



#636& 637, Na dong, Meca zone, Ezen Bldg, 2979, Hagun,
Yangchon, Gimpo, Gyeonggi, Korea
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YOUGAR M&T INC



YGS-75C (with AEC/AGC)

SMALL HOLE DRILLING EDM MACHINE



- Head movement type for stability
- Submerge type machine to get fine surface
- AEC(automatic electrode changer)
- AGC(automatic guide changer)
- Head tilting type machine



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MECHANICAL Features

- Granite Work table maximizes precision and excellent electrical isolator
- Stainless Steel Table.
- Dual-Side Cabinet Design completely separates internal plumbing from electrical components
- Closed Loop DI Filtration minimizes shop floor footprint and eliminates need to purchase additional filtration units
- AC SERVO Drive, N coder Assembled.
- Precision Liner Motion Guides Extended machine life with the use of THK linear motion guides on all 4 axes (X, Y, Z, W)
- High speed processing and precise working by applying THK Ball screw and Mitsutoyo Linear scale.
- THK Actuator for correct head tilting
- 8 Axis Motion Kit allows for multi-axis capabilities
- T Axis Tilt Head offers 4th axis capabilities
- Three-color signal tower.
Operation-Blue color, Stop-Yellow color, Error – red color.
- Touch Screen, keyboard, ball mouse assembled.

SYSTEM Features

- Windows Based Operating System allows for excellent controller flexibility with windows based security features
- 32 bit high Digital Signal Processor (DSP) Platform ensures system stability
- Program using G and M Code Programming; NC and DXF file reading function
- Initial Zero-Set offer automatic reset and depth calculation of Z axis
- Soft Start Feature reduces entry point burr formation



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- Electrode Setting Storage allows for user defined setting management and sample test bank
- Automatic Work Piece Pickup ID, OD, cylindrical and shapes
- Blind Hole Capabilities offer automatic checking of hole depth and return function
- Multiple Work Piece Setup allows for simultaneous programming and machining
- On Screen Editing offers point and click programming options with hole elimination
- Programmable “W” Axis for variable work piece height capability
- X/Y Mirror rotation, exchange and angling
- Programmable machining parameters absolute / Incremental input
- Dry Run Function with single block option
- Pitch error compensation
- Drilling timer both cycle time and program time
- Data input by USB, CD or Ethernet
- Automatic control tool changer and guide changer
- Support 6 Language (English, Korean, Chinese, Japanese, German, French)

SPECIFICATIONS

YGS-75CT		
MACHINE TRAVEL DIMENSIONS		
Travel of X,Y Axis	705 mm x 505 mm	27.75 in x 19.88 in
Travel of Z Axis	600 mm	23.68 in
Travel of W Axis	500 mm	19.68 in
Z Axis Rotation / Tilt Angle	+/- 45° / >90°	.001° Increments
Machine Net Weight	2300 kg	5060 lbs
Machine Footprint	3600 mm x 2000 mm x 2600 (H) Include filtration tank	141.70 in x 78.74 in x 102.36 (H) inch



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WORK PIECE SPECIFICATIONS		
Granite Table Size (W x D x H)	1200 mm x 1200 mm x 150 mm	47.24 in x 47.24 in x 5.90 in
Work Table Size (W x D x H)	950mm x 880 mm x 590mm	37.40 in x 34.64 in x 23.22 in
Work Table Inserts	(12) M8 threaded inserts	
Tooling System	Stainless Steel Table	
Max Height of Work Piece	350 mm (submerged type) 500mm (standard water type)	13.75 in (submerged type) 19.68 in (standard water type)
Max Weight of Work Piece	800 kg	1760 lbs
MACHINE TOOL SPECIFICATIONS		
Electrode Diameter (w/o AEC)	Ø 0.1 mm ~ Ø 3.0 mm	Ø .004 in ~ Ø .12 in
Electrode Diameter (w/ AEC)	Ø 0.3 mm ~ Ø 3.0 mm	Ø .012 in ~ Ø .12 in
Max Length of Electrode	600 mm	23.75 in
MACHINE GUIDES / MOTORS / DRIVES		
X, Y, W, Z Guides	TBI linear motion system	0.02
X, Y, W Servo / Drives	S. DC servo	
X, Y, W table feedback	DC Servo, N coder assembled	

ACCESSORIES

STANDARD	
Drill Chucks and Key	20 EA
Double Ended Ceramic Guides	10 EA

AUTOMATIC ELECTRODE CHANGER	
20 Electrode Positions	Rack Type
Range of Electrode Diameter / AEC Unit	Ø 0.3 mm ~ Ø 3.0 mm / Ø .008 in ~ Ø .118 in
Max Length of Electrode (mm)	600 mm / 23.62 in
Requires Compressed Air	70-90 PSI / Dry / 2.5 CFM / 5~6 kg

AUTOMATIC GUIDE CHANGER	
10 Guide Positions	Rack Type; 10 position
Range of Guide Diameter	Ø 0.3 mm ~ Ø 3.0 mm / Ø .012 in ~ Ø .118 in

STAINLESS STEEL SUBMERGED TANK AND RESERVOIR	
Work Tank Dimensions (W,D,H)	950mm x 880mm x 400mm / 37.40 in x 34.64in x 16 in
Reservoir Tank Capacity	350L



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2014 YEAR-PRICE

FOB BUSAN KOREA						
Model	Range	X	Y	Z	W	Unit price /set
YGS-75C (with AEC, AGC)	Dia. 0.1~3.0mm	705	505	600	500	US\$ 105,000.00

- **Payment term:** T/T 50% in advance & balance 50% before shipment (L/C at sight).
- **Delivery time:** 90days
- **Warraanty:** 1 YEAR warranty (For machine parts, consumables will not be covered)
- **Optional:** Custom-built machine price will be negotiated.

(Like without AEC / without AGC / without Head tilting / Spray type instead of submerged type etc.)

STANDARD Feactures and Accesories

- Windows 7 professional System
- Granite Work Table
- Rail System Work Piece Holder (Stainless and aluminum JIG holder)
- 17 inch LED screen with remote control box.
- Work Lamp
- Internal water tank and waste filtering system
- Ion quality check sensor with resin exchange system
- Tool Box with Tools (Include neuron bearing, rubber O-ring)
- 2 Ceramic Guides
- 2 Packs of 20 Electrodes (Brass & Copper)
- 1pcs of Electrode holder
- 2 pcs of standard filter
- Step-by-Step Operating/Maintenance Manual