

ADM

SERIES

5-axis Composite Material Machining Center



Aerospace Parts CFRP / GFRP Dedicated Machine

ADM is a 5-axis machining center to process composite materials with high speed, precision and automation.

ADM is aimed at processing materials such as Carbon Fiber Reinforced Polymer (CFRP), Fiberglass, Plastic and Aluminum.

- High Speed Spindle.
- Dual ATC Magazines.
- 5-Axis Simultaneous Machining.
- Ultra-Low Temperature Spiral Tube Cooler.
- Single Working Table / Dual Working Table.
- Dust Suction Device.

5-Axis
Machining



規格表 Specification

規格	Specification	單位	ADM-2638
X軸行程	X travel	mm	2,600
Y軸行程	Y travel	mm	3,800
Z軸行程	Z travel	mm	1,000
主軸鼻端至工作台面距離	Distance from spindle nose to work table	mm	150 - 1,150
雙立柱間距離(門寬)	Distance between columns (port width)	mm	4,900
工作台面積(長x寬x數量)	Table dimension (L x W x Number)	mm	2,500 x 1,500 x 2 pcs
工作台可移動距離	Table moving distance	mm	3,800
T型槽(尺寸x數量x間距)	Table t-slot (dimension x number x pitch)	mm	18 x 8 x 150
工作台最大載重	Max. table load	kg/m ²	3,000
主軸轉速	Spindle speed	rpm	24,000
主軸馬力(連續/30分鐘額定)	Spindle power (continuous/30 minute rated)	kW	15 / 18
主軸錐度	Spindle taper	-	HSK-A63
快速進給速率	Rapid traverse	mm/min	X,Y:40,000 Z:20,000
切削進給速率	Cutting feed rate	mm/min	20,000
X,Y,Z伺服馬達(功率/數量)	X,Y,Z axis servo motor (power/Q'ty)	kW	X:9.6/2(pcs) Y:3.5/2(pcs) Z:9.6/1(pcs)
刀庫規格	Magazine type	-	斗笠式 / Carousel tool
刀把規格	Tool taper	-	HSK-A63
刀庫容量	ATC capacity	pcs	16
刀具最大外徑(滿刀/鄰空刀)	Max. tool size (full tools/ next pockets empty)	mm	Ø80 / Ø150
刀具最大長度	Max. tool length	mm	300
最大刀具重量	Max. tool weight	kg	6
定位精度(VDI3441)	Positioning accuracy (VDI3441)	mm	X: P0.018 Y: P0.020 Z: P0.012
重現性精度(VDI3441)	Repeatability accuracy (VDI3441)	mm	X: Ps0.012 Y: Ps0.018 Z: Ps0.01
地板集塵進氣流量	Flow rate of ground suction device	m ³ /min	400
機頭吸塵進氣流量	Flow rate of spindle suction device	m ³ /min	15
電力需求	Electric power consumption	kVA	130
氣壓需求	Pneumatic input pressure	kg/cm ²	6
機械重量	Machine net weight	kg	30,000
占地面積(長x寬x高)	Floor space (L x W x H)	m	11 x 9.3 x 5.5

* X軸客製化
X travel customization

* 詳細資訊請參閱機台規格書
For details, please refer to Machine Specification.

* 本公司隨時進行研究改進的工作，因此保有更改設計、規格功能之權利。
The manufacture reserves the right to modify the design, specifications mechanisms, etc.

標準配件與功能

HEIDENHAIN TNC640控制器
24,000rpm HSK-A63主軸
雙工作台交換裝置
自動換刀裝置/雙刀庫(每刀庫16把刀)
主軸錐孔清潔吹氣
三軸潤滑油獨立收集裝置
中央集中自動進給潤滑裝置
落地移動式操作箱
分離式手搖輪
X軸全閉環光學尺, Y/Z軸絕對式位置檢出器
X/Y/Z軸行程極限硬體保護
集塵系統: 機頭吸塵裝置、地板集塵裝置
全密閉式防護鈹金
電氣箱配備熱冷氣機
主軸鬆刀開關
工作燈
程式結束及警示燈
RJ45網路傳輸
遠端監控軟體-標準版(不支援SIEMENS控制器)
M30自動斷電功能
Z軸斷電自動上拉功能
地基水平墊塊及基礎螺栓
調整用工具及工具箱
技術手冊(操作、保養手冊及電路圖)

Standard Accesories and Functions

HEIDENHAIN TNC640 controller
Spindle 24,000rpm with tool shank HSK-A63
2 Pallets changer
ATC/Double magazines (16 tools per magazine)
Air blast through spindle
Independent lubrication oil collector
Centralized auto lubrication system
Portable floor operation panel
Movable manual pulse generator
X axis linear scale feedback, YZ axis absolute pulse coder feedback
XYZ axis travel hard limits protection
Dust suction device: spindle and ground
Enclosed splash guard (with roof)
Air conditioner electrical cabinet
Tool clamping switch
Working lamp
Operation cycle finish and alarm light
RJ45 interface
Remote monitoring software-Standard (Not available for Siemens controller)
M30 auto power-off
Z axis auto pull with power-off
Foundation pads and bolts kits
Adjustment tool and tool kits
Technical manuals: Operation, maintenance manual and circuit diagram

選配附件與功能

SIEMENS 840D SL控制器
Y/Z軸全閉環光學尺
旋臂式操作箱
變壓器
變穩壓器一體
自動換刀裝置/雙刀庫(單一刀庫24把刀)
自動換刀裝置/雙刀庫(單一刀庫32把刀)
自動刀長量測系統
自動工件量測系統
真空吸盤裝置
雷射測距儀
超低溫冷風槍
操作側清潔水槍及空氣接口
遠端監控軟體-專業版(不支援SIEMENS控制器)

Optional Accesories and Functions

SIEMENS 840D SL controller
YZ linear scale feedback
Arm type operation panel
Transformer
Transformer + Voltage stabilizer
ATC/Double magazines (24 tools per magazine)
ATC/Double magazines (32 tools per magazine)
Auto tool length measurement
Auto workpiece measurement
Vacuum chuck
Laser positioning sensor
Ultra-low temperature spiral tube cooler
Wash gun and pneumatic interface
Remote monitoring software-Professional(Not available for Siemens controller)