



MOUS/MOUP SERIES

Fixed Crossrail High-Speed
Double Column Machining Center

GRUIIe/GNUe SERIES

Fixed Crossrail
Double Column Machining Center

Ningbo Dagang Production Base

Ningbo Yanshan Production Base

Dalian Production Base



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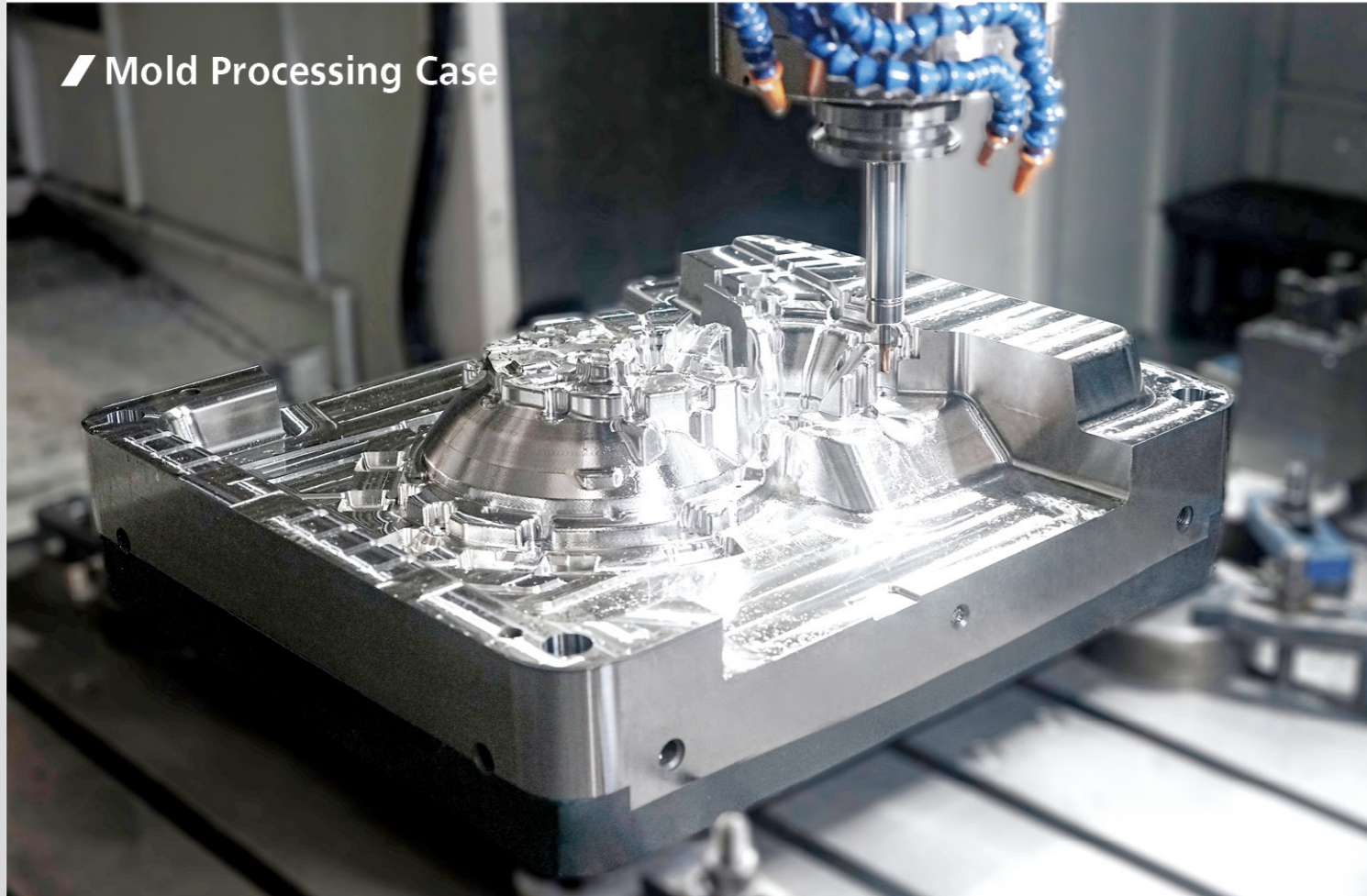
Website: www.hision.com.cn

Zipcode: 315800

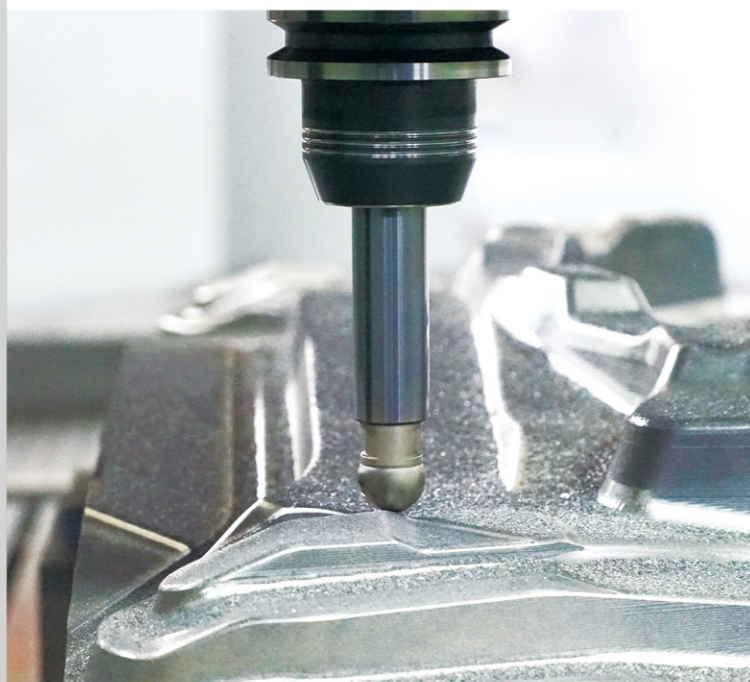


HIGH SPEED
HIGH EFFICIENCY
HIGH ACCURACY

/// Mold Processing Case



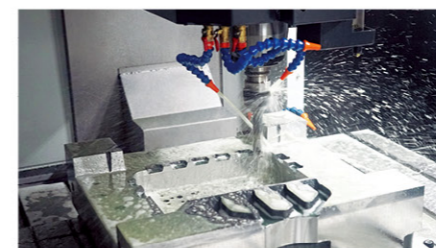
MOUS 13/16 series
MOUP 13/16 series



MOUS/MOUP series
Fixed Crossrail High-speed
Double Column Machining Center

The high-speed series adopts Hison's patented technology to combine high-end technology such as high dynamic response, ergonomics, energy saving and environmental protection to present a perfect high-speed cutting experience for users.

The product is suitable for processing in high hardness materials, non-ferrous metals, plastics and other fields. Widely used in high-end manufacturing industries such as mold, aerospace, rail transportation, automobiles, house appliances, and medical.



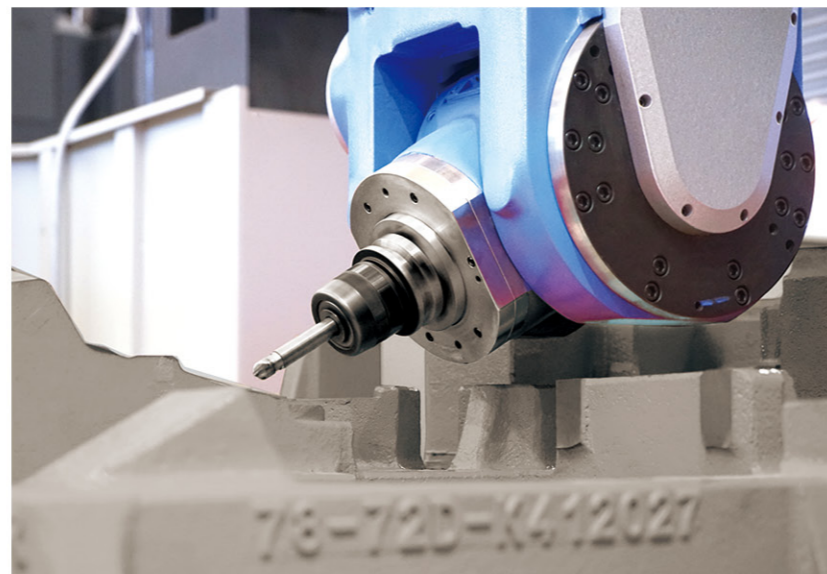
High Speed
High Efficiency
High Accuracy



GRUlle series
GNUe series

GRUlle/GNUe series Fixed Crossrail Double Column Machining Center

The GRUlle/GNUe fixed crossrail double column machining center inherits the high rigidity structure. The three-axis adopts linear guide structure, large-sized ram section, equipped with advanced high-torque built-in spindle, automatic milling head option, which makes processing more efficient, and environmentally friendly and energy-saving. Used in stamping die molds.



Main Technical Parameters

Items	Unit	MOUS13x8	MOUS13x16	MOUS13x21	MOUS16x20	MOUS16x25	MOUS16x30
> Machining Capacity							
X travel	mm	1300	1600	2000	2000	2500	3100
Y travel	mm	800	1300		1500		
Z travel	mm	700		800			
Distance between columns	mm	1380		1580			
Spindle nose to table surface	mm	150-850		200-1000			
> Table							
Table size	mm	1300x850	1300x1800	1300x2200	1500x2000	1500x2500	1500x3000
Max. table loading	t	1.5	4	5	6	8	10
T slot size		22x160x5		22x160x8		22x160x9	
> Feed rate							
Cutting feedrate (X/Y/Z)	m/min	20/20/20		16/20/20			
Rapid traverse (X/Y/Z)	m/min	20/24/24		18/24/24			
> Spindle							
Drive type		Built-in spindle					
Spindle speed	rpm	12000					
Spindle power(S1/S6)	Low speed	15/18.5					
	High speed	18.5/22					
Spindle torque(S1/S6)	Low speed	95.5/167					
	High speed	50.5/60					
Spindle taper		BT40					
Ram section	mm	350x350					
> Tool magazine(Optional)							
Tool magazine capacity	T	20/24					
Tool shank type		BT40					
Max. tool diameter(Adjacent Vacant)	mm	φ35(φ66)					
Max. tool length	mm	300					
Max. tool weight	kg	8					
> Other							
Power capacity	kVA	65					
Machine weight	t	12.5	16.5	19.5	20	23	26.5
Machine size(LxWxH)	cm	360x355x420	560x388x420	690x388x420	741x400x435	777x400x435	941x400x435

Standard configuration

- 1 Controller: MITSUBISHI M80 (MOUS13x8 M830)
- 2 HISION built-in spindle
- 3 Spindle oil chiller
- 4 Pneumatic,hydraulic and lubrication system
- 5 Full enclosure with top cover
- 6 Internal helix chip conveyor
- 7 Cutting cooling
- 8 3-color signal lamp, working light
- 9 Tool life management
- 10 SSS die mould function
- 11 Ethernet function
- 12 Original SD card 8G
- 13 Standard accessories
- 14 Common maintenance tools
- 15 External chain type chip conveyor

Option configuration

- 1 Controller:FANUC Oi
- 2 KSL24000rpm(HSK-A63)
- 3 KSL18000rpm(HSK-A63)
- 4 20/24T armless ATC(HSK-A63)
- 5 Coolant through spindle
- 6 Spindle ring spray
- 7 Linear scale
- 8 CNC rotary table(4th)
- 9 Air conditioner
- 10 Workpiece probe(2D)
- 11 Tool setter
- 12 Oil skimmer
- 13 Water gun
- 14 Oil mist collector
- 15 Cutting oil mist cooling system
- 16 Memory program capacity 2M
- 17 Data-sever
- 18 Dynamic graphical display function
- 19 Max. pre-reading blocks 400(Oi)
- 20 Air gun
- 21 16/24 armless ATC(BT-40)

Main Technical Parameters

Items	Unit	MOUP13X16	MOUP13X21	MOUP16X20	MOUP16X25	MOUP16X30
> Machining Capacity						
X travel	mm	1600	2000	2000	2500	3100
Y travel	mm	1300		1500		
Z travel	mm	700		800		
Distance between columns	mm	1380		1580		
Spindle nose to table surface	mm	150-850		200-1000		
> Table						
Table size	mm	1300x1800	1300x2200	1500x2000	1500x2500	1500x3000
Max. table loading	t	4	5	6	8	10
T slot size		22x160x8		22x160x9		
> Feed rate						
Cutting feedrate (X/Y/Z)	m/min	20/20/20		16/20/20		
Rapid traverse (X/Y/Z)	m/min	20/24/24		18/24/24		
> Spindle						
Drive type		Built-in spindle				
Spindle speed	rpm	18000				
Spindle power(S1/S6)	kW	25/35				
Spindle torque(S1/S6)	N.m	87/130				
Spindle taper		HSK-A63				
Ram section	mm	350x350				
> Tool magazine(Optional)						
Tool magazine capacity	T	20/24				
Tool shank type		HSK-A63				
Max. tool diameter(Adjacent Vacant)	mm	Φ35/Φ66				
Max. tool length	mm	300				
Max. tool weight	kg	8				
> Other						
Power capacity	kVA	65				
Machine weight	t	16.5	19.5	20	23	26.5
Machine size(LxWxH)	cm	560x388x420	690x388x420	741x400x421	777x400x421	941x400x435

Standard Configuration

- 1 Controller: SIEMENS 840Dsl
- 2 Kessler built-in spindle
- 3 Spindle oil chiller
- 4 Pneumatic,hydraulic and lubrication system
- 5 Full enclosure with top cover
- 6 Internal helix chip conveyer

- 7 Cutting cooling
- 8 3-color signal lamp, working light
- 9 Ethernet function
- 10 Linear scale
- 11 Standard accessories
- 12 Common maintenance tools
- 13 External chain type chip conveyer

Option Configuration

- 1 Controller:HEIDENHAIN TNC640
- 2 KSL24000rpm(HSK-A63)
- 3 20/24T armless ATC(HSK-A63)
- 4 Coolant through spindle
- 5 Spindle ring spray
- 6 CNC rotary table(4th)
- 7 Air conditioner
- 8 Workpiece probe(2D)
- 9 Tool setter
- 10 Oil skimmer
- 11 Oil mist collector
- 12 Cutting oil mist cooling system
- 13 Water gun
- 14 2D/3D Graphic simulation function
- 15 Power-off protection
- 16 Air gun
- 17 Power-off protection
- 18 High speed, high accuracy die mold function

Items	Unit	GRU II e28x40	GRU II e28x50	GNUe32x40	GNUe32x50
> Machining Capacity					
X travel	mm	4200	5500	4200	5500
Y travel	mm	2700		3200	
Z travel	mm	1000		1250	
Distance between columns	mm	2800		3200	
Spindle nose to table surface	mm	250-1250		150-1400	
> Table					
Table size	mm	2000x4000	2000x5000	2500x4000	2500x5000
Max. table loading	t	18	22	20	25
T slot size		22x200x9		28x200x12	
> Feed rate					
Cutting feedrate (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	
Rapid traverse (X/Y/Z)	m/min	12/15/15	10/15/15	12/15/15	10/15/15
> Spindle					
Drive type		Built-in spindle		Built-in spindle	
Spindle speed	rpm	50-6000		50-6000	
Spindle power	kW	22/25		22/25	
Spindle torque	N.m	505/600		505/600	
Spindle taper		BT50		BT50	
Ram section	mm	420x430		420x430	
> Tool magazine(Optional)					
Tool magazine capacity	T	24/40		24/40	
Tool shank type		BT50		BT50	
Max. tool diameter(Adjacent Vacant)	mm	Φ110/Φ220		Φ110/Φ220	
Max. tool length	mm	300		400	
Max. tool weight	kg	20		25	
> Other					
Power capacity	kVA	55		65	
Machine weight	t	48	53	65	70
Machine size(LxWxH)	cm	1250x530x560	1500x530x560	1250x570x715	1500x570x715

Standard Configuration

- 1 Controller:FANUC 0i
- 2 HISION built-in spindle
- 3 Spindle oil chiller
- 4 Pneumatic,hydraulic and lubrication system
- 5 Simple splash guard
- 6 Internal helix chip conveyer
- 7 External chain type chip conveyer

- 8 Cutting cooling
- 9 3-color signal lamp, working light
- 10 Standard accessories
- 11 Common maintenance tools

Option Configuration

- 1 Controller:FANUC 31i
- 2 24/40T Arm type ATC
- 3 40T vertical & horizontal ATC
- 4 Column heighten
- 5 Coolant through spindle
- 6 Linear scale
- 7 CNC rotary table(4th)
- 8 Full enclosure
- 9 Auto milling heads
- 10 Manual milling heads
- 11 Manual heads storing shelf
- 12 2 station auto heads storing shelf
- 13 Workpiece probe
- 14 Tool setter
- 15 Oil skimmer
- 16 Air gun
- 17 Water gun
- 18 Air conditioner