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iSeries

Manual Small Hole EDM Drills





SPECIFICATIONS

MACHINE TRAVEL DIMENSIONS		
Travel of X,Y Axis	250 mm x 200 mm	10 x 8 inches
Travel of Z Axis	350 mm	14 inches
Travel of W Axis	200 mm	8 inches
Machine Net Weight	600 kg	1320 lbs.
Max Length of Electrode	400 mm	16 inches

WORK PIECE SPECIFICATIONS			
Machine Footprint	900 x 1000 x 2000 mm	35 x 39 x 79 inches	
Work Table Size (L x W)	450 x 210 mm	18 x 8.26 inches	
Work Table Inserts	M8 Threaded Inserts		
Tooling System	Stainless Steel Rail Guides		
Max Height of Work Piece	150 mm	6 inches	
Max Weight of Work Piece	500 kg	1000 lbs.	

MACHINE POWER SUPPLY SPECIFICATIONS		
Electrode Diameter	Ø 0.2 mm ~ Ø 3.0 mm	Ø .008 ~ Ø .118 inches
Switching	High current FET	
Output Amperage Mean / Peak	Max 30A	
Power Rating	220V / 3.5KVA	
Input Power	3 Phase, 220V, 50 ~ 60Hz	
Voltage Setting	3 step	
Amperage Setting	7 step	
Capacitors	5 step	
On-Time Setting	30 step	
Off-Time Setting	15 step	

ACCESSORIES
Amperage power booster (50A to 75A)
28pc guide/seal set (0.30-3.00mm)
3mm - 6mm Spindle Tooling Set (larger electrode capacity)
Work height riser (100mm)
Work height riser (200mm)
Yukiwa JNC140R-AC5-10-EDW 1 Axis Indexer
Haas HA5C 1 Axis Indexer
Stainless Steel Sine Plate (for rotary mounting)



2000lbs

1000 lbs.

SPECIFICATIONS

Max Weight of Work Piece

Max Weight of Work Piece

MACHINE TRAVEL DIMENSIONS

Travel of X,Y Axis	400 mm x 300 mm	16.00 in x 12.00 in
Travel of Z Axis	350 mm	14.00 in
Travel of W Axis	350 mm	14.00 in
Machine Net Weight	1520 kg	3040 lbs
Machine Footprint	900 mm x 1000 mm x 2000 mm	35 in x 39 in x 79 in
WORK PIECE SPECIFICATIONS		
Work Table Size (L x W)	650 mm x 400 mm	26.50 in x 16.00 in
Work Table Inserts	M8 threaded inserts	
Tooling System	Stainless Steel Rail Guides	
Max Height of Work Piece		

MACHINE TOOL SPECIFICATIONS		
Electronic d'accepten	Ø 0.20 mm ~ 3.0 mm	.Ø .008 ~ .118
Electrode diameter	(6.0mm option)	(.236 option)
Max Length of Electrode	400 mm	15.75 in

1000kg

500 kg

MACHINE POWER SUPPLY SPECIFICATIONS		
Туре	Input power AC / discharge output DC	
Switching	High current FET	
Output Amperage Mean / Peak	Max 50A	
Power Rating	220V / 3.5KVA	
Input Power	3 Phase, 220V, 50~60Hz.	
Voltage Setting	3 step	
Amperage Setting	7 step	
Capacitors	5 step	
On-Time Setting	30 step	
Off-Time Setting	15 step	

Amperage power booster (50A to 75A) 28pc guide/seal set (0.30-3.00mm) 3mm - 6mm Spindle Tooling Set (larger electrode capacity) Work height riser (100mm) Work height riser (200mm) Yukiwa JNC140R-AC5-10-EDW 1 Axis Indexer Haas HA5C 1 Axis Indexer Stainless Steel Sine Plate (for rotary mounting)

ACCESSORIES



SPECIFICATIONS

MACHINE TRAVEL DIMENSIONS			
Travel of X,Y Axis	400 mm x 300 mm	16.00 in x 12.00 in	
Travel of Z Axis	350 mm	14.00 in	
Travel of W Axis	350 mm	14.00 in	
Travel of A Axis (Tilt Head)	+/- 45°		
Machine Net Weight	1520 kg	3040 lbs	
Machine Footprint	900 mm x 1000 mm x 2000 mm	35 in x 39 in x 79 in	
WORK PIECE SPECIFICATIONS			
Work Table Size (L x W)	650 mm x 400 mm	26.50 in x 16.00 in	
Work Table Inserts	M8 threaded inserts		
Tooling System	Stainless Steel Rail Guides		
Max Height of Work Piece	350 mm	14.00 in	
Max Weight of Work Piece	1000kg	2000lbs	
MACHINE TOOL SPECIFICATIONS			
Electrode diameter	Ø 0.20 mm ~ 3.0 mm	.Ø .008 ~ .118	
Electrode diameter	(6.0mm option)	(.236 option)	
Max Length of Electrode	400 mm	15.75 in	
MACHINE POWER SUPPLY SPECIF	ICATIONS		
Туре	Input power AC / discharge output DC		
Switching	High current FET		
Output Amperage Mean / Peak	Max 50A		
Power Rating	220V / 3.5KVA		
Input Power	3 Phase, 220V, 50~60Hz.		
Voltage Setting	3 step		
Amperage Setting	7 step		

30 step

15 step

ACCESSORIES
Amperage power booster (50A to 75A)
28pc guide/seal set (0.30-3.00mm)
3mm - 6mm Spindle Tooling Set (larger electrode capacity)
Work height riser (100mm)
Work height riser (200mm)
Yukiwa JNC140R-AC5-10-EDW 1 Axis Indexer
Haas HA5C 1 Axis Indexer
Stainless Steel Sine Plate (for rotary mounting)

On-Time Setting

Off-Time Setting



SPECIFICATIONS

MACHINE TRAVEL DIMENSIONS		
Travel of X,Y Axis	400 x 300 mm	15.75 x 11.75 inches
Travel of Z Axis	400 mm	15.75 inches
Travel of W Axis	400 mm	15.75 inches
Machine Net Weight	750 kg	1650 lbs.
Max Length of Electrode	400 mm	16 inches

WORK PIECE SPECIFICATIONS			
Machine Footprint	1500 x 1400 x 2000 mm	59 x 55 x 79 inches	
Work Table Size (L x W)	625 x 400 mm	21.50 x 13.75 inches	
Work Table Inserts	M8 threaded inserts		
Tooling System	Granite Work Surface / Stainl	Granite Work Surface / Stainless Steel Rail Guides	
Max Height of Work Piece	500 mm	20 inches	
Max Weight of Work Piece	200 kg	440 lbs.	

Electrode Diameter	Ø 0.1 mm ~ Ø 3.00 mm	Ø .004 in ~ Ø .118 inches
Switching	High current FET	Ø 304 III Ø 1110 IIICIICS
Output Amperage Mean / Peak	Max 30A	
Power Rating	220V / 3.5KVA	
Input Power	3 Phase, 220V, 50 ~ 60Hz.	
Voltage Setting	2 step	
Amperage Setting	15 step	
Capacitors	15 step	
On-Time Setting	30 step	
Off-Time Setting	30 step	

Servo Motors Automated Part Probing On Screen Programming X /Y Mirroring and Angle Comp Blind Hole Function Hole Tapping Function Closed Loop Feedback Corner, edge, inside and outside NC or DXF file importing via USB Axis/Angle Exchange Function Control Hole Depth to Within .004" M4 to M10 / 1/4-20 to 1/2-13

CNC CONTROL FEATURES

ACCESSORIES
10 Position Automatic Electrode Changer
20 Position Automatic Electrode Changer
5 Position Automatic Guide Changer
Amperage power booster (50A to 75A)
28pc guide/seal set (0.30-3.00mm)
3mm - 6mm Spindle Tooling Set (larger electrode capacity)
Work height riser (100mm)
Work height riser (200mm)
Yukiwa JNC140R-AC5-10-EDW 1 Axis Indexer
Haas HA5C 1 Axis Indexer
Stainless Steel Sine Plate (for rotary mounting)
1 Axis CNC Controlled Indexer (integrated)
2 Axis CNC Controlled Indexer (integrated)



23.75 in x 15.75 inches

SPECIFICATIONS

Travel of X,Y Axis

Power Rating

Input Power

Capacitors

Voltage Setting

Amperage Setting

On-Time Setting

Off-Time Setting

MACHINE TRAVEL DIMENSIONS

Travel of Z Axis	500 mm	19.75 inches		
Travel of W Axis	500 mm	19.75 inches		
Machine Net Weight	1250 kg	2500 lbs.		
Max Length of Electrode	400 mm	16. in		
WORK PIECE SPECIFICATIONS				
Machine Footprint	1700 x 1450 x 2200 mm	67 in x 57 in x 87 inches		
Work Table Size (L x W)	825 x 500 mm	32.50 in x 19.75 inches		
Work Table Inserts	M8 threaded inserts			
Tooling System	Grainte Work Surface / Stainless Stee	el Rail Guides		
Max Height of Work Piece	500 mm	20.00 inches		
Max Weight of Work Piece	750 kg	1500 lbs.		
MACHINE POWER SUPPLY SPECIFICATIONS				
Electrode Diameter	Ø 0.1 ~ Ø 3.00 mm	Ø .004 in ~ Ø .118 inches		
Switching	High current FET			
Output Amperage Mean / Peak	Max 30A			

600 x 400 mm

220V / 3.5KVA

2 step

15 step

15 step

30 step

30 step

3 Phase, 220V, 50~60Hz.

CNC CONTROL FEATURES
Servo Motors
Automated Part Probing
On Screen Programming
X /Y Mirroring and Angle Comp
Blind Hole Function
Hole Tapping Function
Closed Loop Feedback
Corner, edge, inside and outside
NC or DXF file importing via USB
Axis/Angle Exchange Function
Control Hole Depth to Within .004"
M4 to M10 / 1/4-20 to 1/2-13

ACCESSORIES
10 Position Automatic Electrode Changer
20 Position Automatic Electrode Changer
5 Position Automatic Guide Changer
Amperage power booster (50A to 75A)
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Stainless Steel Sine Plate (for rotary mounting)
1 Axis CNC Controlled Indexer (integrated)
2 Axis CNC Controlled Indexer (integrated)



In today's ever-changing business environment, evolving customer demands don't just require new equipment – they require innovation. That's why customers worldwide choose Titan International Sales for full-featured, high-performance EDM drill machines.

We deliver high-quality, cutting-edge EDM machines, with on-site qualified service, immediate OEM replacement parts, turnkey application support, and thorough training.

The depth of our EDM drill product line is the direct result of an established history and years of experience in EDM drilling technology.

Notes:	

Titan International Sales offers two high-quality lines of Small Hole EDM Drill Machines, including turnkey solutions for any project – no matter the size.

Our commitment to continuous technological improvement gives our customers an advantage over their competitors when they partner with us for their business needs.

See our full line of products and services at titanedm.com



34 Wedmore Rd., Fairport NY 14654 P: 585.750.7624

> sales@titanedm.com www.titanedm.com