



# ZNC SERIES



ZNC-12-001 Cat. 2012.08 Taiwan © Copyright reserved



A Division of **ABSOLUTE MACHINE TOOLS, INC.**

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# REACH A NEW HIGH!

## Discovering Beyond Imagination

Based on the continuous breakthrough concept and outstanding R&D capability, AccuteX Company always presents a new generation of EDM to meet the market requirements. AccuteX EDMs have won high reputation in domestic and overseas market.

Manufacturing of AccuteX EDM are conducted according to the company's quality assurance policy, and careful attention to every detail during manufacturing. All machines are rigorously inspected and tested to ensure its top performance, reliable quality & machining accuracy.

We always strive hard to pursue the higher EDM technology. Through the years of efforts in R&D, incorporating our extensive practical experience have earned us a public recognition and praise in global market. However, we are never satisfied with our achievement but keep moving ahead in R&D and manufacturing to create a higher level at performance and productivity in the EDM machining.

# ZNC SERIES ZNC E.D.M.

## DS-325 ZNC



### FUZZY

X: 300MM  
Y: 250MM  
Z: 150MM  
Z<sub>2</sub>: 200MM



- Lubricator ensure smooth movement & longer life.
- #68 lubricant oil for TURCITE-B WAYS.

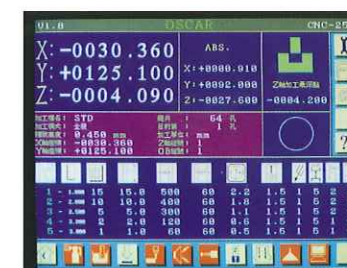
# ZNC SERIES ZNC E.D.M.

## DS-430 ZNC



### FUZZY

X: 400MM  
Y: 300MM  
Z: 180MM  
Z<sub>2</sub>: 250MM



- Conversational programming for easy learning and operation.
- Clear concise and well organized display.

# ZNC SERIES ZNC E.D.M.

## DS-430S ZNC



### FUZZY

X: 400MM  
Y: 300MM  
Z: 180MM  
Z2: 250MM

#### FEATURES OF THE MACHINE:

- Table is hardened.
- Constructed of high quality cast iron, quench treated.
- X, Y-axis high precision ballscrews.
- 32 bits industrial grade computer.
- Fast response MOSFET machining circuits.
- Auto fire extinguisher, fire sensor, arcing sensor, dielectric level & temperature sensor are standard functions.
- Interchangeable insert-board design.
- Clearly identified numbers for maximum convenience of maintenance.
- Memorized with 90 sets of teach-in parameters.
- Choice of sparking or non-sparking for Z-axis mold alignment.
- Low electrode wear, high efficiency, and extremely fine machining surface.
- 10 steps automatic parameters change for Z-axis.

# ZNC SERIES ZNC E.D.M.

## DS-550 ZNC



### FUZZY

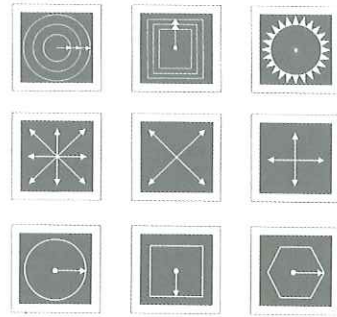
X: 500MM  
Y: 400MM  
Z: 200MM  
Z2: 300MM

- 3 axes digital readout with 0.005 resolution included.
- Automatic home point reset on Z-axis.
- Available on-link with orbit-cut system to enhance powerful functions.
- Employs the latest single screen window conversational operations.
- 100 sets of work files can be edited.
- 15" LCD color monitor.
- Intelligent arcing auto adjustment function: Intelligent arcing sensor & adjust parameters to ensure best performance.
- Digital dual voltage (high/low voltage) currents being synchronously discharged to ensure faster metal removal rate, low electrode wear and uniform surface finish.
- New "FUZZY" edition function: Just input: (1) material of electrode & workpiece (2) machining depth. (3) Maximum current & (4) Minimum current, then "FUZZY" will auto set the machining parameters for each step from roughing to final finishing.

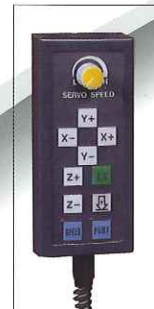
# ZNC SERIES ZNC E.D.M.



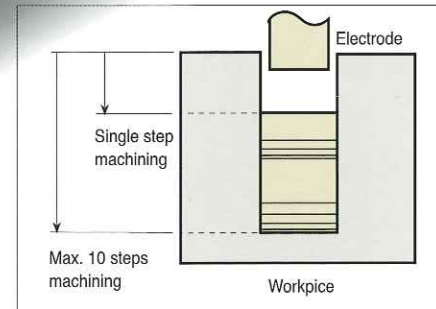
- Option: Can be on-link with ORBIT-CUT system.
- Orbiting function may work with Z axis 10 steps auto machining!



■ Orbiting modes. (XYZ, XY)



■ Remote control box: STANDARD



■ X,Y axes High precision ballscrews.



- Conversational programming for easy learning and operation.
- Clear concise and well organized display.

# ZNC SERIES ZNC E.D.M.

DS-755 ZNC

**FUZZY**

X: 700MM  
Y: 550MM  
Z: 250MM  
Z2:300MM



# ZNC SERIES SPECIFICATIONS MACHINE UNIT

| ITEM                                                      | MODEL | UNIT         | 325       | 430S      | 430       | 550       | 755       |
|-----------------------------------------------------------|-------|--------------|-----------|-----------|-----------|-----------|-----------|
| Work tank                                                 | (L)   | mm<br>(inch) | 850 (34)  | 970 (38)  | 970 (38)  | 1170 (46) | 1700 (67) |
|                                                           | (W)   |              | 530 (21)  | 550 (22)  | 550 (22)  | 690 (27)  | 1000 (39) |
|                                                           | (H)   |              | 340 (13)  | 350 (14)  | 350 (14)  | 425 (17)  | 550 (22)  |
| Work table                                                | (L)   | mm<br>(inch) | 600 (24)  | 650 (26)  | 650 (26)  | 800 (32)  | 1100 (43) |
|                                                           | (W)   |              | 300 (12)  | 350 (14)  | 350 (14)  | 450 (18)  | 600 (24)  |
| Table travel (X)                                          |       | mm<br>(inch) | 300 (12)  | 400 (16)  | 400 (16)  | 500 (20)  | 700 (28)  |
| Table travel (Y)                                          |       | mm<br>(inch) | 250 (10)  | 300 (12)  | 300 (12)  | 400 (16)  | 550 (22)  |
| Servo travel (Z)                                          |       | mm<br>(inch) | 150 (6)   | 180 (7)   | 180 (7)   | 200 (8)   | 250 (10)  |
| Workhead travel (Z2)                                      |       | mm<br>(inch) | 200 (8)   | 250 (10)  | 250 (10)  | 300 (12)  | 300 (12)  |
| Distance between<br>platen & table                        |       | mm<br>(inch) | 160 (6)   | 160 (6)   | 160 (6)   | 240 (9)   | 250 (11)  |
|                                                           |       |              | 510 (20)  | 590 (23)  | 590 (23)  | 740 (29)  | 835 (33)  |
| Max.electrode weight                                      |       | kgs          | 80        | 100       | 100       | 180       | 250       |
| Max.workpiece weight                                      |       | kgs          | 400       | 550       | 680       | 1350      | 2000      |
| Outside<br>dimensions                                     | (L)   | mm<br>(inch) | 1400 (55) | 1400 (55) | 1200 (47) | 1350 (53) | 2000 (79) |
|                                                           | (W)   |              | 1300 (51) | 1380 (54) | 1410 (56) | 1640 (65) | 2260 (89) |
|                                                           | (H)   |              | 1920 (76) | 2000 (79) | 2000 (79) | 2150 (85) | 2210 (87) |
| Outside<br>dimensions<br>(include<br>tank &<br>generator) | (L)   | mm<br>(inch) | 2430(96)  | 2430(96)  | 3425(135) | 3886(153) | 4417(174) |
|                                                           | (W)   |              | 1730(69)  | 1730(69)  | 1800(71)  | 1800(71)  | 2500(99)  |
|                                                           | (H)   |              | 2360(93)  | 2360(93)  | 2360(93)  | 2420(96)  | 2485(98)  |
| Weight                                                    |       | Kgs          | 980       | 1150      | 1280      | 1950      | 3100      |

● All specifications and designs are subject to change without notice. ● Larger models are available as requests.

## DIELECTRIC UNIT :

| TANK                                   |    | 325      | 430S     | 430       | 550       | 755       |
|----------------------------------------|----|----------|----------|-----------|-----------|-----------|
| Capacity                               | L  | 350      | 380      | 350       | 550       | 1250      |
| Weight                                 | kg | Built-in | Built-in | 160       | 200       | 400       |
| Outside dimensions<br>(LxWxH) mm(inch) | L  | Built-in | Built-in | 1010 (40) | 1200 (47) | 2120 (83) |
|                                        | W  |          |          | 760 (30)  | 1000 (39) | 1300 (51) |
|                                        | H  |          |          | 410 (16)  | 460 (18)  | 460 (18)  |

# ZNC SERIES SPECIFICATIONS MACHINE UNIT

## POWER SUPPLY UNIT :

| POWER SUPPLY UNIT            | UNIT                 | 60A                        | 90A                        | 120A                       | 180A                          |
|------------------------------|----------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| Max. machining current       | A                    | 60                         | 90                         | 120                        | 180                           |
| Max. power input             | KVA                  | 4.5                        | 8                          | 12                         | 18                            |
| Max. removal rate            | mm <sup>3</sup> /min | 430                        | 700                        | 900                        | 1,500                         |
| Min. electrode wear ratio    | %                    | 0.15                       | 0.15                       | 0.15                       | 0.15                          |
| Best surface roughness       | μm/ Ra               | 0.18                       | 0.18                       | 0.18                       | 0.18                          |
| Outside dimensions ( LxWxH ) | mm<br>(inch)         | 820x620x1700<br>(32x24x67) | 820x620x1700<br>(32x24x67) | 820x620x1700<br>(32x24x67) | 820x620x1700<br>(32x24x67) x2 |
| Weight                       | kgs                  | 320                        | 350                        | 380                        | 680                           |

● All specifications and designs are subject to change without notice. ● Larger models are available as requests.

## ZNC STANDARD ACCESSORIES :

|                                          |                            |
|------------------------------------------|----------------------------|
| X, Y-axes ballscrews.                    | Levelling pad.             |
| 15" LCD monitor.                         | Flushing nozzle            |
| Auto fire extinguisher.                  | Patented electrode holder. |
| Clamping plate.                          | Paper filter.              |
| Halogen work lamp.                       | Drill chuck.               |
| X, Y, Z-axes digital readout in 0.005mm. | Tool box.                  |

## ZNC OPTIONAL ACCESSORIES:

|                           |                               |
|---------------------------|-------------------------------|
| COC-280 orbit-cut system. | Paper filter.                 |
| Dielectric cooler.        | EZ-spark for harden workpiece |
| Permanent magnetic table. |                               |