reading Function |   |
| Network Connected                                | Easy & Swift Software update and maintenance service through Remote Access, Team viewer                   |
| Work lamp  | LED work lamp   |

**Basic Package Tool Box:**

- Tool Box
- Neuron Bearing & Rubber O-Ring
- 2 Ceramic Guides & 2 Packs of 20 Electrodes (Brass & Copper)
- 1 pc of Electrode Holder
- 2 pcs of Standard Filter
- Operating & Maintenance Manual Book



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### Specification

|                                      |  |
|--------------------------------------|--|
| Work table size (mm)                 | 920(width) x 680 (Depth)                         |
| X/Y/Z/W travel (mm)                  | 450 x 300 x 400 x 345                            |
| Range of Electrode Diameter          | φ 0.1-3.0 mm                                     |
| MAX. Length of Electrode             | 400 mm   |
| MAX. Height of Work Piece            | 350 mm   |
| MAX. Weight of Work Piece            | 500 kg   |
| Machine Net Weight                   | 1,140 kg   |
| Power Supply                         | Single phase 220V & 50/60HZ                      |
| PC                                   | Industrial PC, 17" Touch screen & Windows System |
| Machine Dimensions (mm)              | 1,567 x 1,345x 2,130                             |
| Installation Dimension(mm)           | 2,217 x 2,100 x 2,450                            |
| AEC<br>(Automatic Electrode Changer) | 20EA (range 0.3mm - 3.0mm)                       |

*\* Due to continuous Research and Development,  
all specifications and design characteristics are subject to be changed  
without a prior notice!*