

GLUe series Fixed crossrail Double Machining Center

-Introduction

Description of machine characteristics



Main parameters :

Mode	GLUe18	GLUe23	GLUe28
X travel	3200mm	3200mm、 4200mm	3200mm、 4200mm、 5500mm、 6500mm
Y travel	1700mm、 2200mm (OP)	2200mm 2700mm (OP)	2700mm 3200mm (OP)
Z travel	800m 1000mm (OP)	800m 1000mm (OP)	800m 1000mm (OP)
Table width	1.5m	2m	2m、 2.5m(can choose two or three linear guideway)
Table length	3m	3m、 4m	3m、 4m、 5m、 6m
Gantry width	1800mm	2290mm	2790mm
Ram	380×380square ram		
Spindle speed	8000rpm (12000rpm-BT40 , 20000/24000rpm-HSK-A63)		
Spindle power	26/45kW (30/55kW , 25/40kW , 16/24kW)		
Spindle torque	305/623N.m (95.5/214N.m , 87/135N.m , 67/100N.m)		

Machine parameter-GLUe18×30



Item		Parameter		Item		Parameter	
Processing	X travel	mm	3200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	1700		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ190
	Gantry width	mm	1800		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	1500×3000		Tool change time (T-T)	s	2.9/4
	Max. load	t	10		Position accuracy	X axis	mm
	T slot	mm	22×160×9	Y axis		mm	0.015
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.012
	Spindle power	kW	26/45		Y axis	mm	0.010
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	30
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	880×460×530
	X/Y/Z rapid feed	m/min	15/20/15	Controller		-	FANUC 0i MF (a1)

Machine parameter-GLUe23×30



Item			Parameter	Item			Parameter
Processing	X travel	mm	3200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2200		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ160
	Gantry width	mm	2290		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×3000		Position accuracy	Tool change time (T-T)	s
	Max. load	t	15	X axis		mm	0.018
	T slot	mm	22×200×9	Y axis		mm	0.015
Spindle	Driven system	-	Built-in spindle	Repeatability position accuracy	Z axis	mm	0.015
	Spindle speed	rpm	8000		X axis	mm	0.012
	Spindle power	kW	26/45		Y axis	mm	0.012
	Spindle torque	Nm	305/623	Z axis	mm	0.010	
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	35
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	945×475×530
	X/Y/Z rapid feed	m/min	15/20/15	Controller		-	FANUC 0i MF (a1)

Item			Parameter	Item			Parameter
Processing	X travel	mm	4200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2200		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2290		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×4000		Tool change time (T-T)	s	2.9/4
	Max. load	t	18		Position accuracy	X axis	mm
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.015
	Spindle power	kW	26/45		Y axis	mm	0.012
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	40
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	1185×475×530
	X/Y/Z rapid feed	m/min	12/20/15	Controller		-	FANUC 0i MF (a1)

Item			Parameter	Item			Parameter
Processing	X travel	mm	3200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2700		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2790		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×3000		Tool change time (T-T)	s	2.9/4
	Max. load	t	15		Position accuracy	X axis	mm
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.012
	Spindle power	kW	26/45		Y axis	mm	0.015
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	38
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	975×515×530
	X/Y/Z rapid feed	m/min	15/15/15	Controller		-	FANUC 0i MF (a1)

Item			Parameter	Item			Parameter
Processing	X travel	mm	4200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2700		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2790		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×4000		Tool change time (T-T)	s	2.9/4
	Max. load	t	18		Position accuracy	X axis	mm
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.015
	Spindle power	kW	26/45		Y axis	mm	0.015
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	43
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	1215×515×530
	X/Y/Z rapid feed	m/min	12/15/15	Controller		-	FANUC Oi MF (a1)

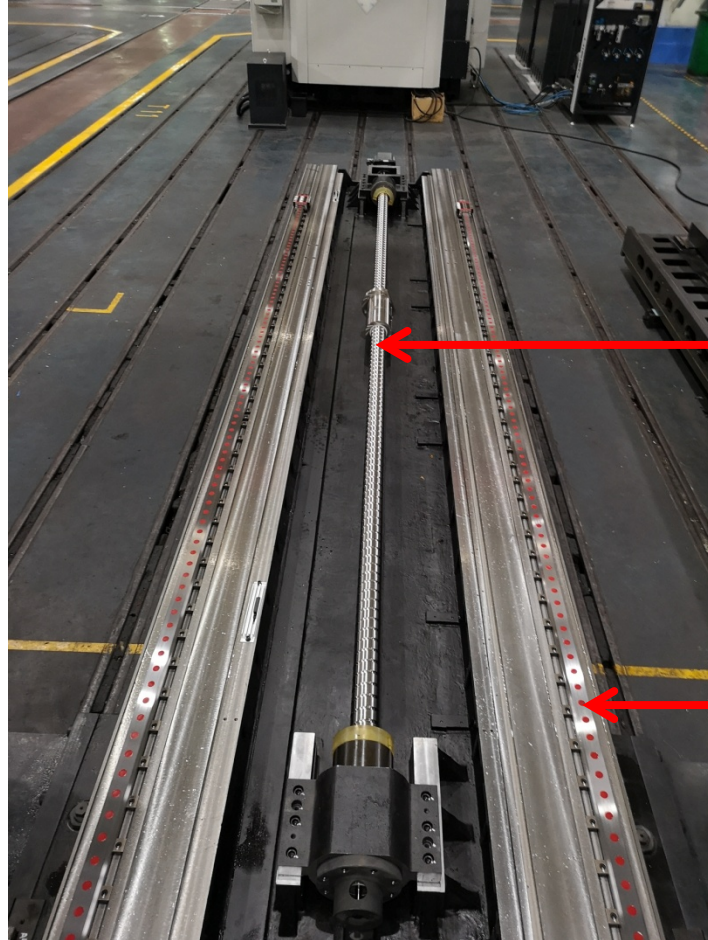
Item			Parameter	Item			Parameter
Processing	X travel	mm	5500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2700		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2790		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×5000		Tool change time (T-T)	s	2.9/4
	Max. load	t	22		Position accuracy	X axis	mm
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.018
	Spindle power	kW	26/45		Y axis	mm	0.015
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	47
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	1215×515×530
	X/Y/Z rapid feed	m/min	10/15/15	Controller		-	FANUC Oi MF (a1)

Machine parameter-GLUe28×60



Item			Parameter	Item			Parameter
Processing	X travel	mm	6500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2700		Driven system	-	BT50
	Z travel	mm	800		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2790		Max. tool length	mm	300
	Distance between spindle center and table surface	mm	250-1050		Max. tool weight	kg	20
Table	Table (A×B)	mm	2000×6000		Tool change time (T-T)	s	2.9/4
	Max. load	t	25		Position accuracy	X axis	mm
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Built-in spindle	Z axis		mm	0.015
	Spindle speed	rpm	8000	Repeatability position accuracy	X axis	mm	0.020
	Spindle power	kW	26/45		Y axis	mm	0.015
	Spindle torque	Nm	305/623		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	60
	Ram section	mm	380×380	Machine weight		t	52
Feed	X/Y/Z feed	m/min	10/10/10	Machine size		cm	1620×515×530
	X/Y/Z rapid feed	m/min	10/15/15	Controller		-	FANUC Oi MF (a1)

Structural features - ball screw and linear guideway -X axis



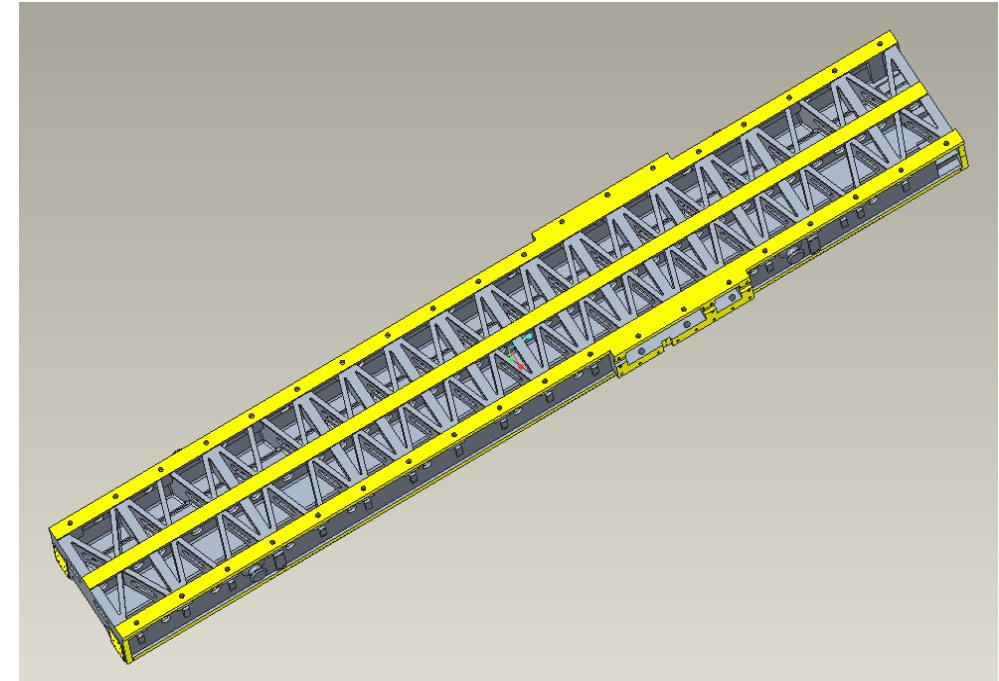
Span of linear guideway A

Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GLUe18×30	63	30	C3	PMI
GLUe23×30	63	30	C3	PMI
GLUe23×40	80	40	C3	PMI
GLUe28×30	63	30	C3	PMI
GLUe28×40	80	40	C3	PMI
GLUe28×50	80	40	C3	PMI
GLUe28×60	80	40	C3	PMI

Model	Type	width (mm)	Slider type	precision level	No.	Span A(mm)	Brand
GLUe18×30	MRS45	45	MRW45	G2	10	960	SCHNEEBERGER
GLUe23×30	MRS45	45	MRW45	G2	10	1200	SCHNEEBERGER
GLUe23×40	MRS45	45	MRW45	G2	12	1200	SCHNEEBERGER
GLUe28×30	MRS45	45	MRW45	G2	10	1200	SCHNEEBERGER
GLUe28×40	MRS45	45	MRW45	G2	12	1200	SCHNEEBERGER
GLUe28×50	MRS45	45	MRW45	G2	14	1200	SCHNEEBERGER
GLUe28×60	MRS45	45	MRW45	G2	18	1200	SCHNEEBERGER



Excellent rigidity, enable the bed of the GLU series with load advantages, especially GLUe23/28, compare with the same specification Taiwan's brand is of nearly 20% higher load ability. ◦



The internal of the bed adopt cross ribs, which can not only maintain high rigidity, but also improve the lateral torsion resistance, reduce the amplitude of the workpiece in the lateral processing, and improve the machining accuracy.

Structural features - bed



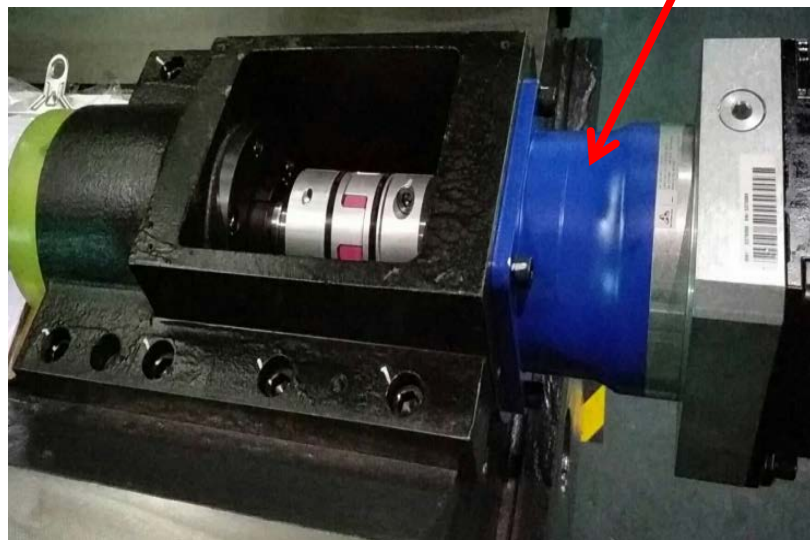
When GLUe28 series is selected with 2.5m worktable, bed guideway can be selected with three guideway structures, three groups of roller linear guideway sliders are densely distributed to support the workpiece load on average, and the worktable maintains the best rigidity and flatness under the processing conditions of different loads and positions of strong cutting.



The GLUe28×50 and GLUe28×60 bed's X-axis ball screw is equipped with follow-up auxiliary support, which solves the technical difficulties of machine movement positioning accuracy and load over tolerance caused by gravity sag in the screw center of large precision CNC double column machining center, thereby improving the transmission accuracy.

Structural features -reducer

reducer



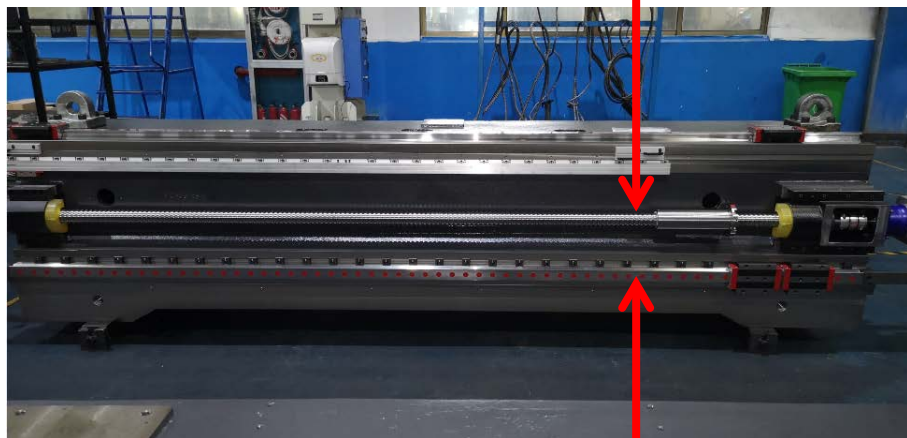
X/Y axis drive system adopts motor + reducer imported from Germany+ integral type motor base, which has better assembly precision. Compared with the motor + belt drive structure, this former has better rigidity

Belt drive mechanism



Motor + belt drive structure of other brands

Structural features - ball screw and linear guideway -Y axis



Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GLUe18x30	50	12	C3	PMI
GLUe23ex30	63	20	C3	PMI
GLUe23ex40	63	20	C3	PMI
GLUe28ex30	63	20	C3	PMI
GLUe28ex40	63	20	C3	PMI
GLUe28ex50	63	20	C3	PMI
GLUe28ex60	63	20	C3	PMI

Span of linear guideway

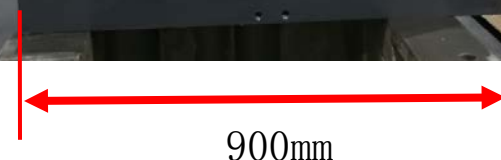


Model	Type	width (mm)	Slider type	precision level	No.	Span A(mm)	Brand
GLUe18ex30	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe23ex30	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe23ex40	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe28ex30	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe28ex40	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe28ex50	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GLUe28ex60	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER

Structural features –crossrail

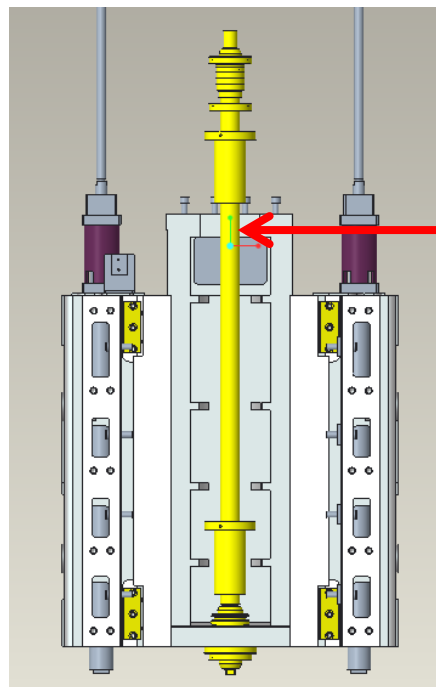


Arch way

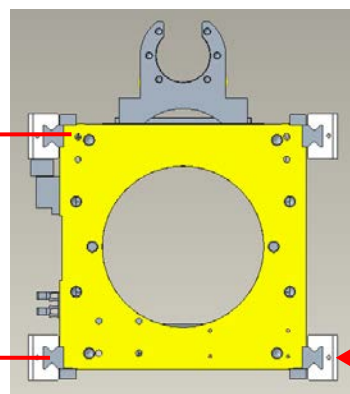


1. GLUe18/23/28 series crossrail, thickness increased to 900mm; At the same time, through mechanical design and finite element method, a new cross section of the beam is designed, and at the same time, the arch bridge mode and internal reinforcement are added, which are perfectly combined.
2. GLU series crossrail, double guideway 90 degrees layout, give full play to the beam rigidity, and linear guideway itself with the best rigidity.
3. Drive structure with large pitch ball screw and large reducer, and high rigidity of crossrail.

Structural features - ball screw and linear guideway -Z axis



Model	Ball screw (mm)		Ball screw precision level	Brand	Ram guideway C
	Diameter	Pitch			
GLUe18×30	50	10	C3	PMI	135
GLUe23×30	50	10	C3	PMI	135
GLUe23×40	50	10	C3	PMI	135
GLUe28×30	50	10	C3	PMI	135
GLUe28×40	50	10	C3	PMI	135
GLUe28×50	50	10	C3	PMI	135
GLUe28×60	50	10	C3	PMI	135

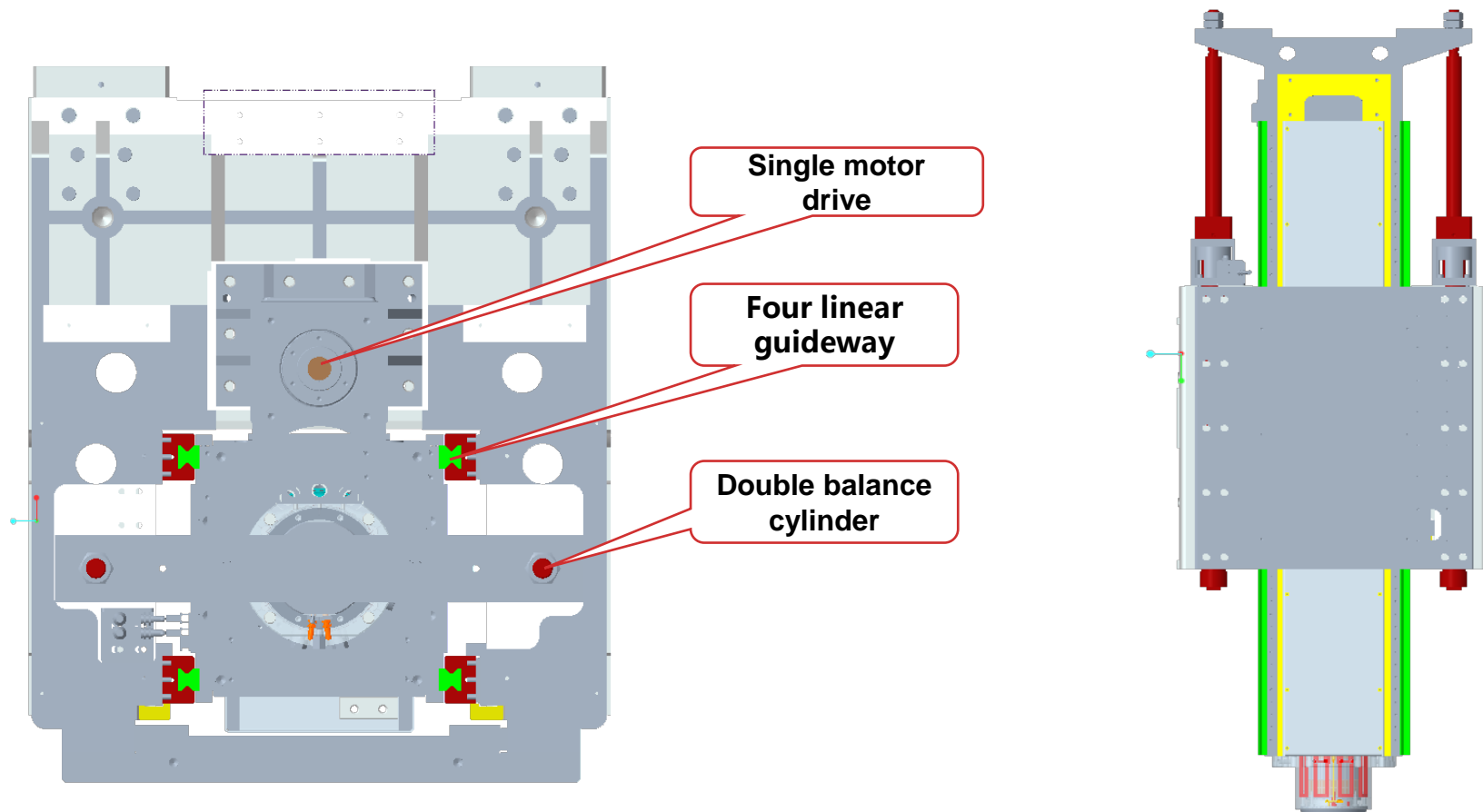


Model	Type	width (mm)	Slider type	precision level	No.	Span A(mm)	Brand
GLUe18e×30	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe23e×30	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe23e×40	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe28e×30	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe28e×40	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe28e×50	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER
GLUe28e×60	MRS35	34	MRD35	8	G2	343	SCHNEEBERGER

Ram guideway C

Structural features –saddle and ram

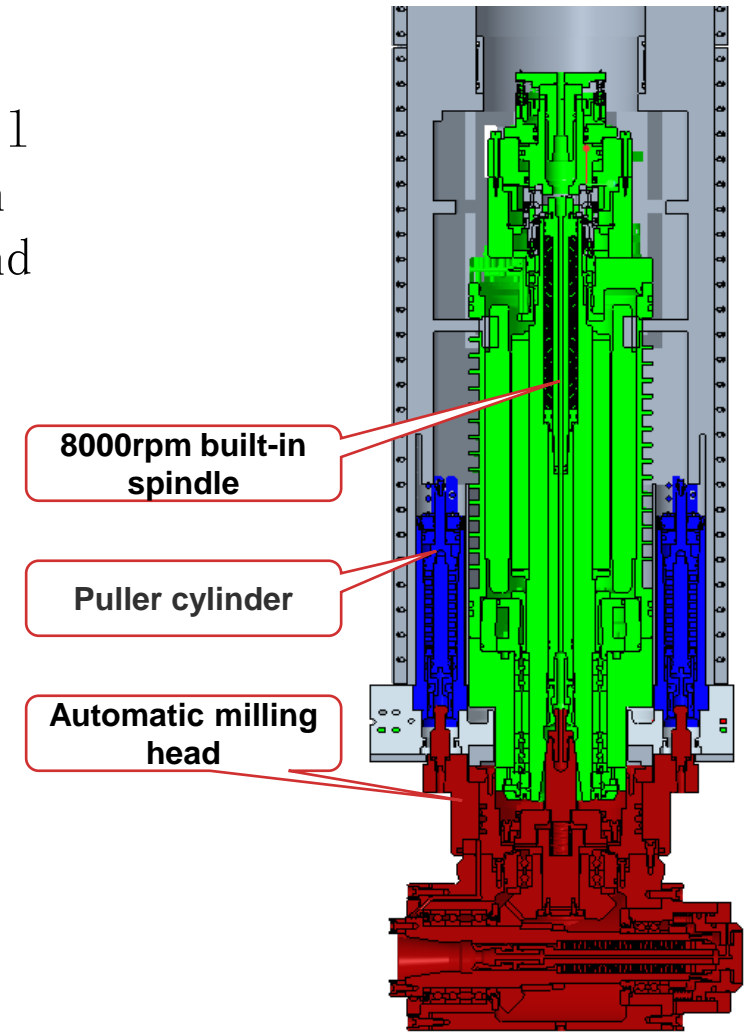
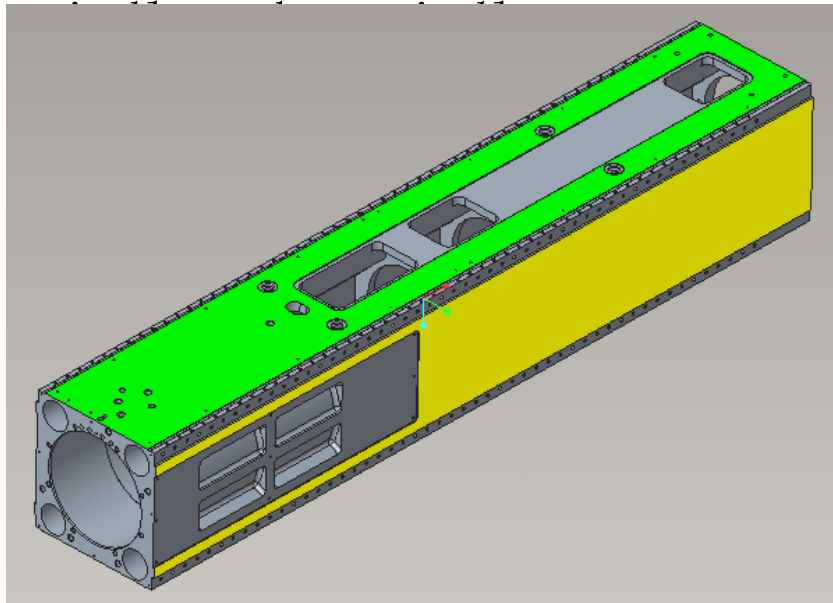
Glue series fixed crossrail double Z axis adopts four linear guideway + double balance cylinder + single drive form. The structure is mature, reliable and low cost, which can meet the needs of conventional customers.



Structural features –saddle and ram

The ram is made of high-strength high-quality cast iron, resin sand molding, the guide rail pair is made of German baose plastic plate + medium frequency hardened sliding rail structure, strong lubrication system, and hydraulic double oil cylinder balance. The square ram structure with large section has good seismic performance, and fully meets the rigid demand of deep and heavy chip processing.

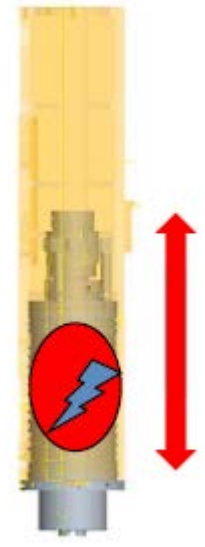
Under the configuration of 8000 rpm self-made motorized spindle, the ram can be optimized and equipped



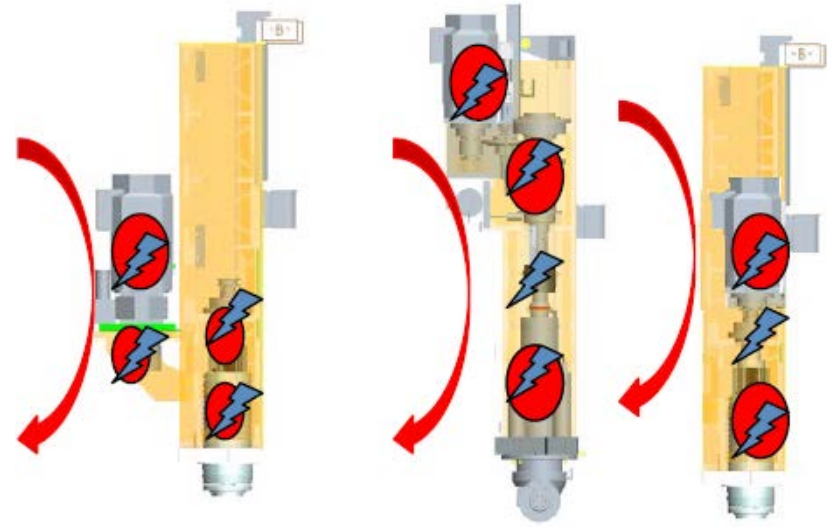
Structural features - advantages of ram components



- HISION**
- Small number of parts
 - Simple structure
 - High technology content



- Other brands**
- Large number of parts
 - Complex structure
 - Low technology content



Effect

- Less error links
- Single symmetry of heat source
- Single vibration source
- Simple maintenance

Stable

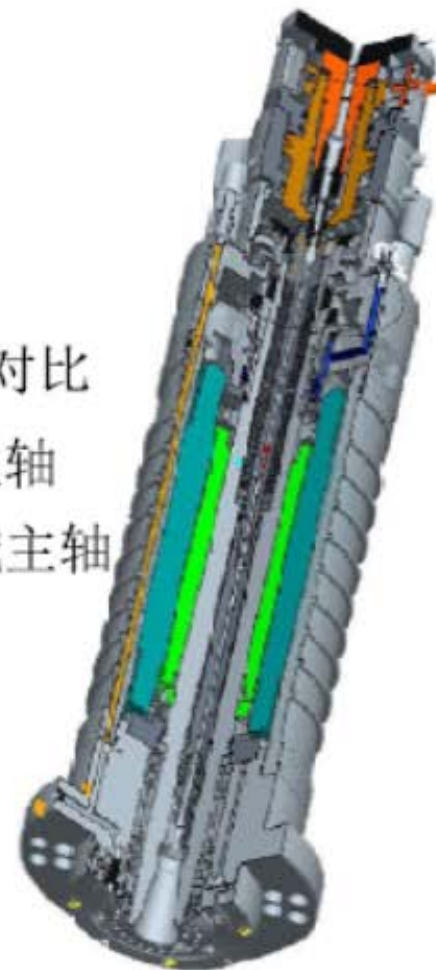
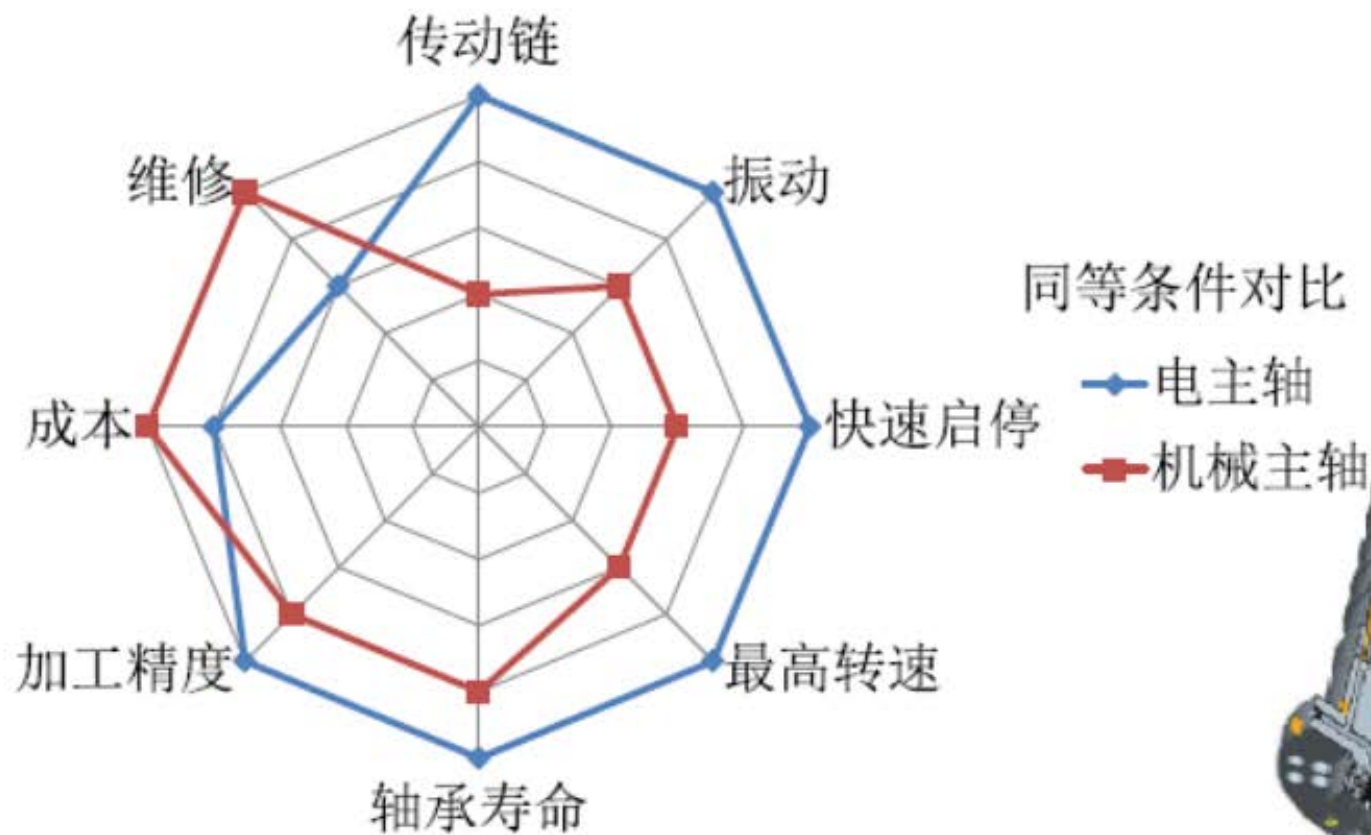
Reliable

- Many error links
- The heat sources are various and complex
- The vibration sources are diverse and complex
- Complex maintenance

The stability is relatively poor

The reliability is relatively poor

电主轴特点总结



Structural features - advantages of ram components

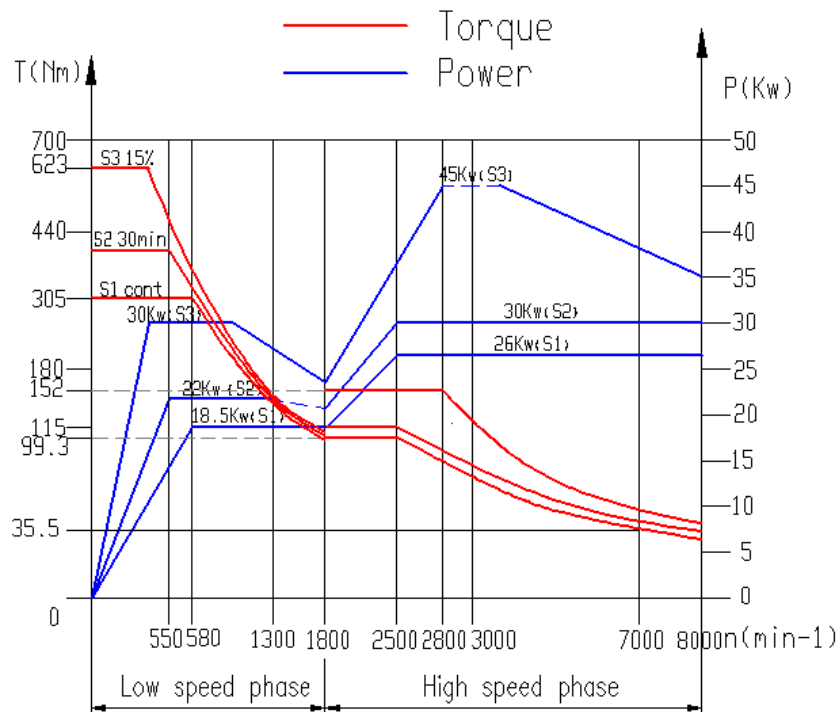


Other brands	GLUe (HISION)	HISION GLUe's Characteristic
Belt drive, elastic coupling direct connection, gear drive	Self made built-in spindle	High efficiency transmission, Fast start stop, Energy saving
Many components and heavy RAM	Lightweight of ram components	High dynamic performance and energy saving
Z-axis non gravity drive	Z-axis center of gravity drive	Less friction of guide rail, less power consumption of motor, energy saving, long service life and cost saving
Centralized thin oil lubrication	Centralized grease lubrication	Cost saving, pollution free and energy saving
The cutting fluid is easily contaminated by lubricating oil	The cutting fluid has no pollution	Cost saving, simple maintenance and energy saving
Normally open mode hydraulic station	Normally closed mode hydraulic station	Energy saving without normal start
Machine tool vibration, energy consumption, tool wear fast	The machine tool has small vibration, low energy consumption and slow tool wear	Low energy consumption, long tool life and low cost
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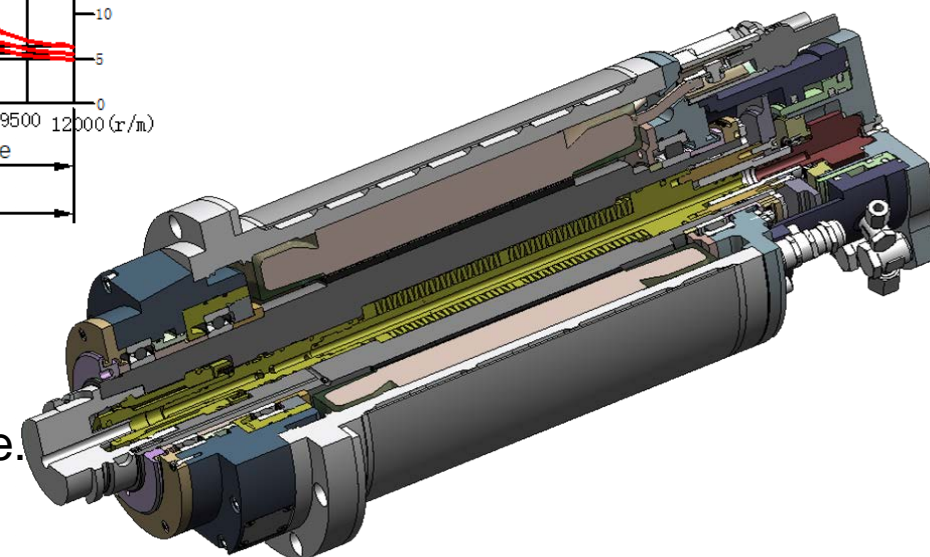
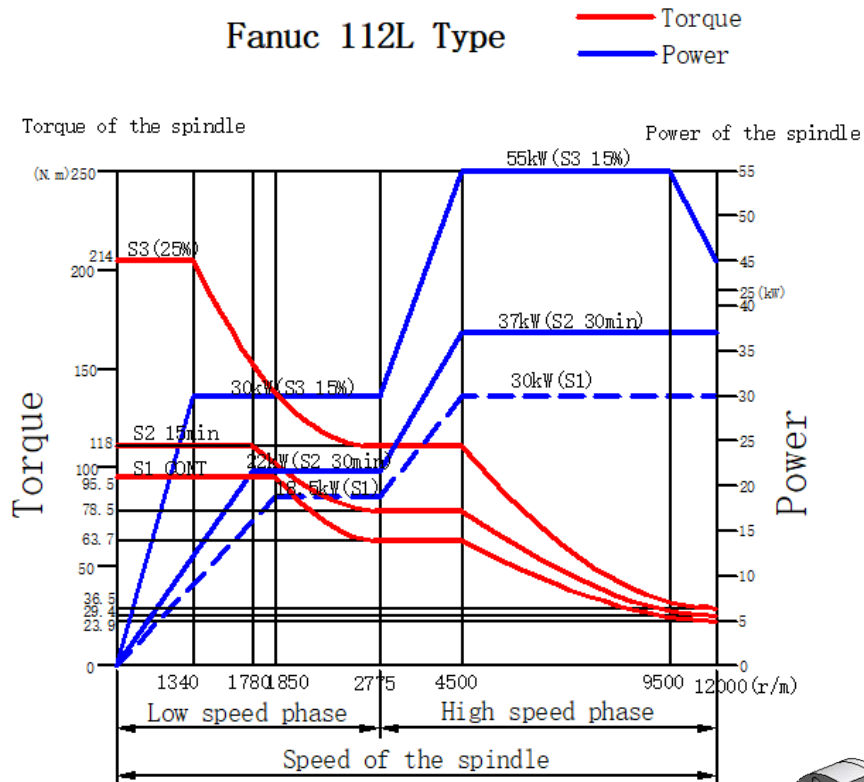
Structural features - Self made built-in spindle



FANUC 160LL Advanced Type



Fanuc 112L Type



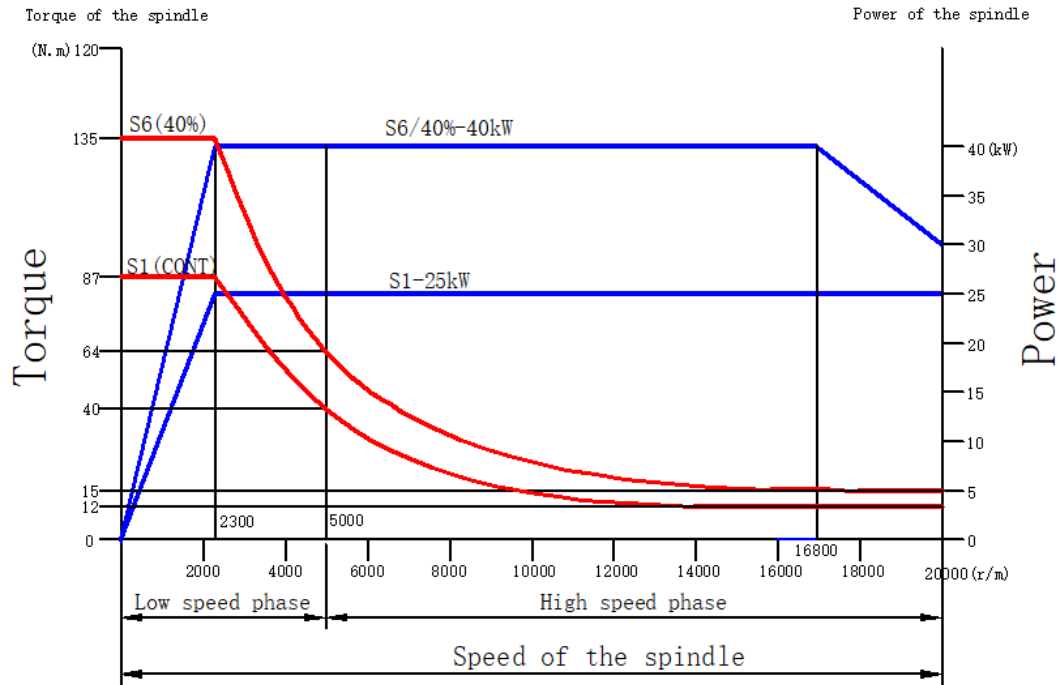
Including Kessler spindle, you can choose.

Structural features - Choose Kessler motorized spindle from Germany



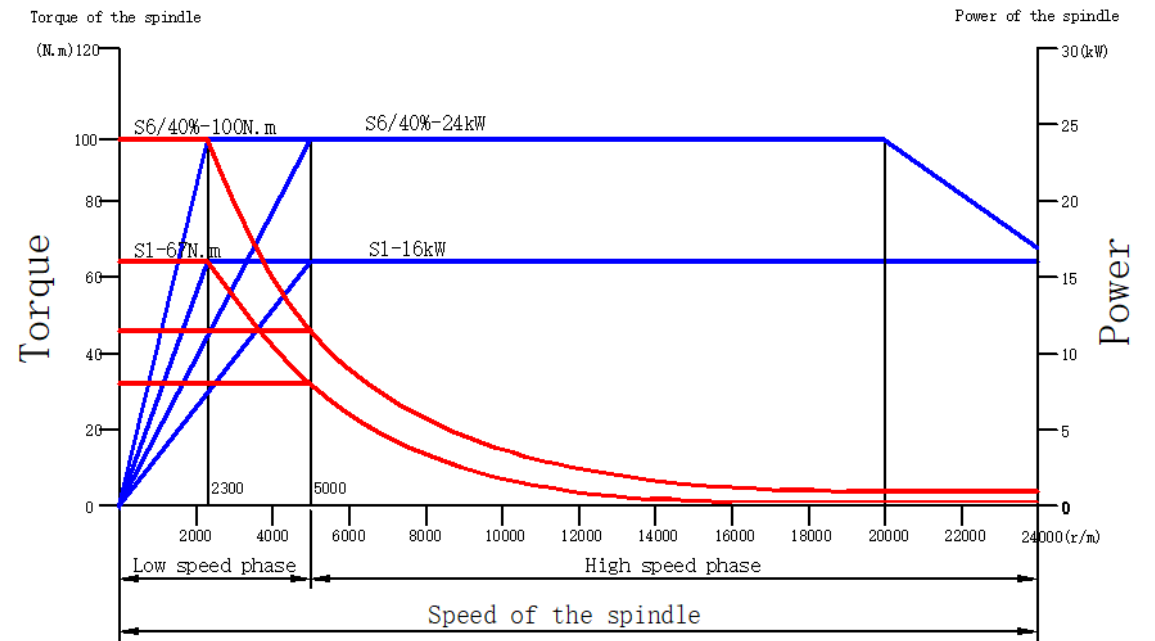
Kessler 20000rpm
HSK-A63

— Torque
— Power



Kessler 24000rpm
HSK-A63

— Torque
— Power



Structural features -column



500mm



1100mm

1. Glu23/28 series column, with width of 1100mm and thickness of 500mm, adopt high-strength cast iron, resin sand molding, and reasonable internal rib layout, which fully meet the support rigidity of crossrail components and saddle components.
2. According to the size characteristics of the customer's parts, the columns can be selected for overall heightening to meet the requirements of parts processing.

Please note:

Heighten 200mm: Full height is 450-1250mm

Heighten 400mm: full height is 650-1450mm

Power and torque of three axis-FANUC



Model	axis	type	Power kW	Torque Nm	Max torque Nm	Model	axis	type	Power kW	Torque Nm	Max torque Nm
GLUe18×30	X	αiF 30/4000	7	30	83	GLUe28×40	X	αiF 30/4000	7	30	83
	Y	αiF 22/3000	4	22	77		Y	αiF 22/3000	4	22	77
	Z	αiF 30/4000	7	30	83		Z	αiF 30/4000	7	30	83
	主轴	BiI160LL/13000 Advanced Type	26/45	305/623			主轴	BiI160LL/13000 Advanced Type	26/45	305/623	
GLUe23×30	X	αiF 30/4000	7	30	83	GLUe28×50	X	αiF 40/3000	6	38	130
	Y	αiF 22/3000	4	22	77		Y	αiF 22/3000	4	22	77
	Z	αiF 30/4000	7	30	83		Z	αiF 30/4000	7	30	83
	主轴	BiI160LL/13000 Advanced Type	26/45	305/623			主轴	BiI160LL/13000 Advanced Type	26/45	305/623	
GLUe23×40	X	αiF 30/4000	7	30	83	GLUe28×60	X	αiF 40/3000	6	38	130
	Y	αiF 22/3000	4	22	77		Y	αiF 22/3000	4	22	77
	Z	αiF 30/4000	7	30	83		Z	αiF 30/4000	7	30	83
	主轴	BiI160LL/13000 Advanced Type	26/45	305/623			主轴	BiI160LL/13000 Advanced Type	26/45	305/623	
GLUe28×30	X	αiF 30/4000	7	30	83						
	Y	αiF 22/3000	4	22	77						
	Z	αiF 30/4000	7	30	83						
	主轴	BiI160LL/13000 Advanced Type	26/45	305/623							

Controller-FANUC 0i

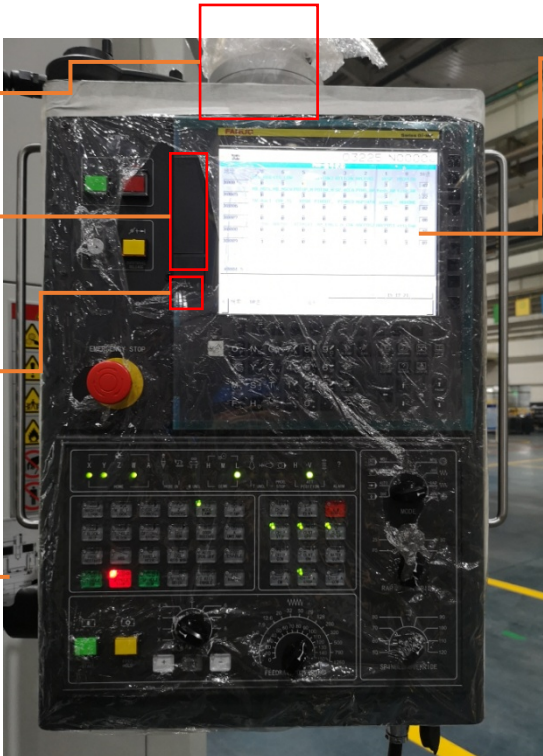


◆ Rotary operation control panel

◆ CF card

◆ USB interface

◆ Hand wheel



◆ 10.4" TFT LCD capacitive non-touch screen

operation control panel



System package		FANUC 0i a1	
Standard		Option	
No	Name	No	Name
1	Inserted Ethernet interface	1	RAM (2M)
2	10.4" TFT LCD capacitive non-touch screen	2	High speed processing 400
3	CF card + USB slot+RS232	3	Data-sever
4	R660 Mold package 200	4	三维动态图形显示功能
5	高速高精加工功能(AICC II)	5	五面体功能
		6	最大预读数段400
		7	高速处理功能
		8	机床CF存储卡 (非原装 1G)
		9	机床CF存储卡 (原装 1G)



Simple enclosure
(ST)



Full enclosure without top cover



Full enclosure with top cover

Note:

1. GLUe28×50 and GLUe28×60 cannot be equipped with full enclosure with top , but only with simple enclosure or full enclosure
2. Full enclosure with top is recommended when machine with CTS

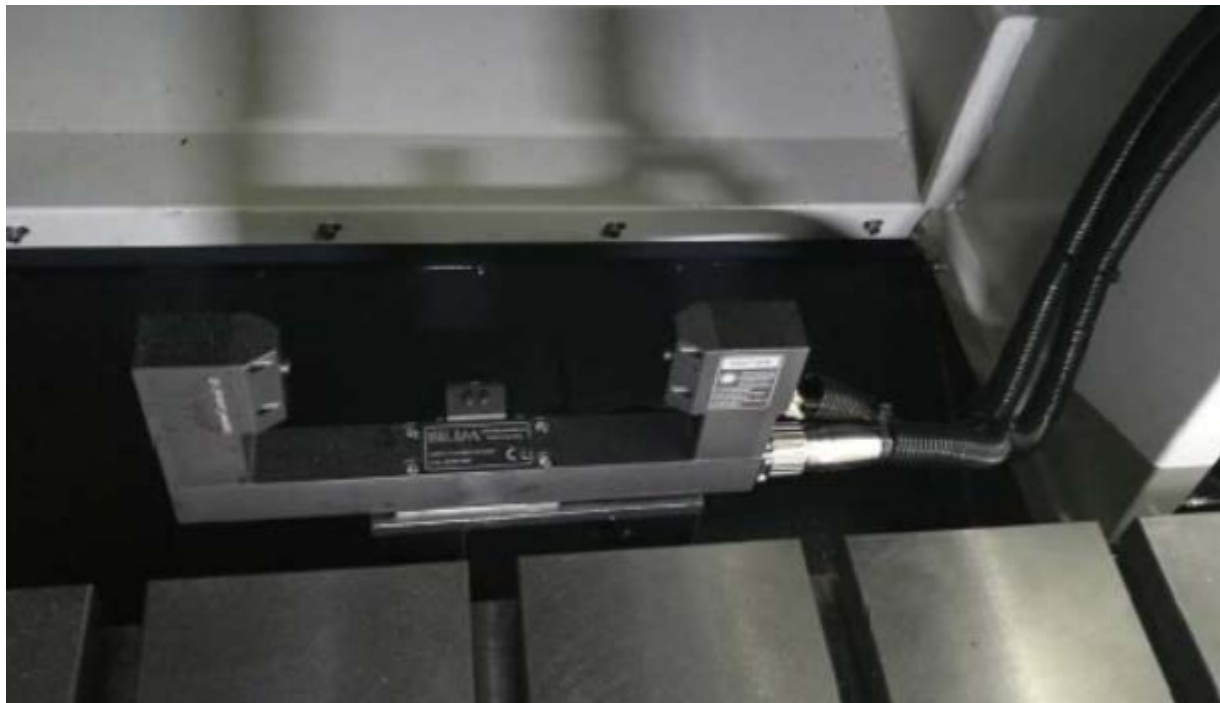
Option configuration - Spindle annular spray cooling & Tool center water outlet



Spindle annular spray cooling



Tool center water outlet



1. **Non contact setting for rotating and non rotating tools;**
2. **Monitor the runout error of high speed rotating tool;**
3. **Accurate damage monitoring in rapid positioning;**
4. **Single cutting edge damage monitoring;**
5. **Temperature drift compensation of machine tool axis (horizontal axis);**
6. **Measure the runout value (analog quantity) of the rotating shaft in a non-contact way.**



1. **Workpiece measurement;**
2. **Radio transmission;**
3. **Omnidirectional probe;**
4. **Wear free measuring mechanism;**
5. **Compensation for temperature drift of machine tool axis (three axes);**
6. **3D profile measurement (additional software support).**



Mould Name: casting aluminum mould

Material: hot working die steel H13

Application: engine, gearbox, etc

Main process: rough machining (after heat treatment)

Cutter: D63R6 face milling cutter

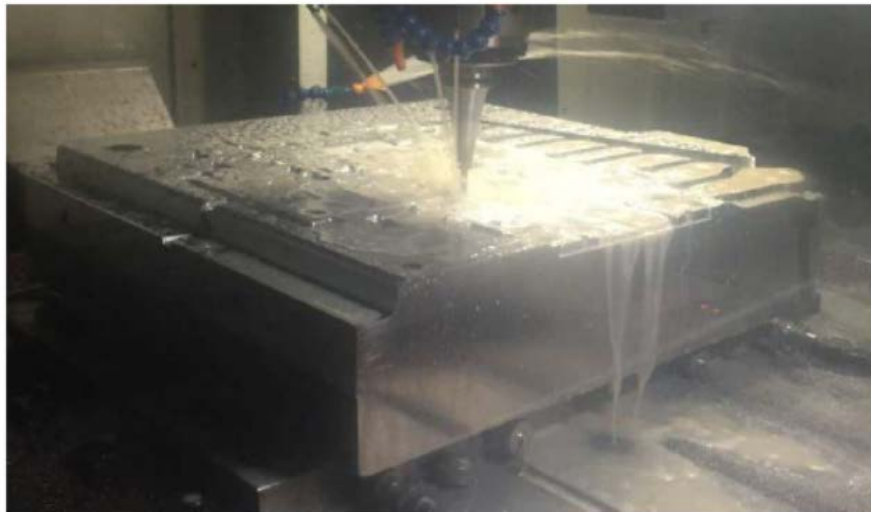
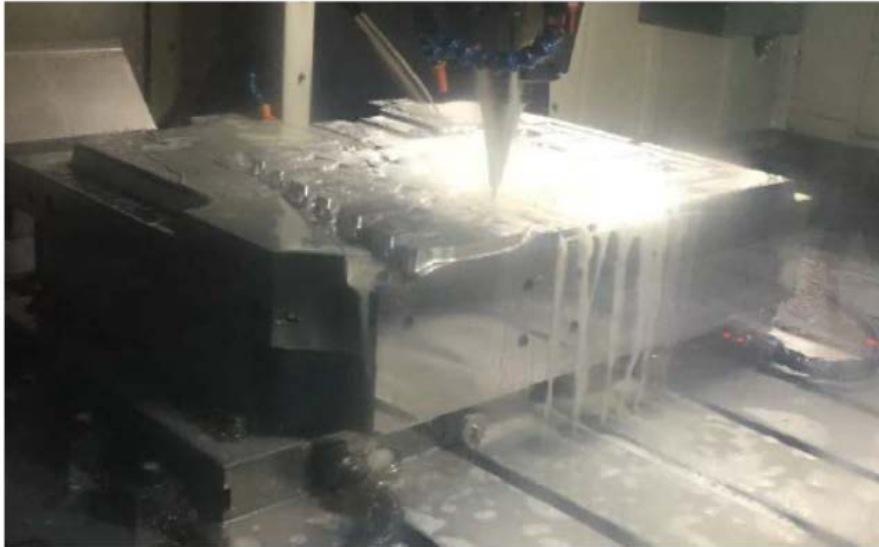
Speed: 1500rpm, **Feed:** 8000Step

Length: 45mm, **Cutting depth:** 0.65mm

Recommended model: Glue

Recommended configuration:

1. 8000 rpm motorized spindle;
2. Laser tool setting instrument;
3. 6Mpa central effluent;
4. Full protection with top.



Mould Name: casting aluminum mould

Material: hot work die steel dievar

Application: Automobile center control bracket, oil pan, gearbox, etc

Main process: polishing large noodles

Cutter: D12 ball cutter

Speed: 7000rpm, feed: 9000

Step length: 0.08mm

Recommended model: Glue

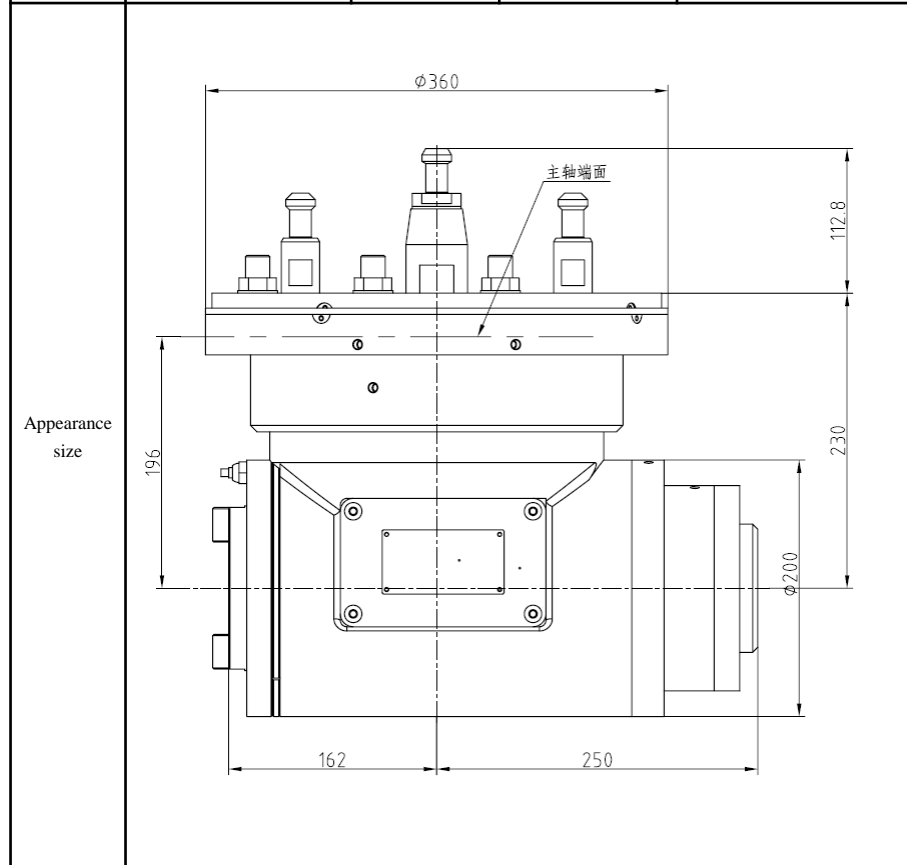
Recommended configuration:

- 1. 8000 rpm motorized spindle;**
- 2. Laser tool setting instrument**

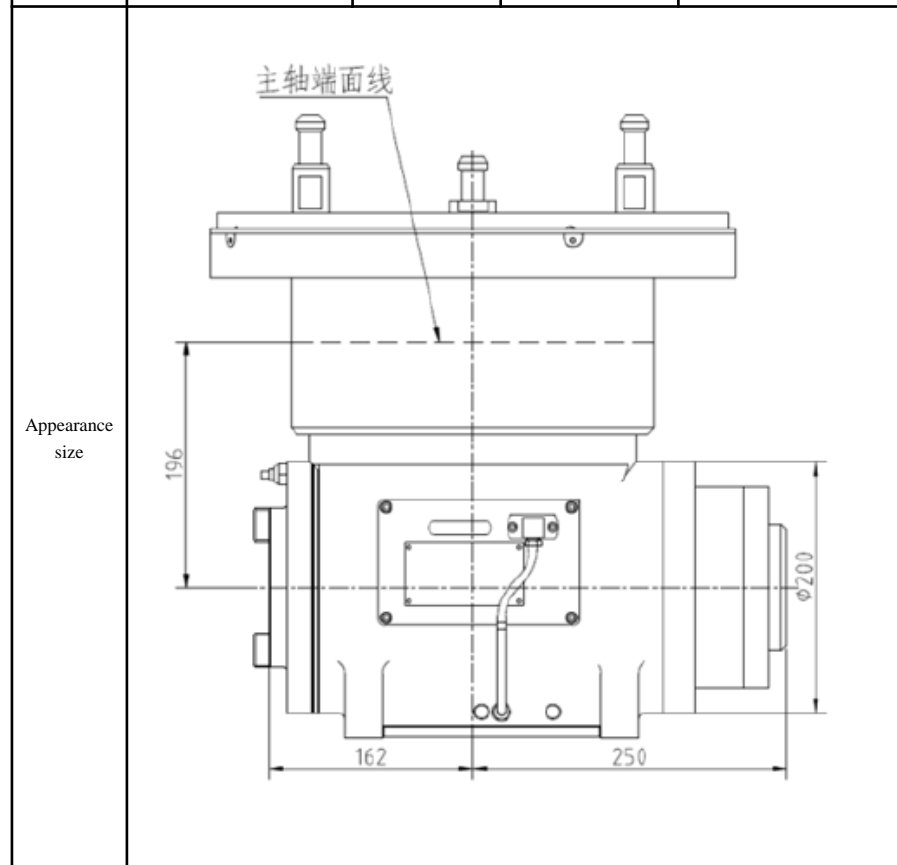
Option configuration - Auto milling head



Name	Major Function	Technical description		Remarks
Short nose automatic milling head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable for GLU, GLUe, GRUe II, GNUe models.
	Automatic transposition	Index value	5° (2.5°)	
	Automatic Tool clamping	maximum power	15KW	
	Automatic cooling water	Speed range	2000r/min	
	Nasal air curtain	Spindle taper	ISO 50	
	Center blowing of spindle	Maximum torque	500Nm	



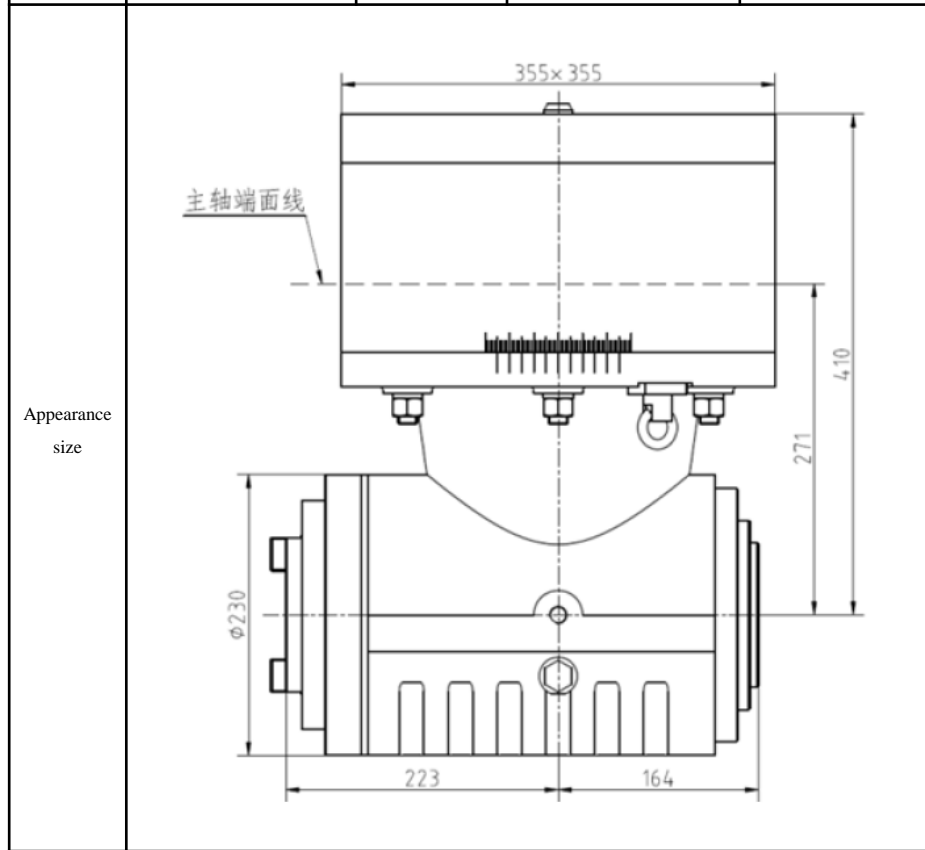
Name	Major Function	Technical description		Remarks
Short nose automatic milling head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable for GLU, GLUe, GRUe II, GNUe models.
	Automatic transposition	Index value	5° (2.5°)	
	Automatic Tool clamping	maximum power	15KW	
	Automatic cooling water	Speed range	4000r/min	
	Nasal air curtain	Spindle taper	ISO 50	
	Center blowing of spindle	Maximum torque	500Nm	



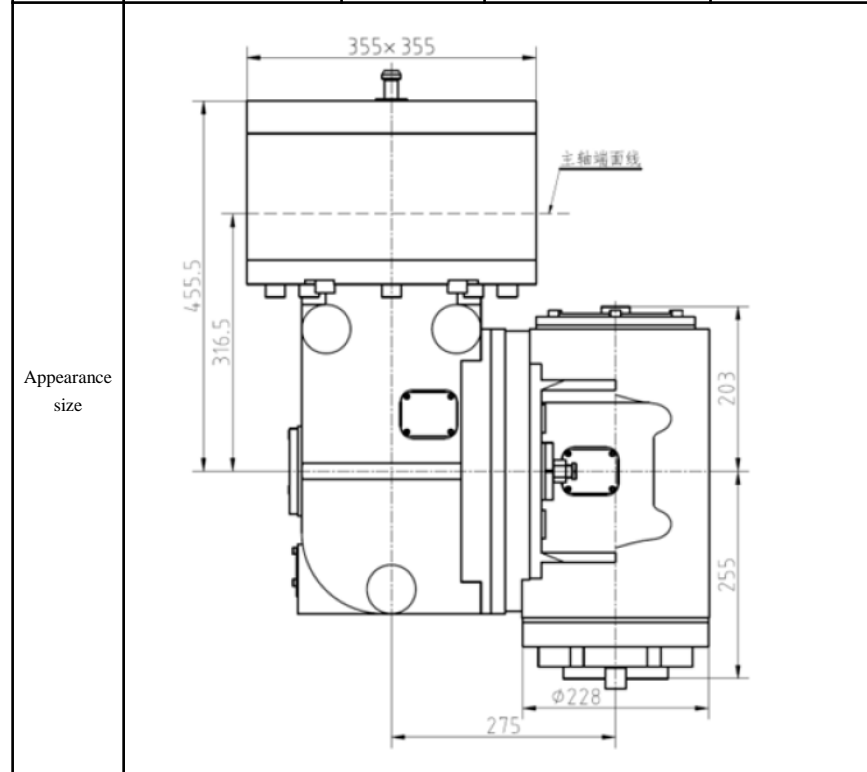
Option configuration - Manual milling head



Name	Major Function	Technical description		Remarks
Manual milling head	Manual head change Manual transposition	C-axis automatic indexing	360° rotation	It is suitable for GLU, GLUe, GRUe II, GNUe models.
		Location	Double pin positioning / 90°	
		maximum power	20KW	
		Speed range	2000r/min	
		Spindle taper	ISO 50	
		Maximum torque	800Nm	



Name	Major Function	Technical description		Remarks
Manual universal milling head	Manual head change Manual transposition	C-axis automatic indexing	360° rotation	It is suitable for GLU, GLUe, GRUe II, GNUe models.
		Location	Double pin positioning / 90°	
		maximum power	15KW	
		Speed range	1000r/min	
		Spindle taper	ISO 50	
		Maximum torque	1000Nm	
		A-axis manual indexing	± 90° rotation	
		Location	Ruler positioning	



Option configuration - Manual milling head



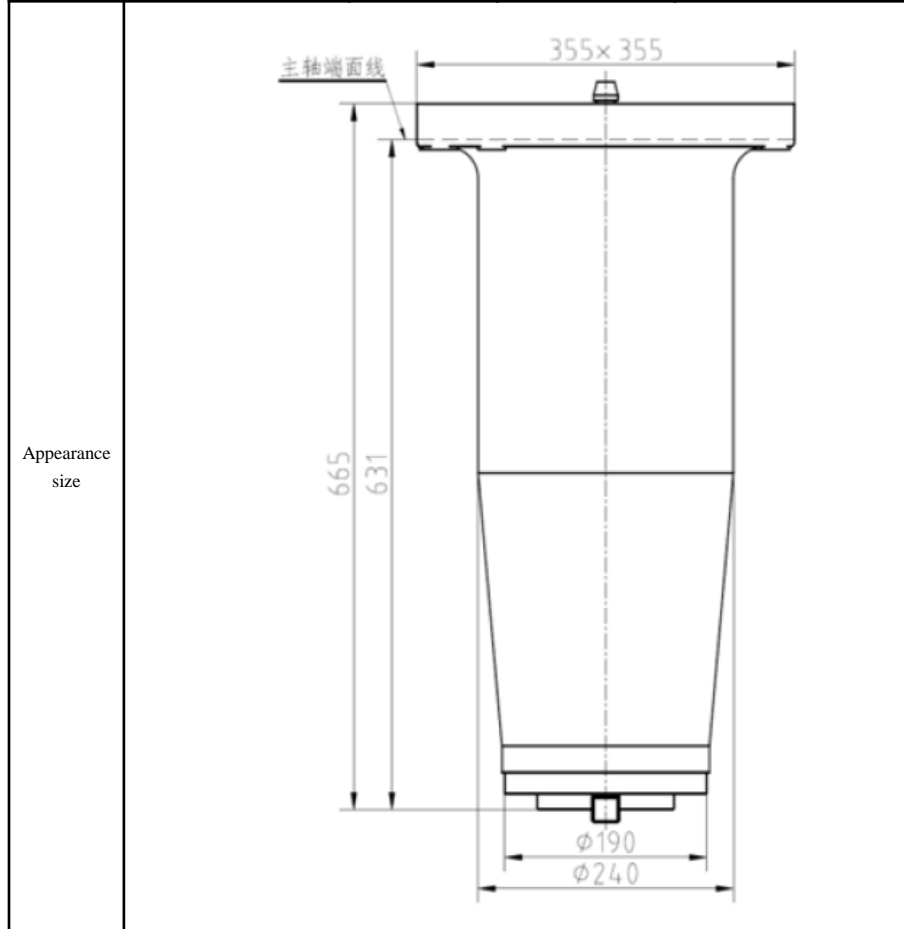
Name	Main function	Technical Parameters		Remarks
Manual 90° milling head	Manual head change Manual transposition	C axis manual indexing	360° rotation	It is suitable for GLU, above GLUe18, GRUe II, GNUe models
		Location	Double pin position/90°	
		Max. power	15KW	
		Max. speed	2000r/min	
		Spindle taper	ISO 50	
		Max. torque	800Nm	
Size				



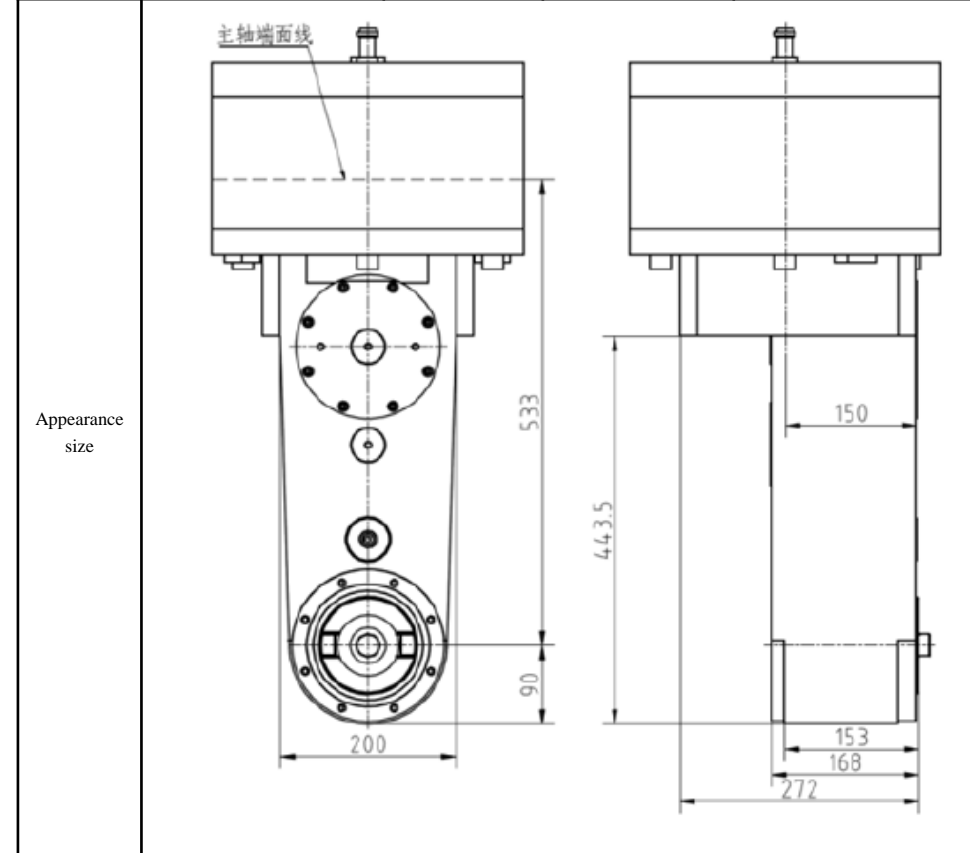
Option configuration - Manual milling head



Name	Major Function	Technical description		Remarks
Manual extending head	Manual head change	maximum power	15KW	It is suitable GLU、GLUe、GRUe II、GNUe models
		Speed range	1500r/min	
		Spindle taper	ISO 50	
		Maximum torque	1000Nm	



Name	Major Function	Technical description		Remarks
Manual narrow head	Manual head change Manual transposition	C-axis automatic indexing	360° rotation	It is suitable GLU、GLUe、GRUe II、GNUe models
		Location	Double pin positioning / 90°	
		maximum power	7.5KW	
		Speed range	800r/min	
		Spindle taper	ISO 50	
		Maximum torque	500Nm	





Head library

Note: choose B-type enclosure as option



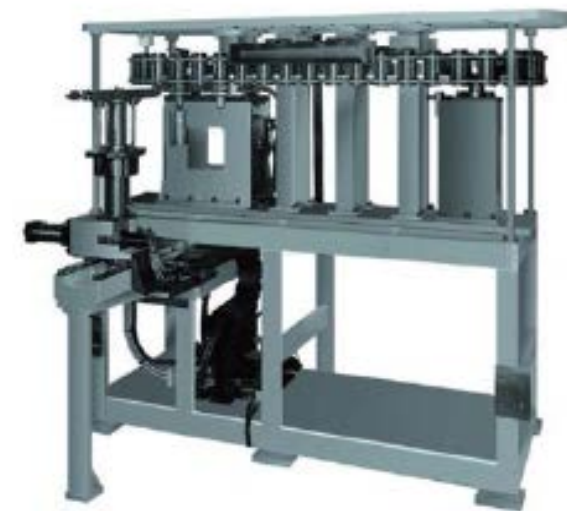
Vertical head library

Note: choose B-type enclosure as option



24T armless horizontal pushing type magazine

Note: BT40/HSK-A63 is optionalThe spindle can be matched at the same timeCorresponding to type B protection

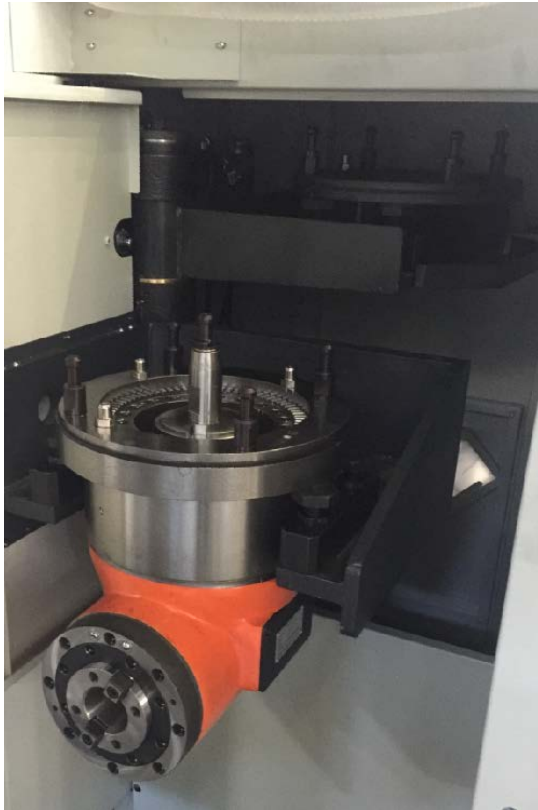


Vertical/horizontal head library

Note: choose B-type enclosure as option, full enclosure with top not available

Option configuration—Different head library

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Two station rotated
head library



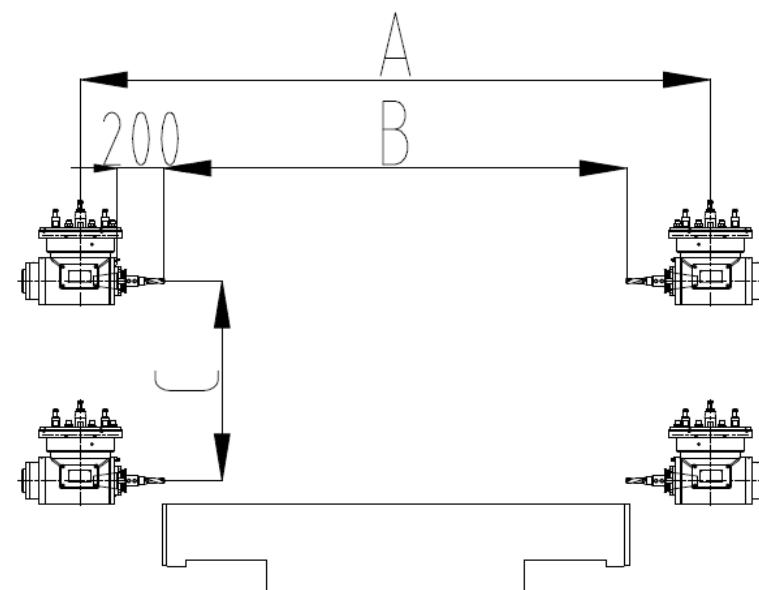
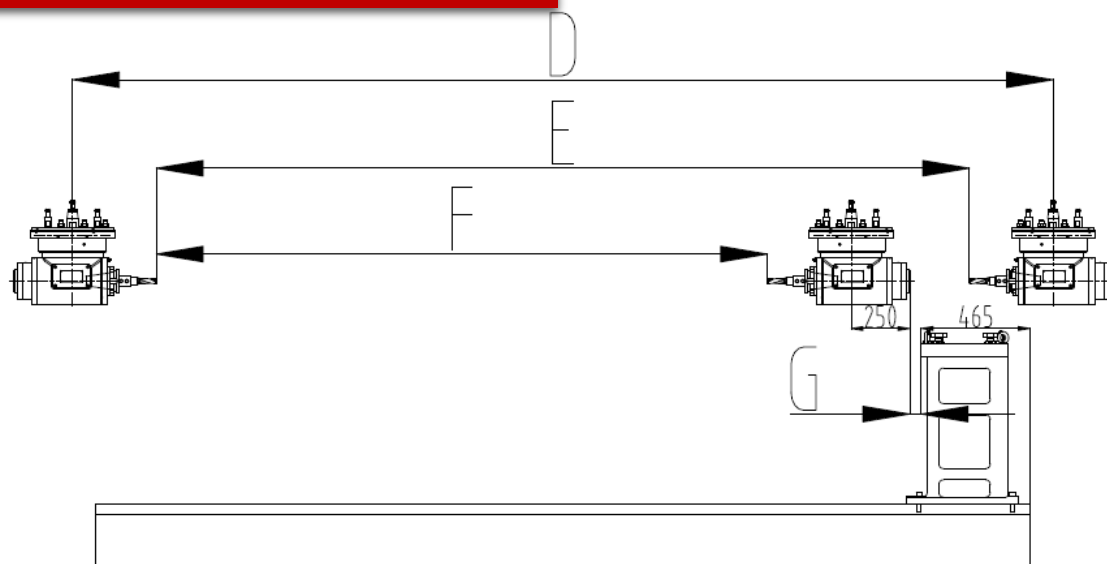
Two station table fixed
head library



Single shaft head library

Standard configuration		Option configuration	
1	Controller : FANUC 0i	1	Controller : FANUC 31i
2	HISION built-in spindle	2	SIEMENS 828D(Only for Purchased built-in spindle)
3	Spindle oil chiller	3	Germany Kessler(HSK-A63)20000rpm/24000rpm built-in spindle
4	Pneumatic, hydraulic and centralized lubrication system	4	HISION(BT40) 12000rpm built-in spindle
5	Simple splash guard	5	24 arm type ATC (Only with BT50 built-in spindle)
6	Internal Helix chip conveyor	6	24 armless ATC (Only with BT40、 HSK-A63 built-in spindle)
7	cutting cooling	7	Column heighten
8	3-color light, working light	8	Coolant through spindle(2-6MPa)
9	Standard attachments	9	Linear scale
10	Common maintain tools	10	CNC rotary table(4th)
11	External chain chip conveyor	11	Full enclosure
		12	Auto milling head (Only for 8000rpm built-in spindle)
		13	Two station auto rotated head library (Only for 8000rpm built-in spindle)
		14	Workpiece probe
		15	Tool probe
		16	Oil skimmer
		17	Water gun
		18	Air gun
		19	Air conditioner
		20	Z axis travel 1000mm

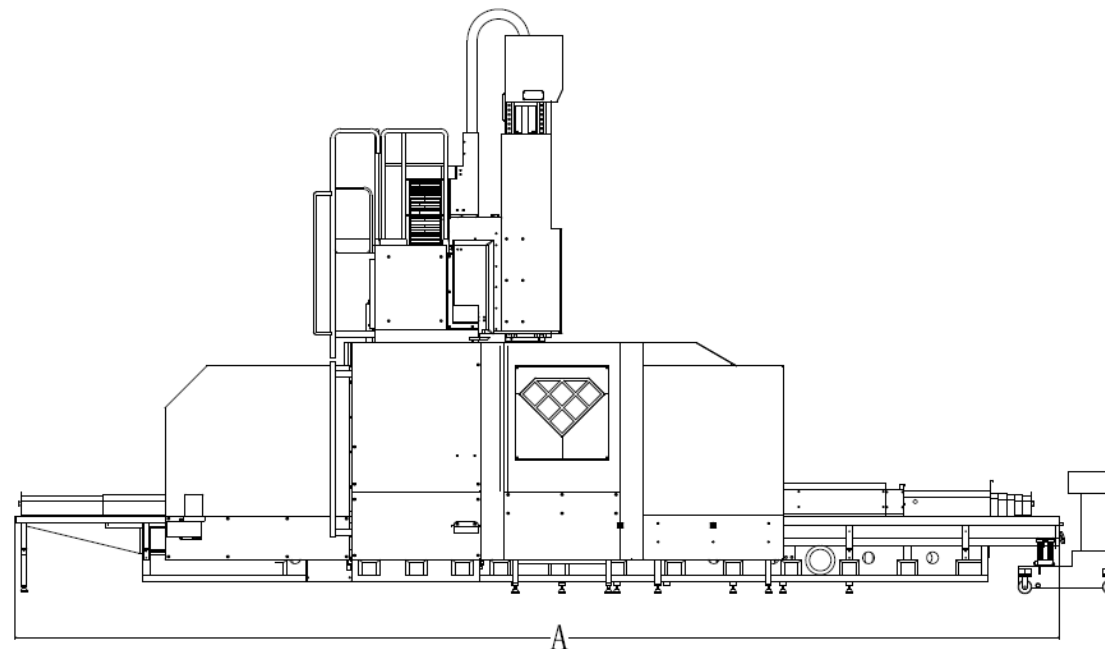
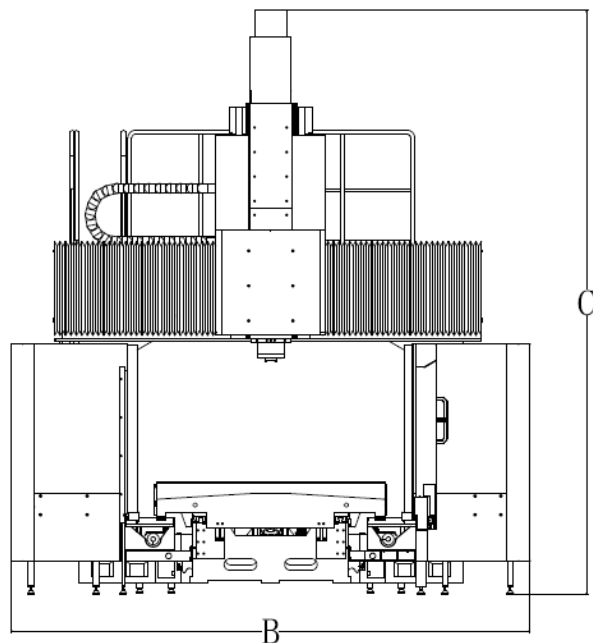
Processing scope with auto head



Model \ Size	Y axis travel A(mm)	Y axis processing scope B (mm)	Z axis processing scope C(mm)	X axis travel D(mm)	X axis processing scope E(mm)	X axis processing scope with head holder F(mm)	Safety scope G(mm)
GLUe18×30	1700	976	654	3200	2476	1611	50
GLUe23×30	2200	1476	654	3200	2476	1611	50
GLUe23×40	2200	1476	654	4200	3476	2611	50
GLUe28×30	2700	1976	654	3200	2476	1611	50
GLUe28×40	2700	1976	654	4200	3476	2611	50
GLUe28×50	2700	1976	654	5500	4776	3911	50
GLUe28×60	2700	1976	654	6500	5776	4911	50

Note: the tool length is 200mm

Machine size



Model \ Size	Length A(cm)	Width B(cm)	Height C(cm)
GLUe18×30	975	470	530
GLUe23×30	1050	475	530
GLUe23×40	1250	475	530
GLUe28×30	1050	530	530
GLUe28×40	1250	530	530
GLUe28×50	1500	530	530
GLUe28×60	1700	530	530

Note: Machine length A and width B do not include chip conveyor

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谢谢观看！

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