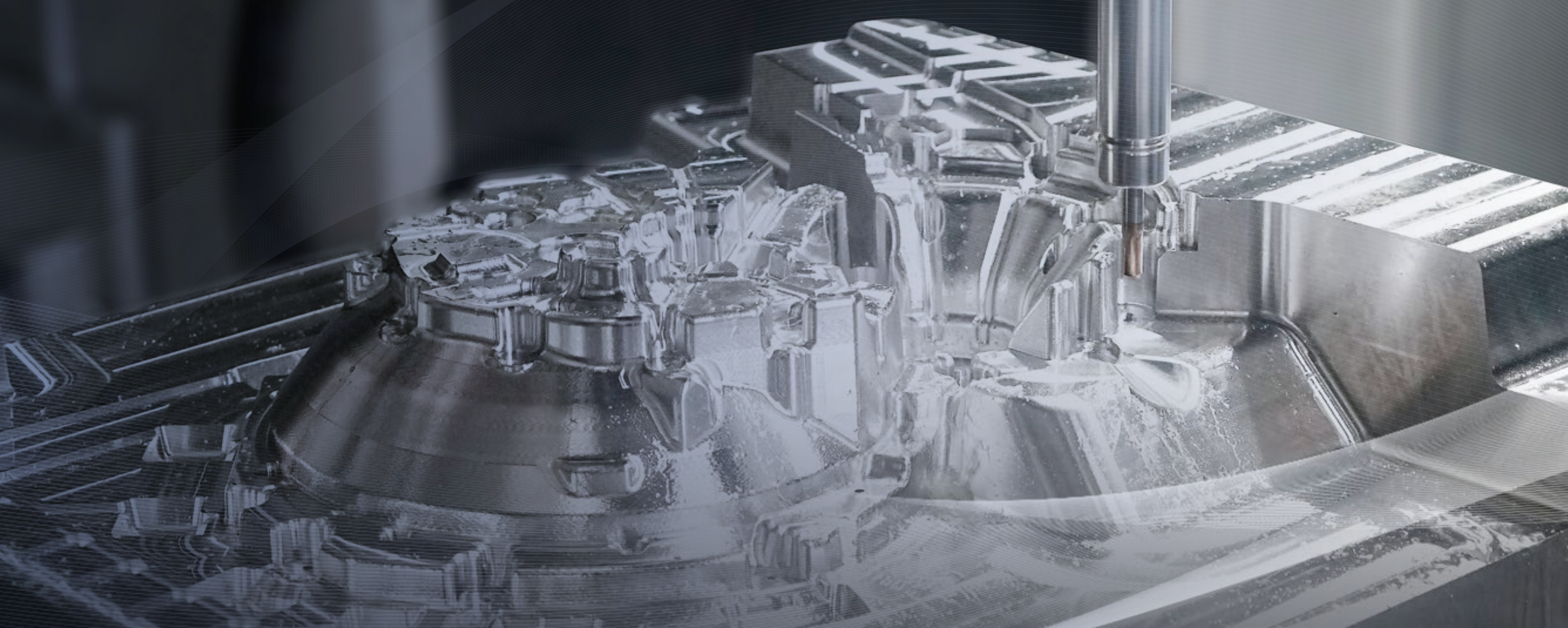




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NEW 2020-EN-M-A The text description, pictures and technical parameters in the sample are for reference only, and the changes due to technological development are subject to change without notice.

CNC MACHINE TOOLS FOR MOLD INDUSTRIES SOLUTIONS

HIGH SPEED | HIGH EFFICIENCY | HIGH ACCURACY

VMC II-CFV | MOUS II-MOUP | GRUe II-GNUe

HISION



VMC II series
CFV series



MOUS II series
MOUP series



High-Speed Vertical Machining Center

VMC II / CFV

Vertical machining center used high-strength cast iron material, long-span bed base and column, which provide a solid foundation and stable performance for the machining performance of machine tools. With high-speed spindle and high-speed feed system, guaranteeing machine efficiency and stability.



Fixed Crossrail High-speed Double Column Machining Center

MOUS II / MOUP

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.



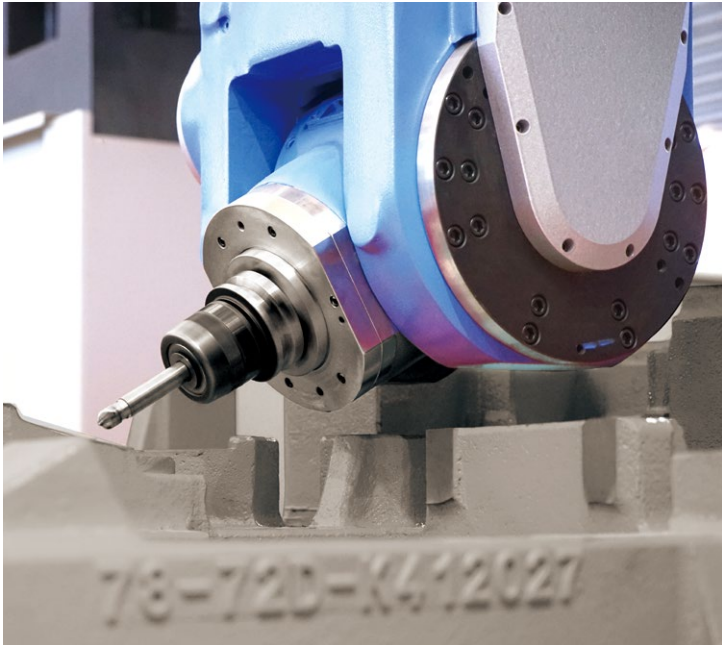


GRUe II series
GNUe series



Fixed Crossrail Double Column
Machining Center
GRUe II / GNUe

The GRUe II / 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.



VMC II

Items	Unit	VMC760 II	VMC850 II	VMC1000 II
» Machining Capacity				
X travel	mm	760	850	1000
Y travel	mm	400	500	600
Z travel	mm	500	500	600
Spindle nose to table surface	mm	150-650	150-650	150-750
» Table				
Table size	mm	900×400	1000×500	1200×600
Table load	t	0.3	0.6	0.8
T slot	mm	18×125×3	18×80×5	18×100×5
» Feed Rate				
Rapid traverse(X/Y/Z)	m/min	36/36/36	36/36/36	36/36/36
Cutting feedrate(X/Y/Z)	m/min	15/15/15	15/15/15	15/15/15
» Spindle				
Drive type		Direct Drive	Direct Drive	Direct Drive
Spindle speed	rpm	12,000	12,000	12,000
Spindle power	kW	7.5/11	11/15	11/15
Spindle torque	Nm	71.6/105	52.5/95.5	52.5/95.5
Spindle taper		BT40	BT40	BT40
Pull stud		P40T-I-MAS403	P40T-I-MAS403	P40T-I-MAS403
» Tool Magazine				
Tool magazine capacity	T	24	24	24
Tool magazine type		Arm type	Arm type	Arm type
Max.tool dia(Adjacent vacant)	mm	Φ78 (Φ150)	Φ78 (Φ150)	Φ78 (Φ150)
Max.tool length	mm	300	300	300
Max.tool weight	kg	7	7	7
Tool change time	s	2.5	2.5	2.5
» Other				
Power capacity	kVA	25	25	25
Machine weight	t	5.5	6	6.5
Machine size(L×W×H)	cm	230×325×255	250×340×255	280×355×265

Standard Configuration

1. Controller:Mitsubishi M80A

2. 12000rpm direct spindle

3. Spindle oil chiller

4. Penumatic,hydraulic and lubrication system

5. Cutting cooling

6. Internal helix chip conveyor
7. External chain type chip conveyor and trolley

8. Full enclosure with top cover

9. Air and water gun

10. 3-color signal lamp,working light

11. Standard accessories

12. Auto power off function

Option Configuration

1. Air conditioner

2. Auto door

3. ATC protection door

4. Tool setter
5. Oil skimmer

6. Oil mist collector

7. Contact type probe

8. Heat exchanger

VMC II

Items	Unit	VMC760 II	VMC850 II	VMC1000 II
» Machining Capacity				
X travel	mm	760	850	1000
Y travel	mm	400	500	600
Z travel	mm	500	500	600
Spindle nose to table surface	mm	150-650	150-650	150-750
» Table				
Table size	mm	900×400	1000×500	1200×600
Table load	t	0.3	0.6	0.8
T slot	mm	18×125×3	18×80×5	18×100×5
» Feed Rate				
Rapid traverse(X/Y/Z)	m/min	36/36/36	36/36/36	36/36/36
Cutting feedrate(X/Y/Z)	m/min	15/15/15	15/15/15	15/15/15
» Spindle				
Drive type		Direct Drive	Direct Drive	Direct Drive
Spindle speed	rpm	12,000	12,000	12,000
Spindle power	kW	7.5/11	11/15	11/15
Spindle torque	Nm	71.6 / 105	78.8/143.3	78.8/143.3
Spindle taper		BT40	BT40	BT40
Pull stud		P40T-I-MAS403	P40T-I-MAS403	P40T-I-MAS403
» Tool Magazine				
Tool magazine capacity	T	24	24	24
Tool magazine type		Arm type	Arm type	Arm type
Max.tool dia(Adjacent vacant)	mm	Φ78 (Φ150)	Φ78 (Φ150)	Φ78 (Φ150)
Max.tool length	mm	300	300	300
Max.tool weight	kg	7	7	7
Tool change time	s	2.5	2.5	2.5
» Other				
Power capacity	kVA	25	25	25
Machine weight	t	5.5	6	6.5
Machine size(L×W×H)	cm	230×325×255	250×340×255	280×355×265

Standard Configuration

1. Controller:FANUC 0i
(type 3,AICC II 200 read ahead)

2. 12000rpm direct spindle

3. Spindle oil chiller

4. Penumatic,hyhraulic and
lubrication system

5. Cutting cooling

6. Internal helix chip conveyor
7. External chain type chip conveyor and
trolley

8. Full enclosure with top cover

9. Air and water gun

10. 3-color signal lamp,working light

11. Standard accessories

12. Auto power off function

Option Configuration

1. Controller:FANUC 0i(type 1)

2. Air conditioner

3. Auto door

4. ATC protection door

5. Tool setter
6. Oil skimmer

7. Oil mist collector

8. Contact type probe

9. Dataserver

10. Heat exchanger

CFV

Items	Unit	CFV600	CFV900	CFV1100
» Machining Capacity				
X travel	mm	600	900	1100
Y travel	mm	430	430	540
Z travel	mm	510	510	520
Spindle nose to table surface	mm	150-660	150-660	150-670
» Table				
Table size	mm	900×430	1100×430	1300×550
Table load	t	0.5	0.7	1.2
T slot	mm	18×125×3	18×125×3	18×100×5
» Feed Rate				
Rapid traverse(X/Y/Z)	m/min	36/36/36	36/36/36	36/36/36
Cutting feedrate(X/Y/Z)	m/min	20/20/20	20/20/20	20/20/20
» Spindle				
Drive type		Built-in Spindle	Built-in Spindle	Built-in Spindle
Spindle speed	rpm	12,000	12,000	12,000
Spindle power	kW	7.5/11	7.5/11	7.5/11
Spindle torque	Nm	71.6/105	71.6/105	71.6/105
Spindle taper		BT40	BT40	BT40
Pull stud		MAS-P40T-1 (45°)	MAS-P40T-1 (45°)	MAS-P40T-1 (45°)
» Tool Magazine				
Tool magazine capacity	T	24	24	24
Tool magazine type		Servo arm type	Servo arm type	Servo arm type
Max.tool dia(Adjacent vacant)	mm	Φ80 (Φ125)	Φ80 (Φ125)	Φ80 (Φ125)
Max.tool length	mm	300	300	300
Max.tool weight	kg	7	7	7
Tool change time	s	1.5	1.5	1.5
» Other				
Power capacity	kVA	35	35	35
Machine weight	t	6	7	8
Machine size(L×W×H)	cm	206×240×266	260×242×258	290×289×268

Standard Configuration

1. Controller:Mitsubishi M80A

2. 12000rpm built-in spindle

3. Spindle oil chiller

4. Penumatic,hyhraulic and
lubrication system

5. Coolant system

6. Internal helix chip conveyor

7. External chain type chip conveyor
and trolley
8. Full enclosure with top cover

9. Air and water gun

10. 3-color signal lamp,working light

11. Standard accessories

12. Auto power off function

13. ATC protection door

Option Configuration

1. Air conditioner

2. Auto door

3. Heat exchanger

4. Tool setter
5. Oil skimmer

6. Oil mist collector

7. Contact type probe

8. KSL 20000rpm (HSK-A63)

CFV

Items	Unit	CFV600	CFV900	CFV1100
» Machining Capacity				
X travel	mm	600	900	1100
Y travel	mm	430	430	540
Z travel	mm	510	510	520
Spindle nose to table surface	mm	150-660	150-660	150-670
» Table150-670				
Table size	mm	900×430	1100×430	1300×550
Table load	t	0.5	0.7	1.2
T slot	mm	18×125×3	18×125×3	18×100×5
» Feed Rate				
Rapid traverse(X/Y/Z)	m/min	36/36/36	36/36/36	36/36/36
Cutting feedrate(X/Y/Z)	m/min	20/20/20	20/20/20	20/20/20
» Spindle				
Drive type		Built-in Spindle	Built-in Spindle	Built-in Spindle
Spindle speed	rpm	12,000	12,000	12,000
Spindle power	kW	10/22	10/22	10/22
Spindle torque	Nm	63.7/118	63.7/118	63.7/118
Spindle taper		BT40	BT40	BT40
Pull stud		MAS-P40T-1 （45°）	MAS-P40T-1 （45°）	MAS-P40T-1 （45°）
» Tool Magazine				
Tool magazine capacity	T	24	24	24
Tool magazine type		Servo arm type	Servo arm type	Servo arm type
Max.tool dia(Adjacent vacant)	mm	Φ80 (Φ125)	Φ80 (Φ125)	Φ80 (Φ125)
Max.tool length	mm	300	300	300
Max.tool weight	kg	7	7	7
Tool change time	s	1.5	1.5	1.5
» Other				
Power capacity	kVA	35	35	35
Machine weight	t	6	7	8
Machine size(L×W×H)	cm	206×240×266	260×242×258	290×289×268

Standard Configuration

1. Controller:FANUC 0i (type1)

2. 12000rpm built-in spindle

3. Spindle oil chiller

4. Penumatic,hydraulic and lubrication system

5. Coolant system

6. Internal helix chip conveyor

7. External chain type chip conveyor and trolley
8. Full enclosure with top cover

9. Air and water gun

10. 3-color signal lamp,working light

11. Standard accessories

12. Auto power off function

13. ATC protection door

Option Configuration

1. Air conditioner

2. Auto door

3. Heat exchanger

4. Tool setter

5. Oil skimmer
6. Oil mist collector

7. Contact type probe

8. Dataserver

9. KSL 20000rpm (HSK-A63)

MOUS II

Items	Unit	MOUS13 IIx8	MOUS13 IIx16	MOUS13 IIx21	MOUS16 IIx20	MOUS16 IIx25	MOUS16 IIx30
» Machining Capacity							
X travel	mm	1300	1600	2000	2000	2500	3100
Y travel	mm	800	1300	1300	1500	1500	1500
Z travel	mm	700	700	700	800	800	800
Distance between columns	mm	1380	1380	1380	1580	1580	1580
Spindle nose to table surface	mm	150-850	150-850	150-850	200-1000	200-1000	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	22x160x8	22x160x9	22x160x9	22x160x9
» Feed rate							
Cutting feedrate (X/Y/Z)	m/min	20/20/20	20/20/20	16/20/20	16/20/20	16/20/20	16/20/20
Rapid traverse (X/Y/Z)	m/min	20/24/24	20/24/24	18/24/24	18/24/24	18/24/24	18/24/24
» Spindle							
Drive type		Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle	Built-in spindle
Spindle speed	rpm	12000	12000	12000	12000	12000	12000
Spindle power (S1/S6)	Low speed	kW	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
	High speed		18.5/22	18.5/22	18.5/22	18.5/22	18.5/22
Spindle torque (S1/S6)	Low speed	N.m	95.5/167	95.5/167	95.5/167	95.5/167	95.5/167
	High speed		50.5/81.7	50.5/81.7	50.5/81.7	50.5/81.7	50.5/81.7
Spindle taper		BT40	BT40	BT40	BT40	BT40	BT40
Ram section	mm	350x350	350x350	350x350	350x350	350x350	350x350
» Tool magazine(Optional)							
Tool magazine capacity	T	20/24	20/24	20/24	20/24	20/24	20/24
Tool shank type		BT40	BT40	BT40	BT40	BT40	BT40
Max. tool diameter (Adjacent Vacant)	mm	Φ35(Φ66)	Φ35(Φ66)	Φ35(Φ66)	Φ35(Φ66)	Φ35(Φ66)	Φ35(Φ66)
Max. tool length	mm	300	300	300	300	300	300
Max. tool weight	kg	8	8	8	8	8	8
» Other							
Power capacity	kVA	65	65	65	65	65	65
Machine weight	t	12.5	16.5	19.5	20	23	26.5
Machine size(L×W×H)	cm	360x355x420	560x388x420	690x388x420	741x400x435	777x400x435	941x400x435

Standard configuration

1. Controller: MITSUBISHI M80 (MOUS13 II x 8 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 0i

2. KSL20000rpm(HSK-A63)

3. KSL24000rpm(HSK-A63)

4. 16/24T armless ATC

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(0i)

20. Air gun

MOUP

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

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

GRUe II

Items	Unit	GRUe28 II x40	GRUe28 II x50	GNUe32x40	GNUe32x50
» Machining Capacity					
X travel	mm	4200	5500	4200	5500
Y travel	mm	2700	2700	3200	3200
Z travel	mm	1000	1000	1250	1250
Distance between columns	mm	2800	2800	3200	3200
Spindle nose to table surface	mm	250-1250	250-1250	150-1400	150-1400
» Table					
Table size	mm	2000x4000	2000x5000	2500x4000	2500x5000
Max. table loading	t	18	22	20	25
T slot size		22x200x9	22x200x9	28x200x12	28x200x12
» Feed rate					
Cutting feedrate (X/Y/Z)	m/min	10/10/10	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	Built-in spindle	Built-in spindle
Spindle speed	rpm	50-6000	50-6000	50-6000	50-6000
Spindle power	kW	22/25	22/25	22/25	22/25
Spindle torque	N.m	505/600	505/600	505/600	505/600
Spindle taper		BT50	BT50	BT50	BT50
Ram section	mm	420x430	420x430	420x430	420x430
» Tool magazine(Optional)					
Tool magazine capacity	T	24/40	24/40	24/40	24/40
Tool shank type		BT50	BT50	BT50	BT50
Max. tool diameter(Adjacent Vacant)	mm	Φ110/Φ220	Φ110/Φ220	Φ110/Φ220	Φ110/Φ220
Max. tool length	mm	300	300	400	400
Max. tool weight	kg	20	20	25	25
» Other					
Power capacity	kVA	55	55	65	65
Machine weight	t	48	53	65	70
Machine size(L×W×H)	cm	1250x530x560	1500x530x560	1250x570x715	1500x570x715

Standard Configuration

1. Controller:FANUC Oi

2. HISION built-in spindle

3. Spindle oil chiller

4. Pneumatic,hydraulic and lubrication system

5. Simple splash guard

6. Internal helix chip conveyor
7. External chain type chip conveyor

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