

GENERAL CATALOG

Innovative Company of KOREA
SD MECATEC



Horizontal Drilling & Tapping Machine

HD1000A ver.2025

Patent

NO. 10-1715643 (KR)

NO. 10-2302762 (KR)

Design Patent

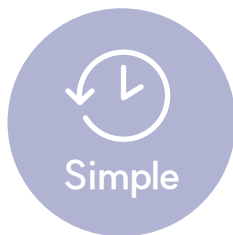
NO. 30-0898279 (KR)

Effortlessly Handle Challenging Drilling & Tapping Operations with HD1000A.
Servo Motors Automate X/Z Axis Positioning, While Manual Drilling & Tapping Eliminates the Need for CAM Programming, Enabling Intuitive & Immediate Operation, Even for Beginners.

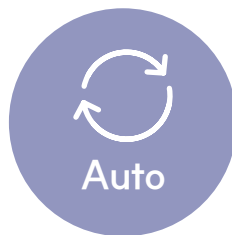


Advantages of HD1000A

NO! Angle Head — Difficult & Time-Consuming to Install/Replace
YES! In-House Processing — No Outsourcing/Lower Costs



Drilling & Tapping Operations
without Tool Change



Servo Motors Enable Rapid
& Smooth X/Z Axis Movement
to the Machining Point



Achieves Cost Savings
& Reduced Production Times
without CNC Machining



No CAM Program Needed
— Input Position Dimensions
for Simple Operation by Beginners



Safe & Reliable Quality
with CE & KCs Certifications

Machining Area

Minimize Installation Space While Allowing Left/Right Origin Setting for a Wider Area

X/Z Axis Travel

To prevent the spindle head from tilting backward during drilling, three LM Guide are arranged at right angles.

Stroke(X*Z)

1,000 X 100mm

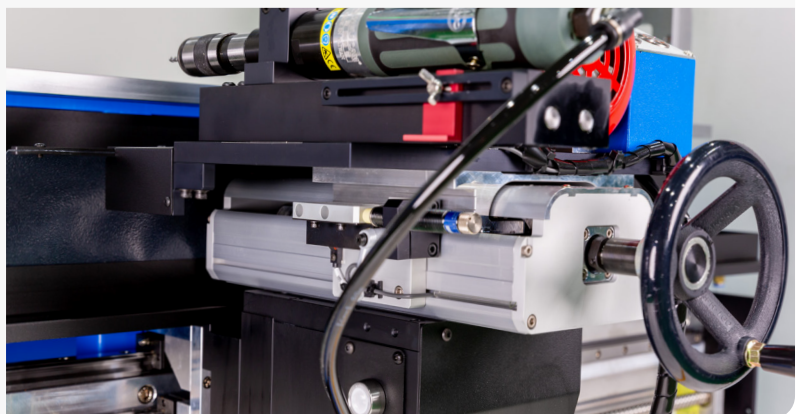


Y-Axis Travel

High-precision linearity is ensured with a high-rigidity Cartesian robot, featuring an increased ball screw lead for improved efficiency and fewer rotations.

Stroke(Y)

150mm

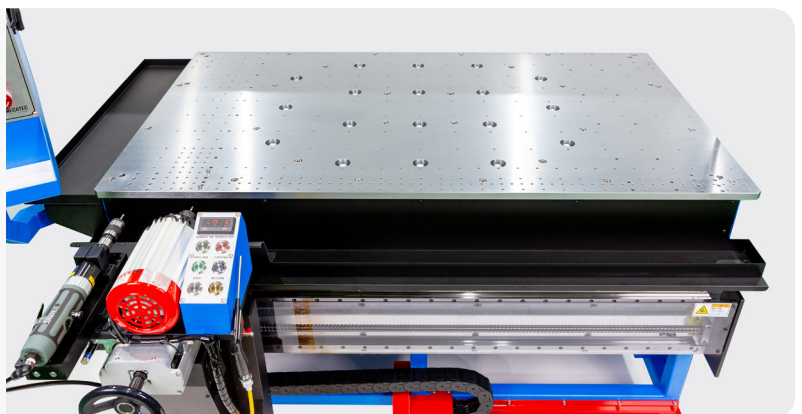


Work Table

The steel undergoes precision grinding to deliver superior flatness.

Dimensions(X*Y)

1,630 X 960mm

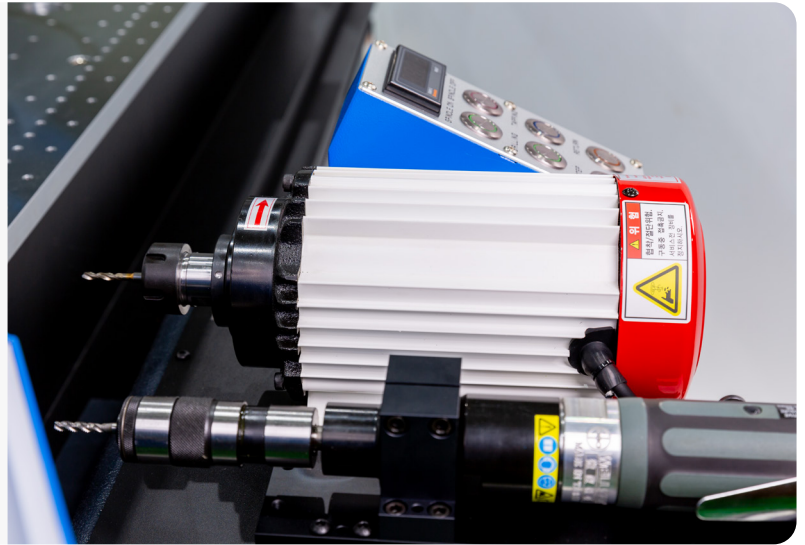


Spindle Motor

Jointly developed the spindle motor with a Korean company, ensuring powerful performance and high concentricity.

Specifications

1.5kW(2HP)
2,400rpm
ER25(Φ16)



Ball Caster

Installed ball casters protect workpieces during the directional changes and movement of large plates.

Recommended Load Capacity

150kg



Touch Panel

Large touch panel enables convenient dimension input.

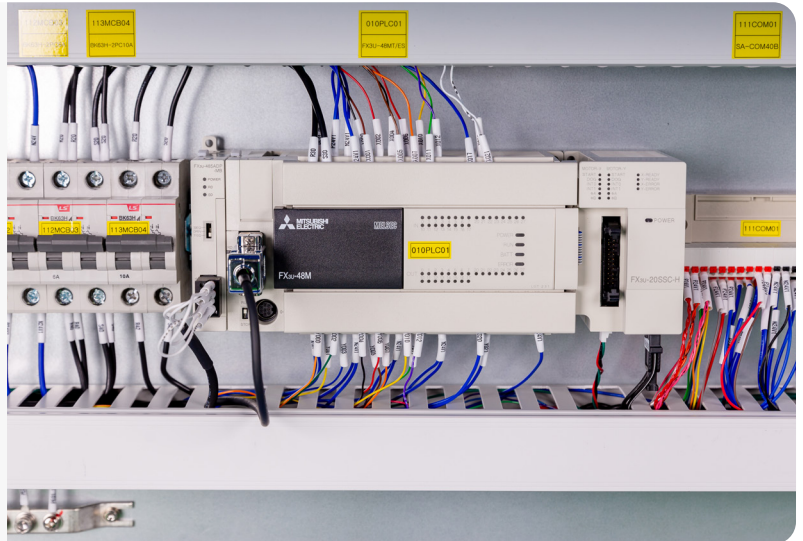
10" Touch Panel



PLC System

Deliver a dependable program by addressing minor faults and software issues.

Mitsubishi FX Series



Data Storage

Capable of storing up to 30 data entries, reducing the hassle of repeatedly entering dimensions for frequently processed workpieces.

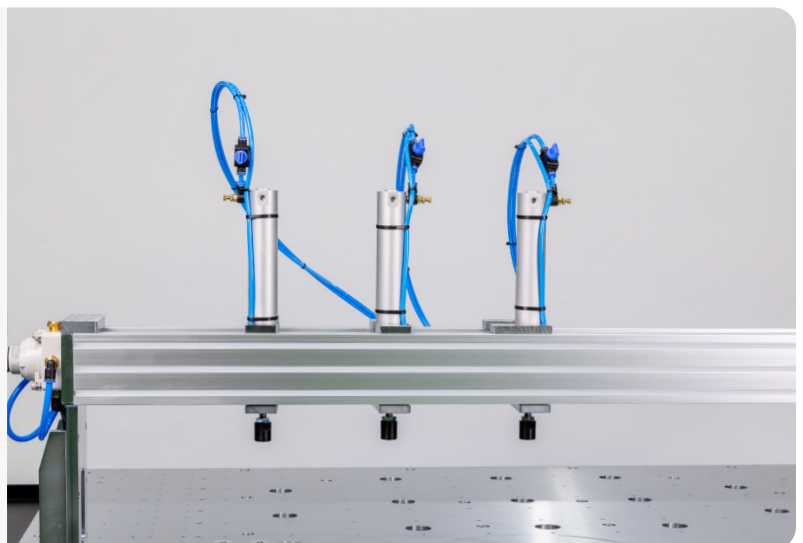
Storage of 30 Data Entries



Pneumatic Clamp

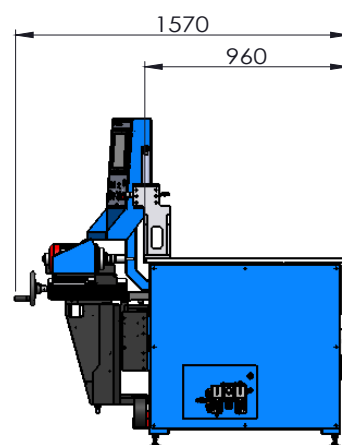
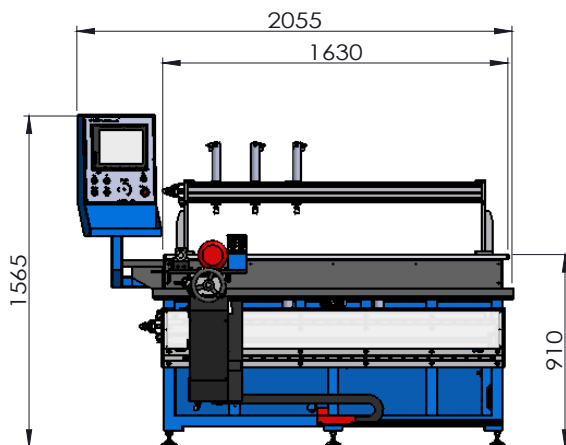
An optional pneumatic clamp unit is available for simplifying repetitive clamping tasks.

Optional



Specifications

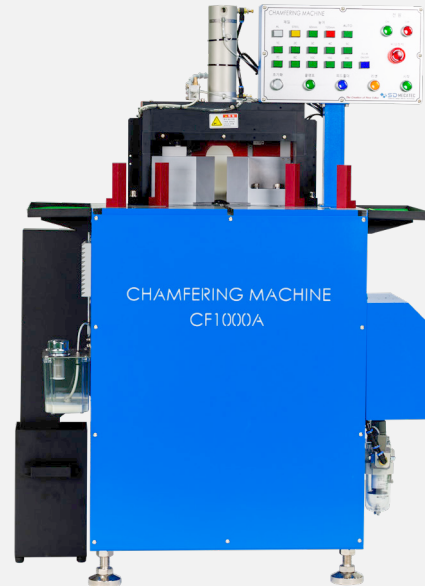
Category	Units	HD1000A
X-Axis Travel Distance	mm	1,000
Z-Axis Travel Distance	mm	100
Y-Axis Travel Distance	mm	150
X-Axis Work Table	mm	1,630
Y-Axis Work Table	mm	960
Maximum Load Capacity	kg	500
Spindle Motor Power	kW	1.5
Spindle Motor Speed	rpm	2,400
Collet Chuck		ER25
Max Chuck Size	φ	3~16
Air Tapping Tool Size	M	M3~M12
X-Axis Feed Speed	m/min	15
Y-Axis Feed Speed	m/min	8
Touch Panel	inch	10
Controller	Maker	MITSUBISHI FX SERIES
Power Consumption	kVA	2.8
Compressed Air	MPa	0.5~0.7
Machine Length	mm	2,100
Machine Width	mm	1,600
Machine Height	mm	1,600
Machine Weight	kg	700
Input Voltage	V	220V, 60Hz, 1Φ



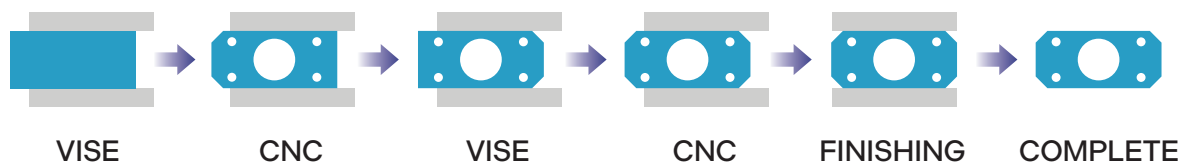
Chamfering Machine **CF1000A**

Patent NO. 10-2585170 (KR)
Design Patent NO. 30-1252349 (KR)

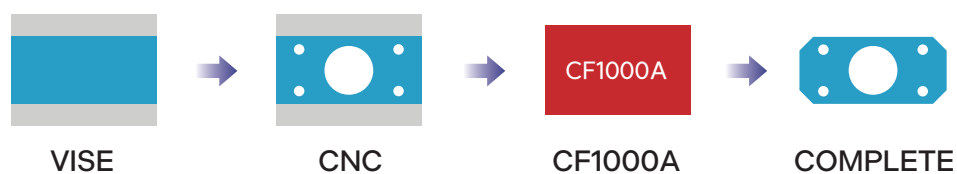
World's First Dedicated Chamfering Machines,
Designed to Reduce Routine Vise Operations
for Workpieces with Large Tolerances, Thereby
Shortening Production Time.



Benefits of **CF1000A**



Expected 50% Reduction
in Process Time

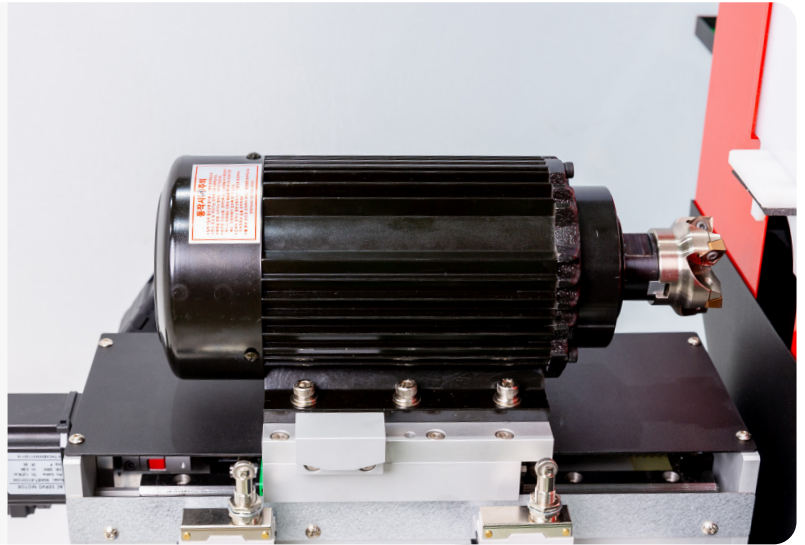


Spindle Motor

High-precision, powerful spindle motor co-developed with Korean company.

Specifications

2.2kW(3HP)
6,000rpm

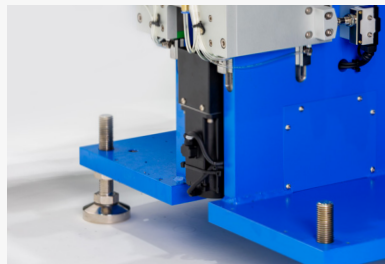


Y-Axis Travel

Dedicated chamfering travel axis developed utilizing years of accumulated Cartesian robot manufacturing technology, featuring high rigidity and precision.

Cutting Thickness

60 or 120mm



Simple Operation

Simply set the desired material, processing height and chamfering amount to complete the chamfering automatically.

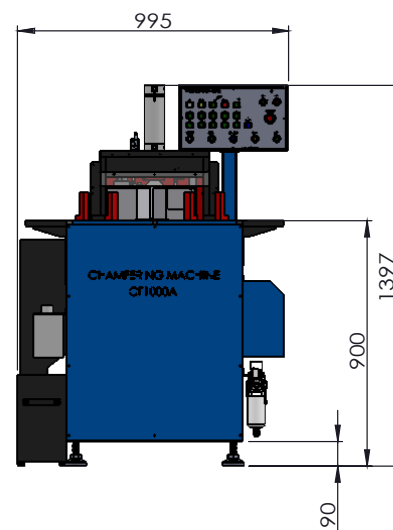
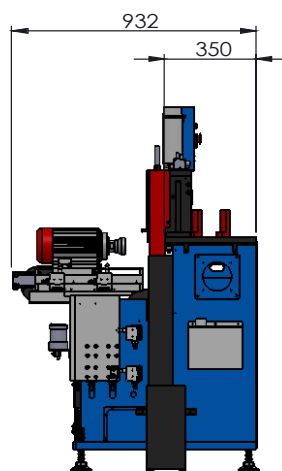
Chamfer Size

1~20C



Specifications

Category	Units	CF1000A
Chamfer Size	C	1~20
Z-Axis Travel Distance	mm	120
Y-Axis Travel Distance	mm	150
X-Axis Work Table	mm	650
Y-Axis Work Table	mm	350
Spindle Motor Power	kW	2.2
Spindle Motor Speed	rpm	6,000
Face Cutter	ϕ	63
Controller	Maker	LS XGB SERIES
Power Consumption	kVA	3.8
Compressed Air	MPa	0.5~0.7
Machine Length	mm	1,000
Machine Width	mm	950
Machine Height	mm	1,400
Machine Weight	kg	540
Input Voltage	V	220V, 60Hz, 1 ϕ



Linear Chamfering LC1000A

Patent NO.10-2690135 (KR)

World's First Chamfering Unit with End Mill – NO BURR!
Removed the Need for Additional Finishing Work And
Enhanced Productivity.



✓ Burr-Free Chamfering

No burr, one pass processing with patented end mill.



✓ Extended Tool Exchange Interval

Adjustment of the end mill position with dial in up to 22 steps significantly extends the tool change interval.



✓ User-Friendly Precision Control

Just a touch of one dial allows anyone to achieve precise chamfering.



✓ Chip-Free Chamfering

Prevents chip scattering and collects them in a container for a safe, clean work environment.



✓ Optimal Working Height

Ergonomic height enables comfortable seated work without any additional table.



✓ Automatic Cutting Fluid Supply (Optional)

Mist-form cutting fluid enhances machining quality and extends tool life.



Specifications

Category	Units	LC1000A	LC1000X
Work Table	mm	260	260
Chamfer Capacity	C	Up to 1.5	Up to 1.5
Working Angle	°(degree)	45	45
Motor Power	W	550	550
Motor Speed	rpm	4500	3500,4500,6000 3-Stage Var.
End Mill		SDEM-2401	SDEM-2401
Applicable Materials		STS, Steel, Aluminum, Resins, etc.	STS, Steel, Aluminum, Resins, etc.
Power Consumption	W	550	550
Unit Dimensions	mm	310 X 360 X 710	310 X 360 X 710
Unit Weight	kg	40	45
Input Voltage	V	220V, 60Hz, 1Φ	220V, 60Hz, 1Φ

Round Chamfering **RC1000A**

World's First Chamfering Unit with End Mill – NO BURR!
Removed the Need for Additional Finishing Work And
Enhanced Productivity.



✓ Chamfering with End Mill

World's first end mill technology enables chamfering of a wide range of materials.



✓ Burr-Free Chamfering

No burr, one pass processing with patented end mill.



✓ User-Friendly Precision Control

Just a touch of one dial allows anyone to achieve precise chamfering.



✓ Reliable Korean Unit

Unit developed and manufactured by Korean company, ensuring reliable performance.



✓ Simplified Tool Change

Tool change time reduced by over 50%, enhancing efficiency.



Specifications

Category	Units	RC1000A
Work Table	mm	230 X 180
Chamfer Capacity	C	Up to 1.0
Working Angle	°(degree)	45
Motor Power	W	400
Motor Speed	rpm	10,000
End Mill	SDRM-2402A	Aluminum, Resins, etc.
	SDRM-2402S	Steel, STS, etc.
Power Consumption	W	400
Unit Dimensions	mm	290 X 240 X 360
Unit Weight	kg	20
Compressed Air	MPa	0.5~0.7
Input Voltage	V	220V, 60Hz, 1Φ

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