

安全第一 预防为主

GNU series Fixed crossrail Double Machining Center -Introduction

Description of machine characteristics

Main parameters :

HISON



Mode	GNU28	GNU32	GNU36	GNU42
X travel	3200mm、 4200mm、 5500mm、 6500mm	4200mm、 5500mm、 6500mm、 8500mm、 10500mm、 12500mm	5500mm、 6500mm、 8500mm、 10500mm、 12500mm	5500mm、 6500mm、 8500mm、 10500mm、 12500mm
Y travel	2800mm 3200mm (OP)	3200mm 3600mm (OP)	3600mm 4200mm (OP) 4600mm (OP)	4200mm 4600mm (OP) 5200mm (OP)
Z travel	1250m 1500mm (OP)	1250m 1500mm (OP)	1250m 1500mm (OP)	1250m 1500mm (OP)
Table width	2m、 2.5m(Two or three linear guideway are available)	2.5m	3m	3.5m
Table length	3m、 4m、 5m、 6m	4m、 5m、 6m、 8m、 10m、 12m	5m、 6m、 8m、 10m、 12m	5m、 6m、 8m、 10m、 12m
Gantry width	2800mm 3200mm (OP)	3200mm 3600mm (OP)	3600mm 4200mm (OP)	4200mm、 4600mm(OP)
Ram	450×450Square ram 500×500Square ram (Z-axis travel 1500mm) (OP)			
Spindle speed	8000rpm (12000rpm-BT40 , 20000/24000rpm-HSK-A63)			
Spindle power	26/45kW (18.5/22kW , 25/40kW , 16/24kW)			
Spindle torque	305/623N.m (95.5/167N.m , 87/135N.m , 67/100N.m)			

Machine parameter-GNU28×30



Item			Parameter	Item			Parameter
Processing	X travel	mm	3200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2800		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2800		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	150-1400		Max. tool weight	kg	25
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	0.018
Spindle	Driven system	-	Gear box	Repeatability position accuracy	Z axis	mm	0.015
	Spindle speed	rpm	3500		X axis	mm	0.012
	Spindle power	kW	30/37		Y axis	mm	0.015
	Spindle torque	Nm	1860/2300	Z axis	mm	0.010	
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	49
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1050×530×675
	X/Y/Z rapid feed	m/min	15/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	4200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2800		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2800		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	150-1400		Max. tool weight	kg	25
Table	Table (A×B)	mm	2000×4000		Position accuracy	Tool change time (T-T)	s
	Max. load	t	18	X axis		mm	0.020
	T slot	mm	22×200×9	Y axis		mm	0.018
Spindle	Driven system	-	Gear box	Repeatability position accuracy	Z axis	mm	0.015
	Spindle speed	rpm	3500		X axis	mm	0.015
	Spindle power	kW	30/37		Y axis	mm	0.015
	Spindle torque	Nm	1860/2300	Z axis	mm	0.010	
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	54
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1250×530×675
	X/Y/Z rapid feed	m/min	12/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	5500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2800		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2800		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	150-1400		Max. tool weight	kg	25
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	-	Gear box	Z axis		mm	0.015
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.018
	Spindle power	kW	30/37		Y axis	mm	0.015
	Spindle torque	Nm	1860/2300		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	63
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1500×530×675
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU28×60



Item			Parameter	Item			Parameter
Processing	X travel	mm	6500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	2800		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	2800		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	150-1400		Max. tool weight	kg	25
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	-	Gear box	Z axis		mm	0.015
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.020
	Spindle power	kW	30/37		Y axis	mm	0.015
	Spindle torque	Nm	1860/2300		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	70
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1700×530×675
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	4200	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	25
Table	Table (A×B)	mm	2500×4000		Tool change time (T-T)	s	2.9/4
	Max. load	t	20		Position accuracy	X axis	mm
	T slot	mm	28×200×12	Y axis		mm	0.020
Spindle	Driven system	-	Gear box	Z axis		mm	0.015
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.015
	Spindle power	kW	30/37		Y axis	mm	0.018
	Spindle torque	Nm	1860/2300		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	64
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1250×580×695
	X/Y/Z rapid feed	m/min	12/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	5500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	25
Table	Table (A×B)	mm	2500×5000		Tool change time (T-T)	s	2.9/4
	Max. load	t	25		Position accuracy	X axis	mm
	T slot	mm	28×200×12	Y axis		mm	0.020
Spindle	Driven system	-	Gear box	Z axis		mm	0.015
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.018
	Spindle power	kW	30/37		Y axis	mm	0.018
	Spindle torque	Nm	1860/2300		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	72
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1500×580×695
	X/Y/Z rapid feed	m/min	12/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	6500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	25
Table	Table (A×B)	mm	2500×6000		Tool change time (T-T)	s	2.9/4
	Max. load	t	28		Position accuracy	X axis	mm
	T slot	mm	28×200×12	Y axis		mm	0.020
Spindle	Driven system	-	Gear box	Z axis		mm	0.015
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.020
	Spindle power	kW	30/37		Y axis	mm	0.018
	Spindle torque	Nm	1860/2300		Z axis	mm	0.010
	Taper hole	-	BT50	Machine voltage		kVA	65
	Ram section	mm	450×450	Machine weight		t	80
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1700×580×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter	
Processing	X travel	mm	8500	Tool magazine (OP)	Capacity	T	24/40	
	Y travel	mm	3200		Driven system	-	BT50	
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220	
	Gantry width	mm	3200		Max. tool length	mm	400	
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	25	
Table	Table (A×B)	mm	2500×8000		Position accuracy	Tool change time (T-T)	s	2.9/4
	Max. load	t	35			X axis	mm	0.032
	T slot	mm	28×200×12	Y axis		mm	0.020	
Spindle	Driven system	-	Gear box	Repeatability position accuracy	Z axis	mm	0.015	
	Spindle speed	rpm	3500		X axis	mm	0.022	
	Spindle power	kW	30/37		Y axis	mm	0.018	
	Spindle torque	Nm	1860/2300	Z axis	mm	0.010		
	Taper hole	-	BT50	Machine voltage		kVA	65	
	Ram section	mm	450×450	Machine weight		t	99	
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2300×580×695	
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i	

Item			Parameter	Item			Parameter
Processing	X travel	mm	10500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	20
Table	Table (A×B)	mm	2500×10000		Tool change time (T-T)	s	2.9/4
	Max. load	t	40		Position accuracy	X axis	mm
	T slot	mm	28×200×12	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	135
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2900×580×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU32×120



Item			Parameter	Item			Parameter
Processing	X travel	mm	12500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	250-1500		Max. tool weight	kg	20
Table	Table (A×B)	mm	2500×12000		Tool change time (T-T)	s	2.9/4
	Max. load	t	55		Position accuracy	X axis	mm
	T slot	mm	28×200×12	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	150
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	3200×580×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	5500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3600		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3600		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	25
Table	Table (A×B)	mm	3000×5000		Tool change time (T-T)	s	2.9/4
	Max. load	t	28		Position accuracy	X axis	mm
	T slot	mm	36×200×14	Y axis		mm	0.024
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.018
	Spindle power	kW	30/37		Y axis	mm	0.020
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	79
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1500×620×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	6500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3600		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3600		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	25
Table	Table (A×B)	mm	3000×6000		Tool change time (T-T)	s	2.9/4
	Max. load	t	35		Position accuracy	X axis	mm
	T slot	mm	36×200×14	Y axis		mm	0.024
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.020
	Spindle power	kW	30/37		Y axis	mm	0.020
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	87
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1700×620×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	8500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3600		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3600		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	25
Table	Table (A×B)	mm	3000×8000		Tool change time (T-T)	s	2.9/4
	Max. load	t	40		Position accuracy	X axis	mm
	T slot	mm	36×200×14	Y axis		mm	0.024
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.022
	Spindle power	kW	30/37		Y axis	mm	0.020
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	106
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2300×620×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU36×100



Item			Parameter	Item			Parameter
Processing	X travel	mm	10500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3600		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3600		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3000×10000		Tool change time (T-T)	s	2.9/4
	Max. load	t	50		Position accuracy	X axis	mm
	T slot	mm	36×200×14	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	135
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2900×620×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU36×120



Item			Parameter	Item			Parameter
Processing	X travel	mm	12500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	3600		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	3600		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3000×12000		Tool change time (T-T)	s	2.9/4
	Max. load	t	50		Position accuracy	X axis	mm
	T slot	mm	36×200×14	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	150
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	3200×620×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU42×50



Item			Parameter	Item			Parameter
Processing	X travel	mm	5500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	4200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	4200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3500×5000		Tool change time (T-T)	s	2.9/4
	Max. load	t	22		Position accuracy	X axis	mm
	T slot	mm	36×250×20	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.018
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	92
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1500×710×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU42×60



Item			Parameter	Item			Parameter
Processing	X travel	mm	6500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	4200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	4200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3500×6000		Tool change time (T-T)	s	2.9/4
	Max. load	t	22		Position accuracy	X axis	mm
	T slot	mm	36×250×20	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.022
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	102
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	1500×710×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Item			Parameter	Item			Parameter
Processing	X travel	mm	8500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	4200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	4200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3500×8000		Tool change time (T-T)	s	2.9/4
	Max. load	t	35		Position accuracy	X axis	mm
	T slot	mm	36×250×20	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.022
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	117
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2300×710×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU42×100



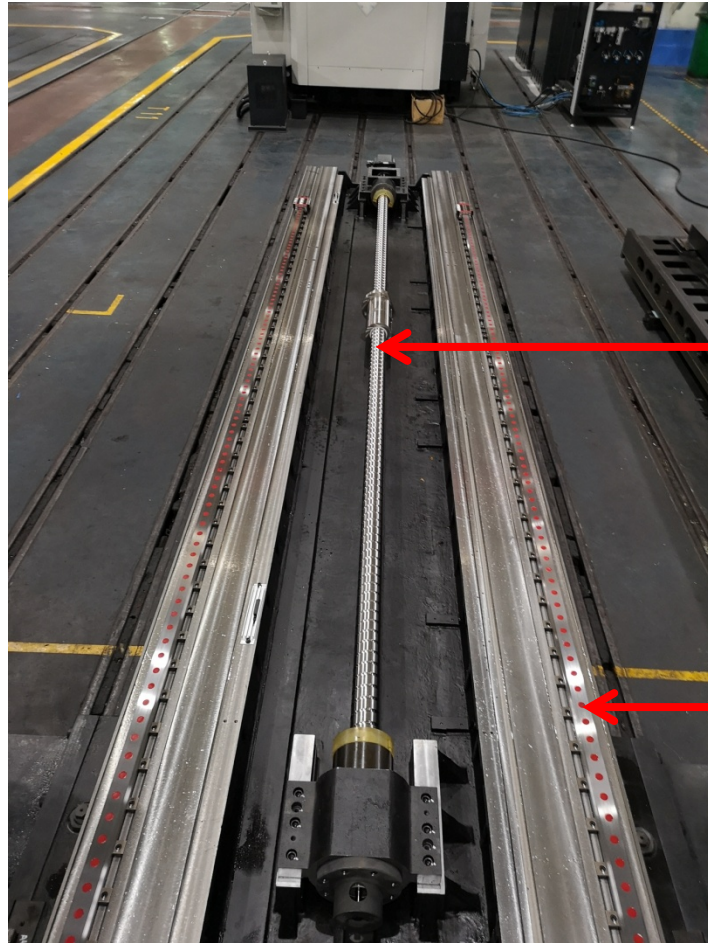
Item			Parameter	Item			Parameter
Processing	X travel	mm	10500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	4200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	4200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3500×10000		Tool change time (T-T)	s	2.9/4
	Max. load	t	45		Position accuracy	X axis	mm
	T slot	mm	36×250×20	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	135
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	2900×710×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Machine parameter-GNU42×120



Item			Parameter	Item			Parameter
Processing	X travel	mm	12500	Tool magazine (OP)	Capacity	T	24/40
	Y travel	mm	4200		Driven system	-	BT50
	Z travel	mm	1250		Max. tool dia. (full/empty adj. position)	mm	Φ110/Φ220
	Gantry width	mm	4200		Max. tool length	mm	400
	Distance between spindle center and table surface	mm	200-1450		Max. tool weight	kg	20
Table	Table (A×B)	mm	3500×12000		Tool change time (T-T)	s	2.9/4
	Max. load	t	55		Position accuracy	X axis	mm
	T slot	mm	36×250×20	Y axis		mm	0.028
Spindle	Driven system	-	Gear box	Z axis		mm	0.018
	Spindle speed	rpm	3500	Repeatability position accuracy	X axis	mm	0.030
	Spindle power	kW	30/37		Y axis	mm	0.022
	Spindle torque	Nm	1860/2300		Z axis	mm	0.012
	Taper hole	-	BT50	Machine voltage		kVA	80
	Ram section	mm	450×450	Machine weight		t	150
Feed	X/Y/Z feed	m/min	6/6/6	Machine size		cm	3200×710×695
	X/Y/Z rapid feed	m/min	10/15/10	Controller		-	FANUC 0i

Structural features - ball screw and linear guideway -X axis

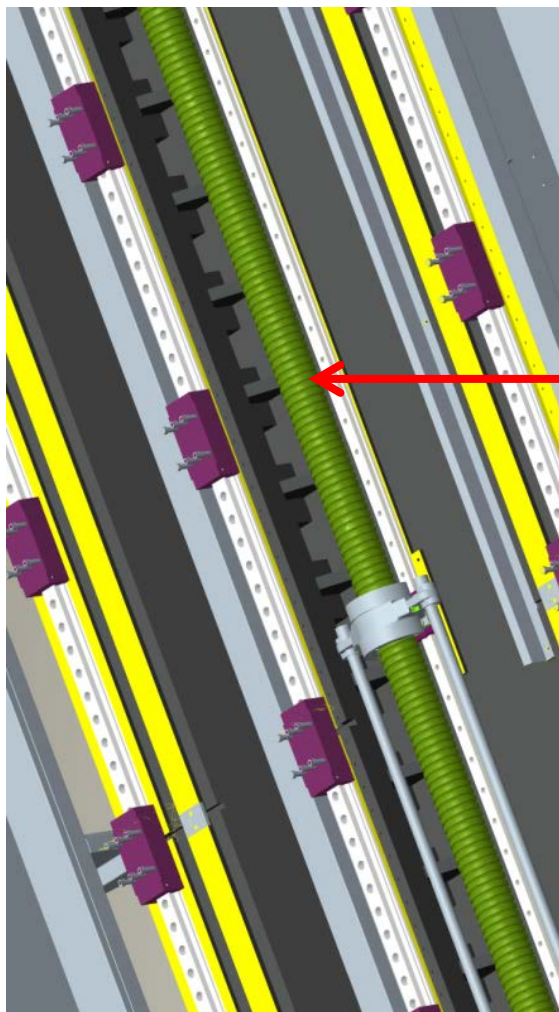


Span of linear guideway A

Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GNU28×30	63	30	C3	PMI
GNU28×40	80	30	C3	PMI
GNU28×50	80	40	C3	PMI
GNU28×60	80	40	C3	THK

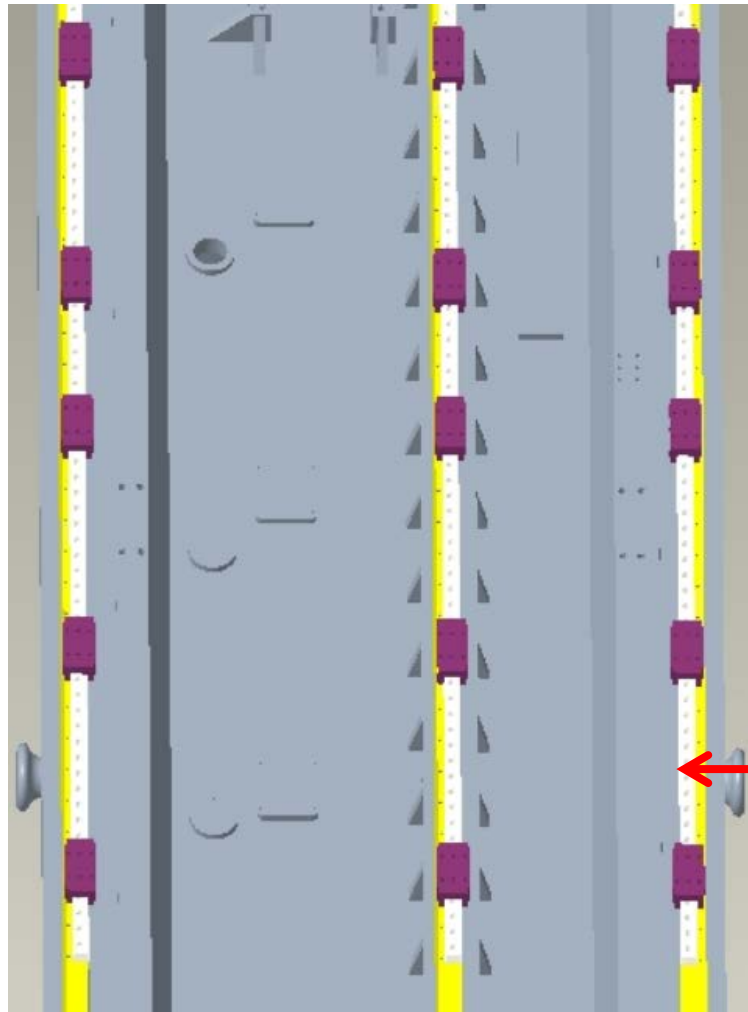
Model	Type	width (mm)	Slider type	precision level	No.	Span A(mm)	Brand
GNU28×30	MRS45	45	MRW45	G2	10	1200	SCHNEEBERGER
GNU28×40	MRS45	45	MRW45	G2	12	1200	SCHNEEBERGER
GNU28×50	MRS45	45	MRW45	G2	14	1200	SCHNEEBERGER
GNU28×60	MRS45	45	MRW45	G2	18	1200	SCHNEEBERGER

Structural features - ball screw and linear guideway -X axis



Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GNU32×40	80	40	C3	PMI
GNU32×50	80	40	C3	PMI
GNU32×60	80	40	C3	THK
GNU32×80	100	40	C3	SHUTO
GNU36×50	80	40	C3	PMI
GNU36×60	100	40	C3	THK
GNU36×80	100	40	C3	SHUTO
GNU42×50	80	40	C3	PMI
GNU42×60	100	40	C3	THK
GNU42×80	100	40	C3	SHUTO
GNU32/36/42×100	Rack and pinion			
GNU32/36/42×120	Rack and pinion			

Structural features - ball screw and linear guideway -X axis

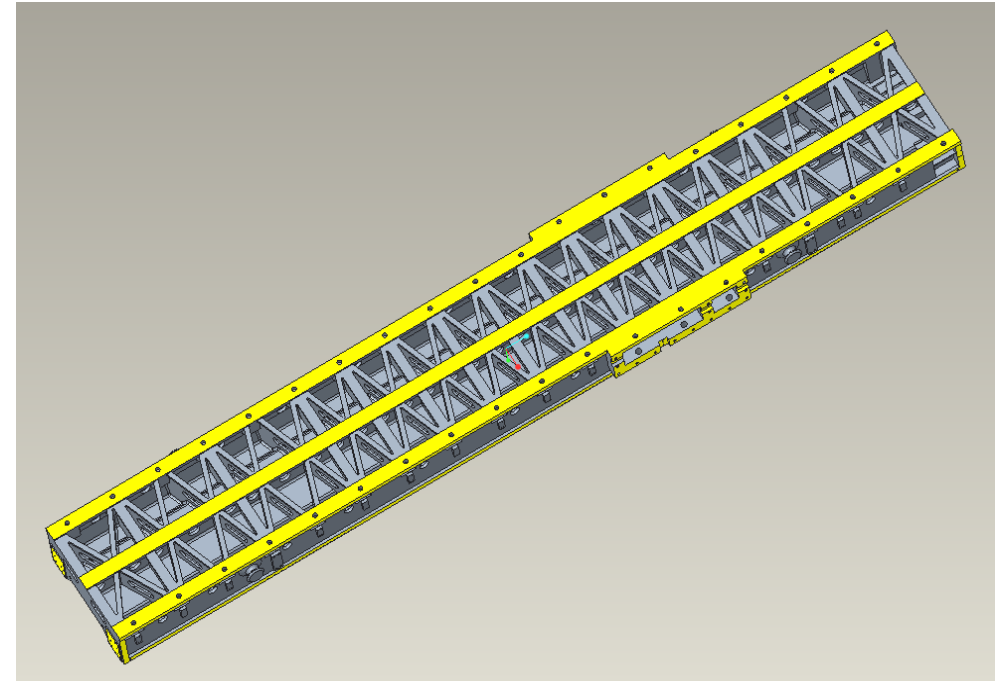


Span of linear guideway A

Model	Type	width (mm)	Slider type	preci on level	No.	Span A(mm)	Brand
GNU32×40	MRS45	45	MRW45	G2	10	1630	SCHNEEBERGER
GNU32×50	MRS45	45	MRW45	G2	10	1630	SCHNEEBERGER
GNU32×60	MRS45	45	MRW45	G2	12	1630	SCHNEEBERGER
GNU32×80	MRS45	45	MRW45	G2	10	1630	SCHNEEBERGER
GNU36×50	MRS45	45	MRW45	G2	12	1630	SCHNEEBERGER
GNU36×60	MRS45	45	MRW45	G2	14	1630	SCHNEEBERGER
GNU36×80	MRS45	45	MRW45	G2	18	1630	SCHNEEBERGER
GNU42×50	MRS55	53	MRW55	G2	12	1630	SCHNEEBERGER
GNU42×60	MRS55	53	MRW55	G2	14	1630	SCHNEEBERGER
GNU42×80	MRS55	53	MRW55	G2	18	1630	SCHNEEBERGER
GNU32/36/42×100	Rack and pinion						
GNU32/36/42×120	Rack and pinion						



The excellent rigidity makes GNU series machine bed have the advantage of load-bearing, which is nearly 20% higher than Taiwan machine tools of the same specifications.



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.



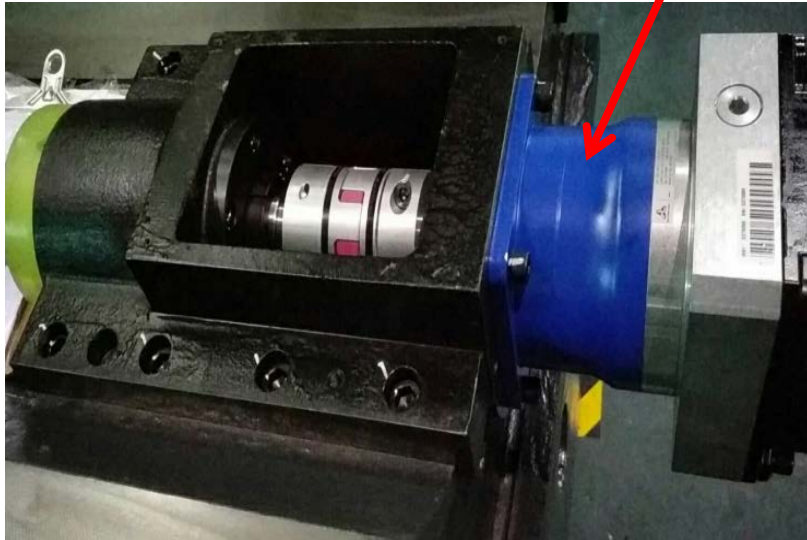
GNU series is equipped with 2.5m worktable, GNU32/36/42 and so on. The bed guide adopts three guide structures, and three groups of roller line rail sliders are densely distributed to support the workpiece load on average. The worktable maintains the best rigidity and flatness under the processing conditions of strong cutting at different loads and positions.



GNU28×50/60 and GNU32/36/42×50/60/80 bed X-axis rolling lead screws are equipped with follow-up auxiliary support. This technology solves the technical difficulties of positioning accuracy and load out of tolerance caused by gravity sag in the middle of the lead screw of large precision CNC gantry machining center, so as to improve the transmission accuracy.

Structural features -reducer

reducer



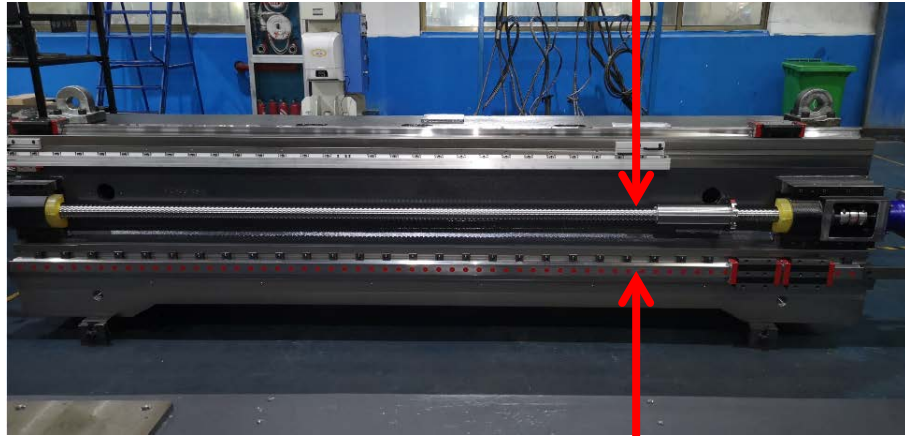
X/Y axis drive system adopts motor + reducer imported from Germany+ integral type motor base, which has better assembly precision. Compared with the motor + belt drive structure, this former has better rigidity

Belt drive mechanism

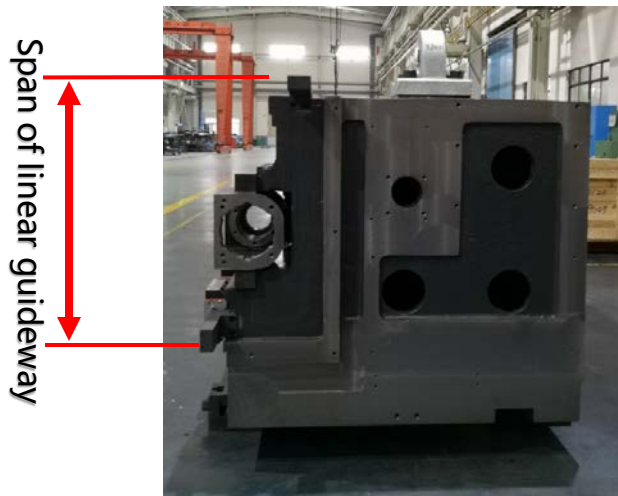


Motor + belt drive structure of other brands

Structural features - ball screw and linear guideway -Y axis



Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GNU28	63	30	C3	PMI
GNU32	63	30	C3	PMI
GNU36	80	40	C3	PMI
GNU42	80	40	C3	PMI
GNU42 (4600mm)	80	40	C3	PMI
GNU42 (5200mm)	80	40	C3	THK



Model	Type	width (mm)	Slider type	precision level	No.	Span A(mm)	Brand
GNU28	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GNU32	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GNU36	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GNU42	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GNU42 (4600mm)	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER
GNU42 (5200mm)	MRS55	53	MRW55	4	G2	623.5	SCHNEEBERGER



Arch way

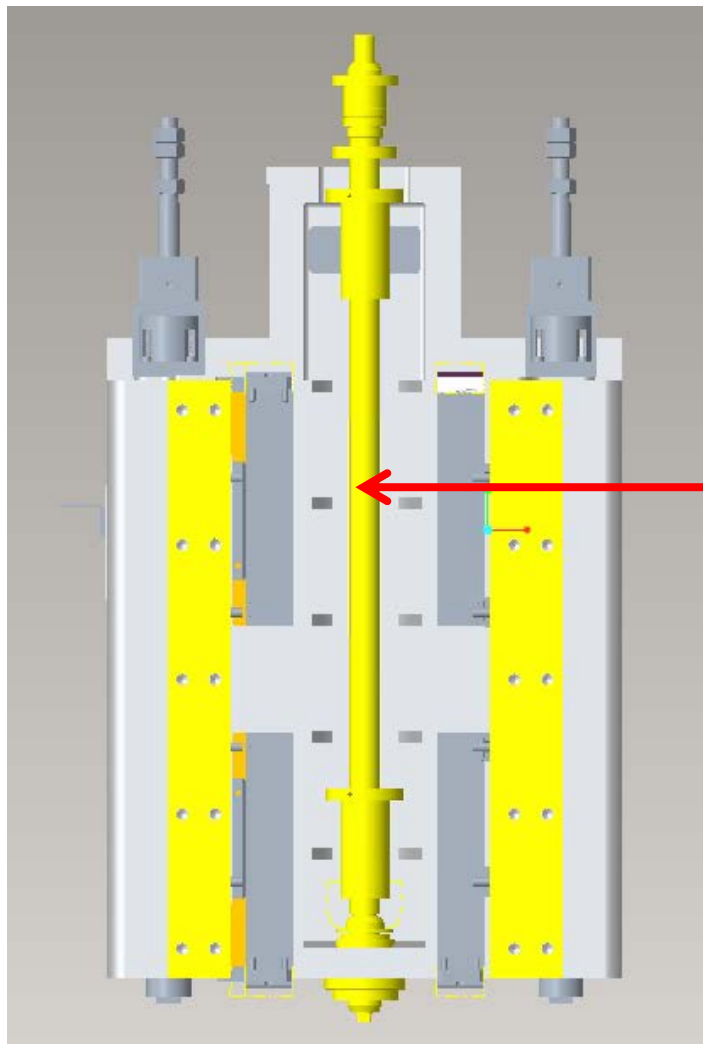


1010mm

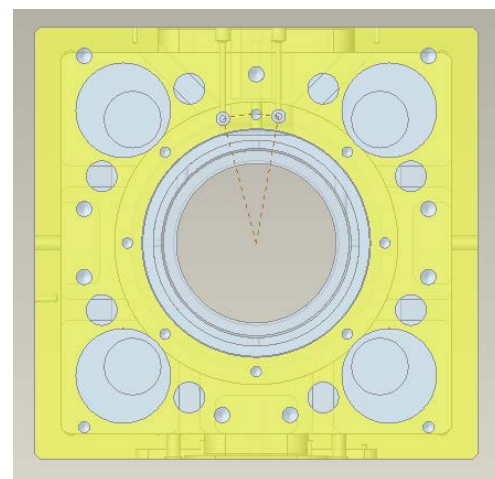
1. GNU36/42 Series beam uses 1010 width; at the same time, through mechanical design and finite element method, a new beam section and internal reinforcement are designed. At the same time, arch bridge mode and internal reinforcement are added. The perfect combination of the two makes the beam rigidity greatly improved.
2. GNU36 Series beams are arranged with 90 degree double track (schnaberger MR55 heavy duty roller guide rail) to give full play to the rigidity of the beam and the best rigidity of the track itself.
3. The transmission structure of large lead screw ($> 80\text{mm}$) + large reducer and the high rigidity of cross beam are more suitable for strong cutting.



Structural features - ball screw and linear guideway -Z axis



Model	Ball screw (mm)		Ball screw precision level	Brand
	Diameter	Pitch		
GNU28 Series	50	10	C3	PMI/THK
GNU32 Series	50	10	C3	PMI/THK
GNU36 Series	50	10	C3	PMI/THK
GNU42 Series	50	10	C3	PMI/THK



450
(500)

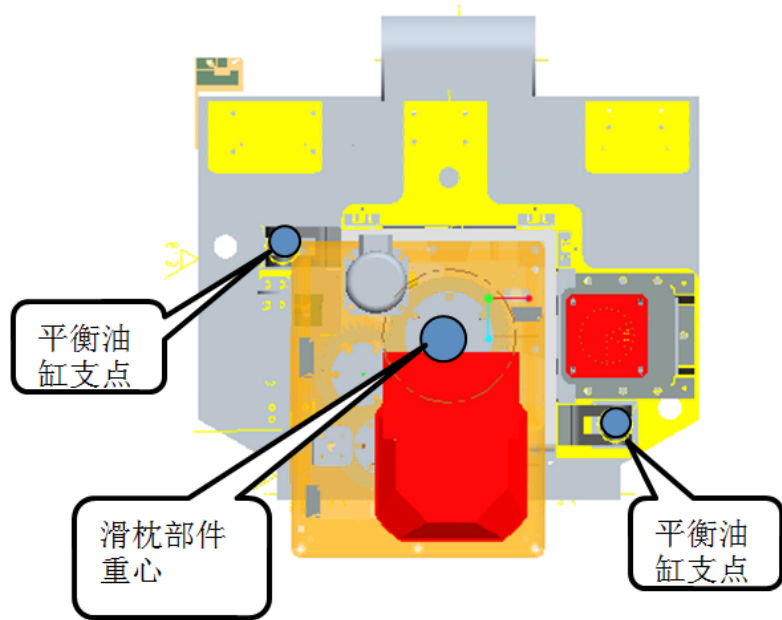


450
(500)

GNU series optimized 450 × 450 (500 × 500) square ram structure, 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 hardening sliding rail structure, strong lubrication system, with hydraulic double oil cylinder balance, the large section square ram structure has good seismic performance.

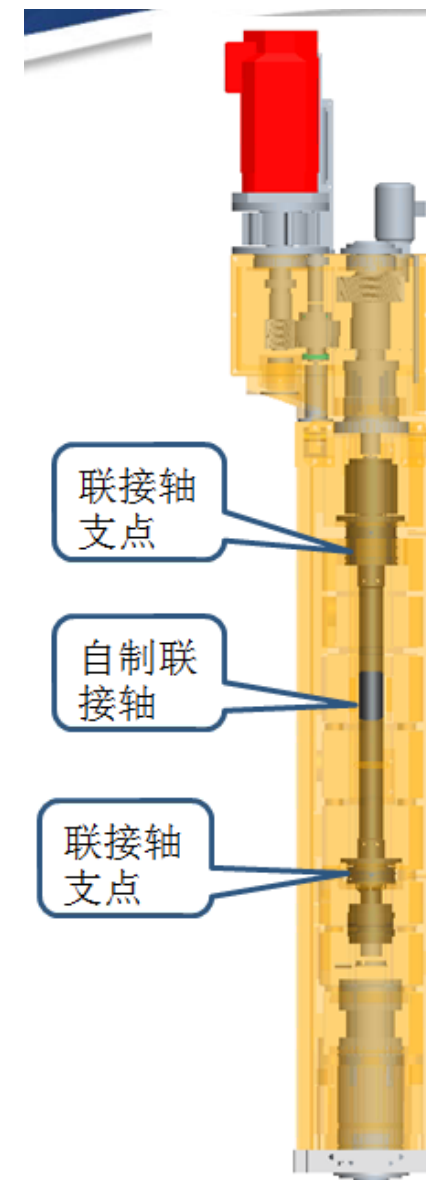
Structural features - saddle ram components

- ◆ The main transmission box of GNU series models adopts a three gear shifting structure, which is fast and convenient to shift, stable to rotate and low to noise. When the high and low gear shift is in place, the spring locking mechanism is added to make the shift more safe and reliable. The overall structure of the transmission box is compact and the appearance is exquisite.
- ◆ After the main motor decelerates through the gearbox, it is directly connected with the main shaft through the transmission shaft, so there is no need for other speed regulation links, and the torque output is more stable.



The two fulcrums of the balance cylinder are connected through the center of gravity of the ram. Following the concept of gravity drive, the ram moves up and down, eliminating the eccentric load torque of the guide rail, eliminating the vibration caused by the friction caused by the eccentric load torque of the ram guide rail, and increasing the machining accuracy of the machine tool.

HISON

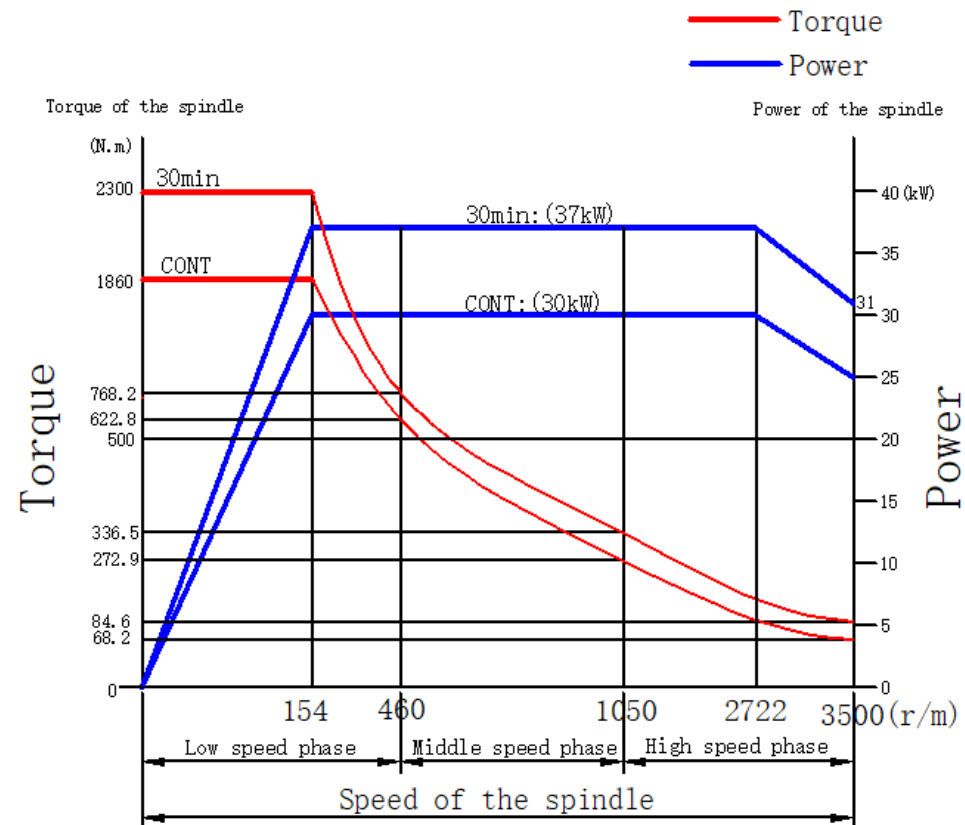
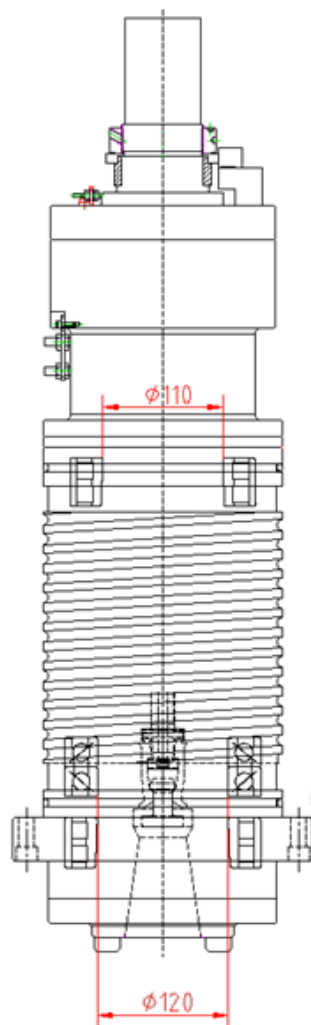


Structural features - saddle ram components



The self-made spindle is made of high-quality alloy steel, carburized and quenched. The bearing components of the spindle are imported high-precision double row cylindrical roller bearings, which are suitable for high torque cutting.

- 主轴锥孔: **BT50**
- 拉刀力: **18000N ± 10%**
- 最大扭矩: **1800Nm**,
短时超载**2300Nm**
- 最高转速: **3500rpm**
- 主轴上端轴承内径: **110mm**
- 主轴下端轴承内径: **120mm**



Power Torque Diagram

Structural features -transmission



HISON

Simple fixed shaft gear transmission structure, high reliability

Large module gear, large transmission shaft and large bearing are adopted

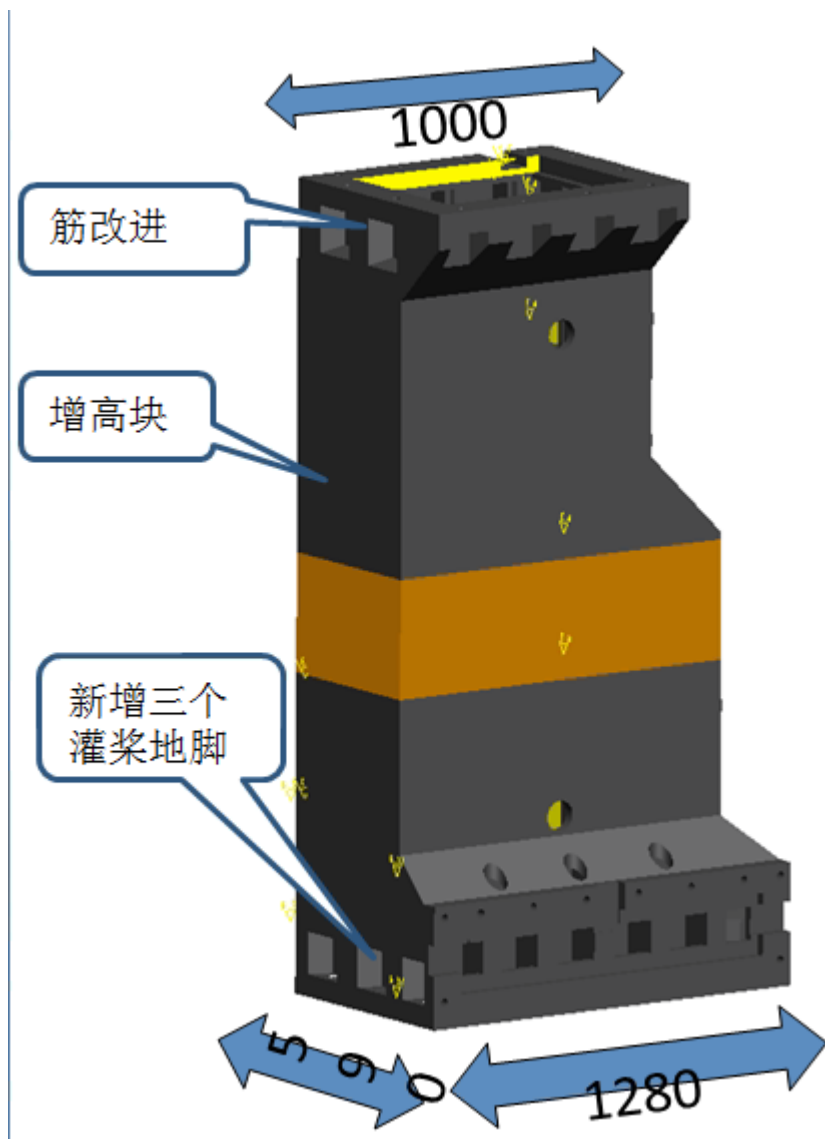


Other brands

Complex planetary gear transmission structure, high failure rate

Small module gear, small transmission shaft and small bearing are adopted





1. GNU series column, 1280 mm in width and 590 mm in thickness, adopts high-strength high-quality cast iron, resin sand molding, and reasonable internal reinforcement layout, fully meeting the support rigidity of beam components and saddle ram components.
2. According to the size characteristics of customers' parts, the column can be selected and heighten to meet the needs of parts processing.

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
GNU28×30	X	αiF 40/3000 FAN	9	53	130	GNU32×40	X	αiF 40/3000 FAN	9	53	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU28×40	X	αiF 40/3000 FAN	9	53	130	GNU32×50	X	αiF 40/3000 FAN	9	53	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU28×50	X	αiF 40/3000 FAN	9	53	130	GNU32×60	X	αiF 40/3000 FAN	9	53	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU28×60	X	αiF 40/3000 FAN	9	53	130	GNU32×80	X	αiF 40/3000 FAN	9	53	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	

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
GNU32×100	X	αiF 40/3000 FAN	9	53	130	GNU36×80	X	αiF 40/3000 FAN	9	53	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU32×120	X	αiF 40/3000 FAN	9	53	130	GNU36×100	X	αiF 40/3000	6	38	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU36×50	X	αiF 40/3000 FAN	9	53	130	GNU36×120	X	αiF 40/3000	6	38	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/8000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU36×60	X	αiF 40/3000 FAN	9	53	130						
	Y	αiF 40/3000	6	38	130						
	Z	αiF 40/3000	6	38	130						
	spindle	αiI 30/7000	30/37	249.1							

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
GNU42×50	X	αiF 40/3000 FAN	9	53	130	GNU42×120	X	αiF 40/3000	6	38	130
	Y	αiF 40/3000	6	38	130		Y	αiF 40/3000	6	38	130
	Z	αiF 40/3000	6	38	130		Z	αiF 40/3000	6	38	130
	spindle	αiI 30/7000	30/37	249.1			spindle	αiI 30/7000	30/37	249.1	
GNU42×60	X	αiF 40/3000 FAN	9	53	130						
	Y	αiF 40/3000	6	38	130						
	Z	αiF 40/3000	6	38	130						
	spindle	αiI 30/7000	30/37	249.1							
GNU42×80	X	αiF 40/3000 FAN	9	53	130						
	Y	αiF 40/3000	6	38	130						
	Z	αiF 40/3000	6	38	130						
	spindle	αiI 30/7000	30/37	249.1							
GNU42×100	X	αiF 40/3000	6	38	130						
	Y	αiF 40/3000	6	38	130						
	Z	αiF 40/3000	6	38	130						
	spindle	αiI 30/7000	30/37	249.1							

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)

Processing capacity

HISON



加工材料	45 号钢	主轴转速	300rpm	刀具	Φ 200 面铣刀
切削宽度	140mm	切削深度	5mm	滑枕伸出距离	680mm
进给速度	1200mm/min	金属去除率	840cm ³ /min	功率	28kW

加工材料	45 号钢	主轴转速	420rpm	刀具	Φ 63 玉米铣刀
切削宽度	60mm	切削深度	50mm	滑枕伸出距离	550mm
进给速度	180mm/min	金属去除率	540cm ³ /min	功率	24kW



加工材料	QT400	主轴转速	300rpm	刀具	Φ 200 面铣刀
切削宽度	140mm	切削深度	5mm	滑枕伸出距离	750mm
进给速度	800mm/min	金属去除率	560cm ³ /min	功率	23kW

加工材料	QT400	主轴转速	400rpm	刀具	Φ 63 玉米铣刀
切削宽度	60mm	切削深度	50mm	滑枕伸出距离	700mm
进给速度	300mm/min	金属去除率	900cm ³ /min	功率	25kW



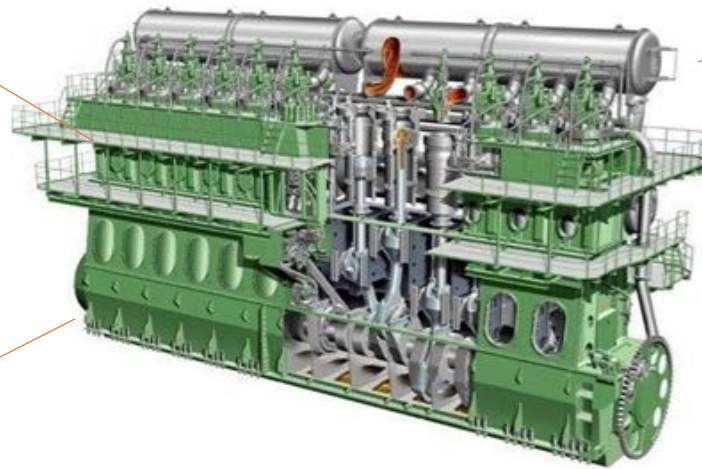
加工材料	45 号钢	主轴转速	300rpm	刀具	Φ 200 面铣刀
切削宽度	140mm	切削深度	5mm	滑枕伸出距离	770mm
进给速度	810mm/min	金属去除率	567cm ³ /min	功率	22kW

加工材料	45 号钢	主轴转速	420rpm	刀具	Φ 63 玉米铣刀
切削宽度	60mm	切削深度	50mm	滑枕伸出距离	750mm
进给速度	120mm/min	金属去除率	360cm ³ /min	功率	21kW

Processing example -- Diesel Engine Industry



Organism



Piston

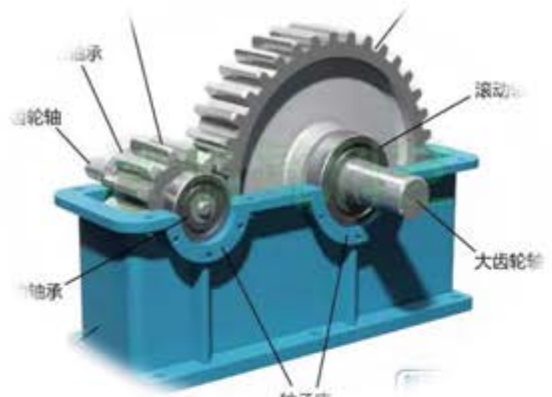


connecting rod



Crankshaft

Processing example -- wind power industry



减速箱体



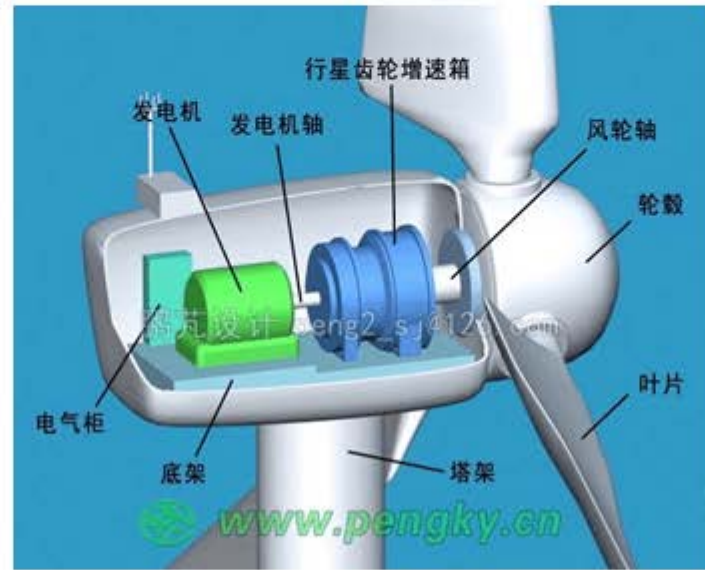
风轮轴



轮毂



轴承架



风力发电机主要构成



底座



局部防护



四周防护



带顶全防护

注：

- 1、GRU32（36）II × 80/100/120及GNU42系列只能配局部防护；
- 2、GNU28 × 30、 GNU28 × 40可配带顶全防护；
- 3、配中心出水时推荐配带顶防护；

Option configuration - enclosure

HISKON



Simple enclosure
(ST)



Full enclosure without top cover



Full enclosure with top cover

Note:

- 1、GNU32 (36) ×80/100/120 and GNU42 Series can only be equipped with local protection;
- 2、GNU28×30、 GNU28×40 can be equipped with full protection with top ;
- 3、Top protection is recommended when water comes out of distribution center ;

Option configuration - Milling head

HISON



The whole structure is compact and the interference space is small

Three section puller cylinder

When the c-axis is rotated, the disengaging stroke of the tooth disc is large, and the reliability of the accessory head is high

Optional tool center water outlet

The maximum speed is 4000rpm



Other brands

The overall structure is large and the interference space is large

Two stage pulling head cylinder, hydraulic pressure retaining to realize positioning tooth disc locking c-axis

The internal tooth disc of the accessory head is positioned, the disengaging stroke of the tooth disc is small, and the reliability of the accessory head rotation is low

No optional tool center water outlet

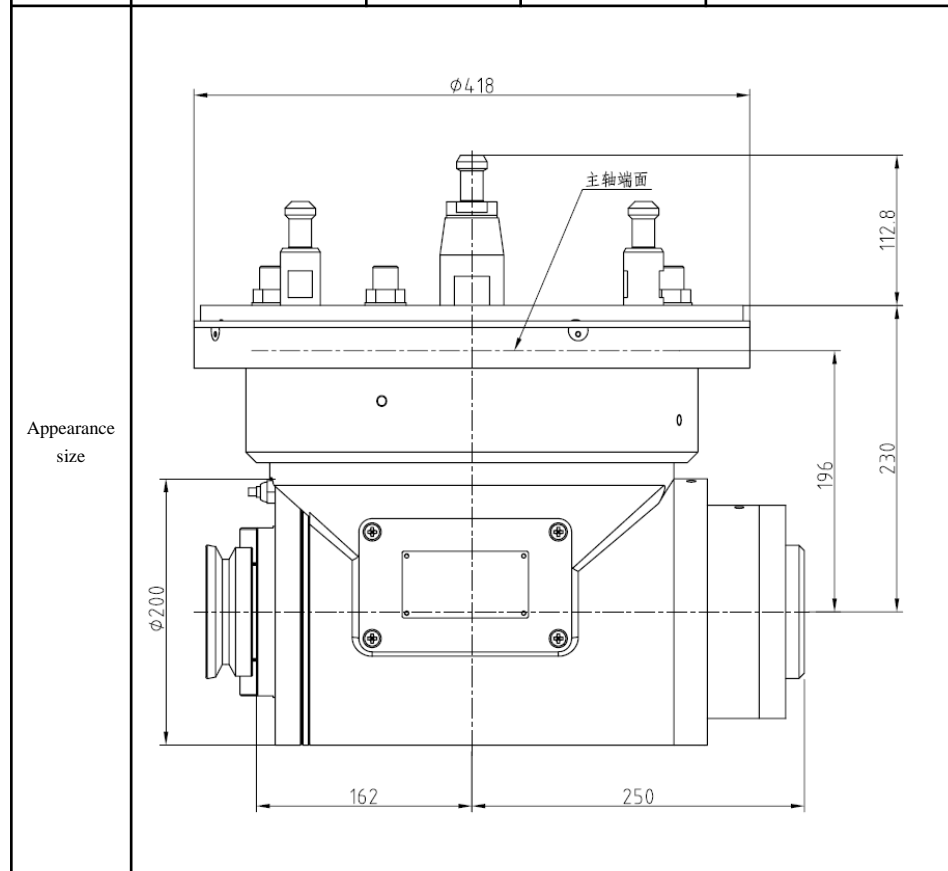
The maximum speed is 2000rpm



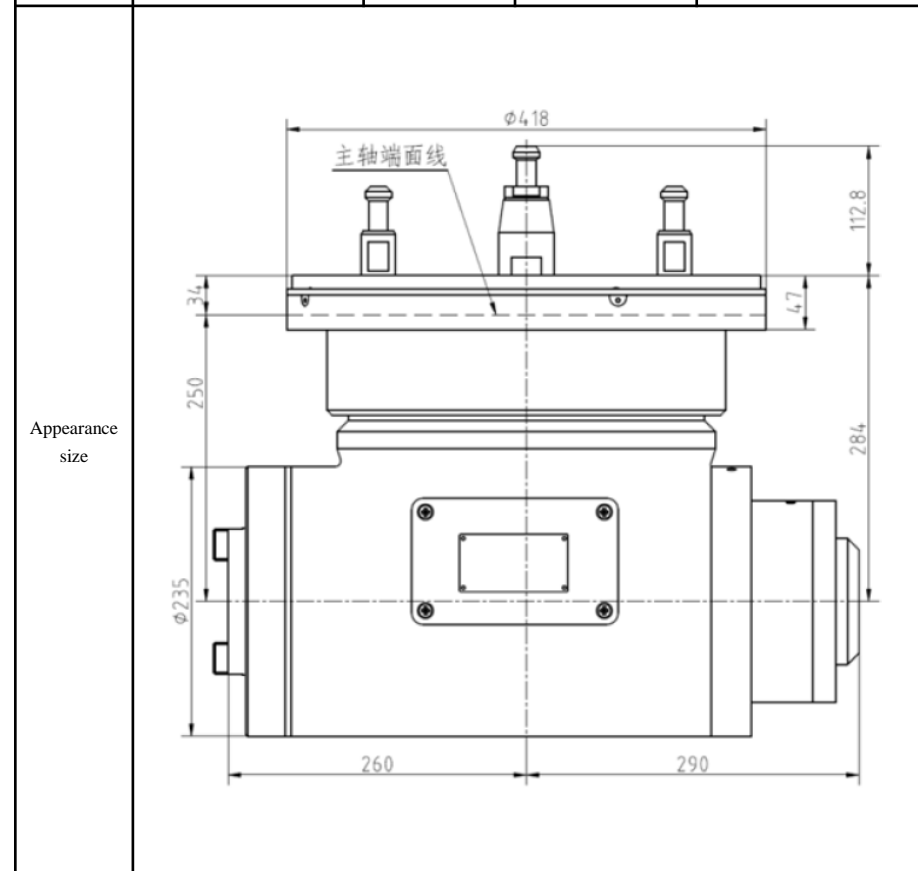
Option configuration - Auto milling head



Name	Major Function	Technical description		Remarks
Short nose automatic milling head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable GRU II、GRUE、GNU、GZU 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	



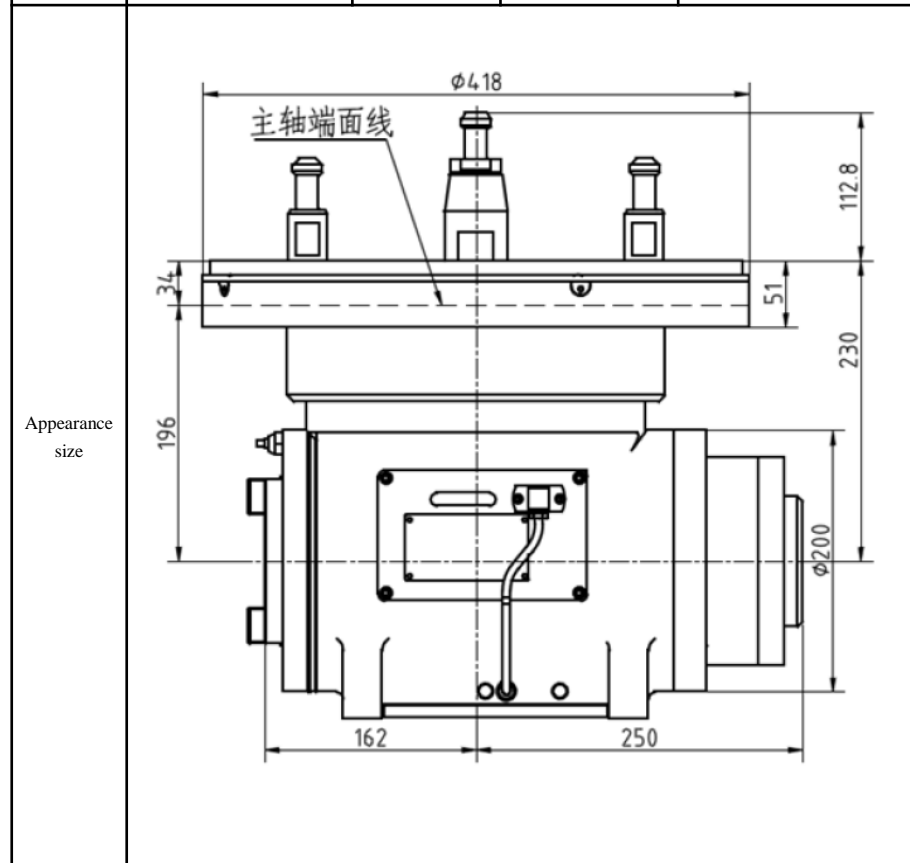
Name	Major Function	Technical description		Remarks
Short nose automatic milling head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable GRU II、GRUE、GNU、GZU models.
	Automatic transposition	Index value	5° (2.5°)	
	Automatic Tool clamping	maximum power	25KW	
	Automatic cooling water	Speed range	2000r/min	
	Nasal air curtain	Spindle taper	ISO 50	
	Center blowing of spindle	Maximum torque	1500Nm	



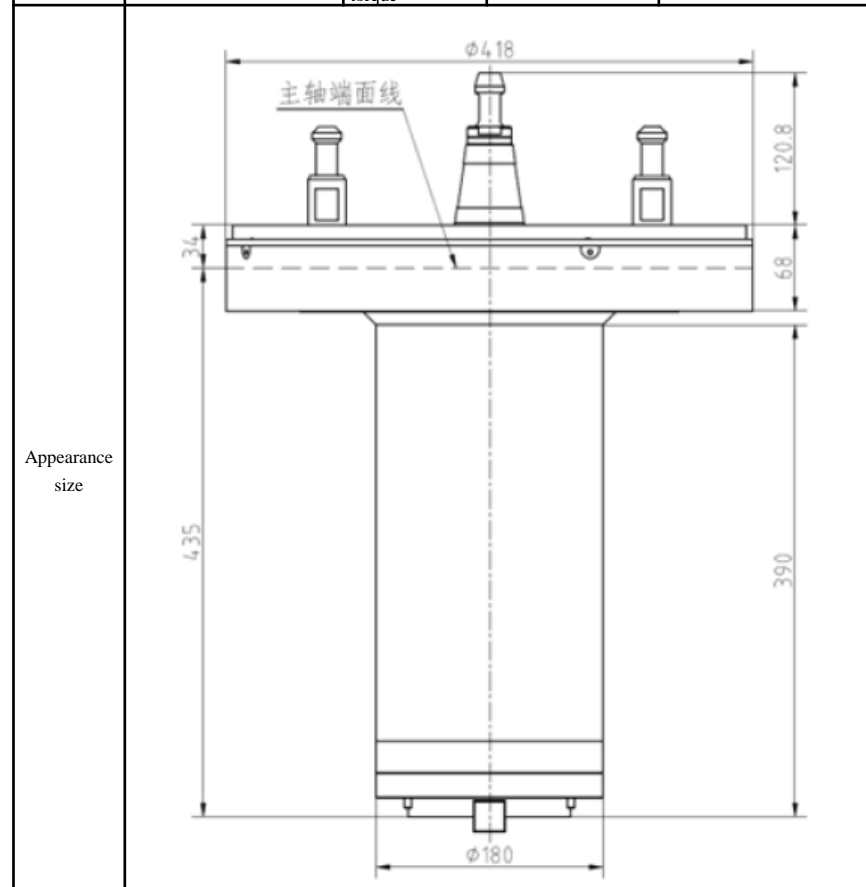
Option configuration - Auto milling head



Name	Major Function	Technical description		Remarks
Short nose automatic milling head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable GRU II、GRUE、GNU、GZU 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	



Name	Major Function	Technical description		Remarks
Short nose automatic extending head	Automatic head change Automatic transposition	maximum power	15KW	It is suitable GRU II、GRUE、GNU、GZU models.
		Index value	5° (2.5°)	
		Speed range	3500r/min	
		Spindle taper	ISO 50	
		Maximum torque	600Nm	



Option configuration - Auto milling head



Name	Major Function	Technical description		Remarks
Short nose automatic narrow head	Automatic head change Automatic transposition	maximum power	15KW	It is suitable GRU II、GRUE、GNU、GZU models.
		Speed range	800r/min	
		Spindle taper	ISO 50	
		Maximum torque	600Nm	
Appearance size				

Name	Major Function	Technical description		Remarks	
Short nose automatic narrow head	Automatic head change	C-axis automatic indexing	360° rotation	It is suitable GRU II、GRUE、GNU、GZU models.	
		Index value	5° (2.5°)		
	Automatic transposition	maximum power	15KW		
		Speed range	2000r/min		
	C-axis automatic rotation	Spindle taper	ISO 50		
		Maximum torque	500Nm		
	Manual rotation of axis A	A-axis automatic indexing	±90° rotation (5° 一分)		
		Index value	Ruler positioning		
	Automatic cooling water				
					Center blowing of spindle
Appearance size					



Option configuration - Auto milling head



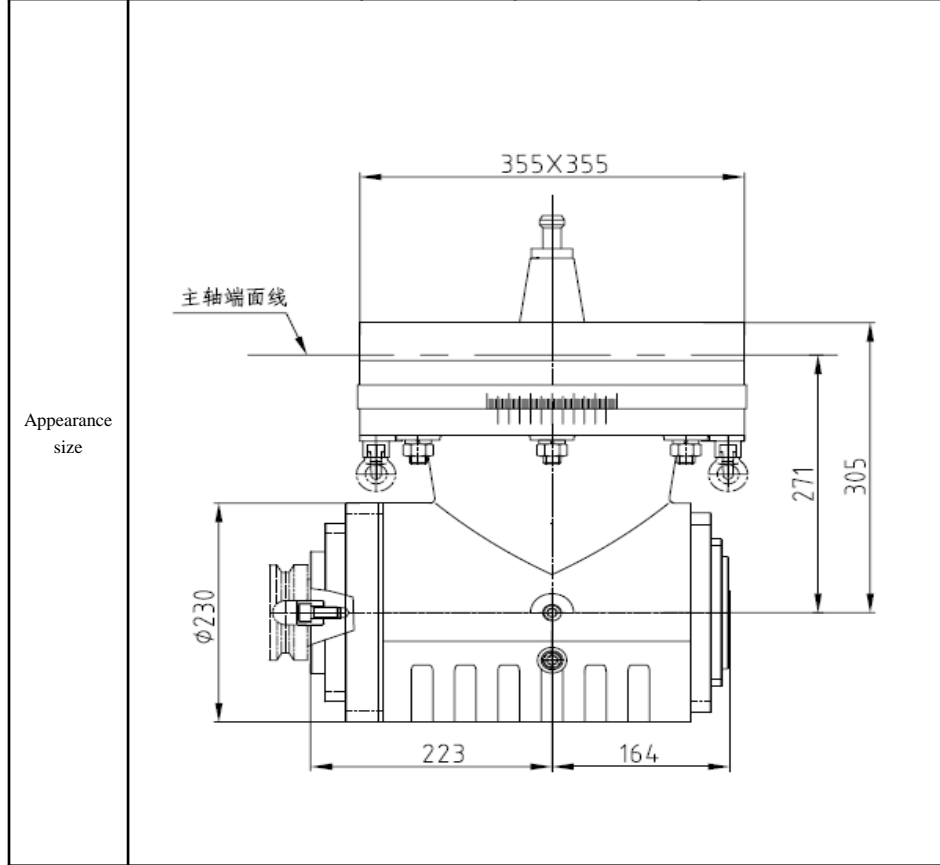
Name	Major Function	Technical description		Remarks
Automatic universal AC swing head	Automatic head change Automatic transposition A-axis automatic rotation C-axis automatic rotation Automatic cooling water Nasal air curtain Center blowing of spindle	C-axis rotation angle	0-360°	It is suitable GRU II、GRUE、GNU、GZU models.
		Minimum index value of axis C	5° (2.5°)	
		A-axis rotation angle	0-90°	
		Minimum index value of axis A	2.5° /1°	
		Locking mode of a / C axis	Toothed disc	
		Rated torque of spindle	600Nm	
		Maximum speed of spindle	4000rpm	
		Maximum power	15KW	
		Tool magazine type	ISO 50	
Appearance size				



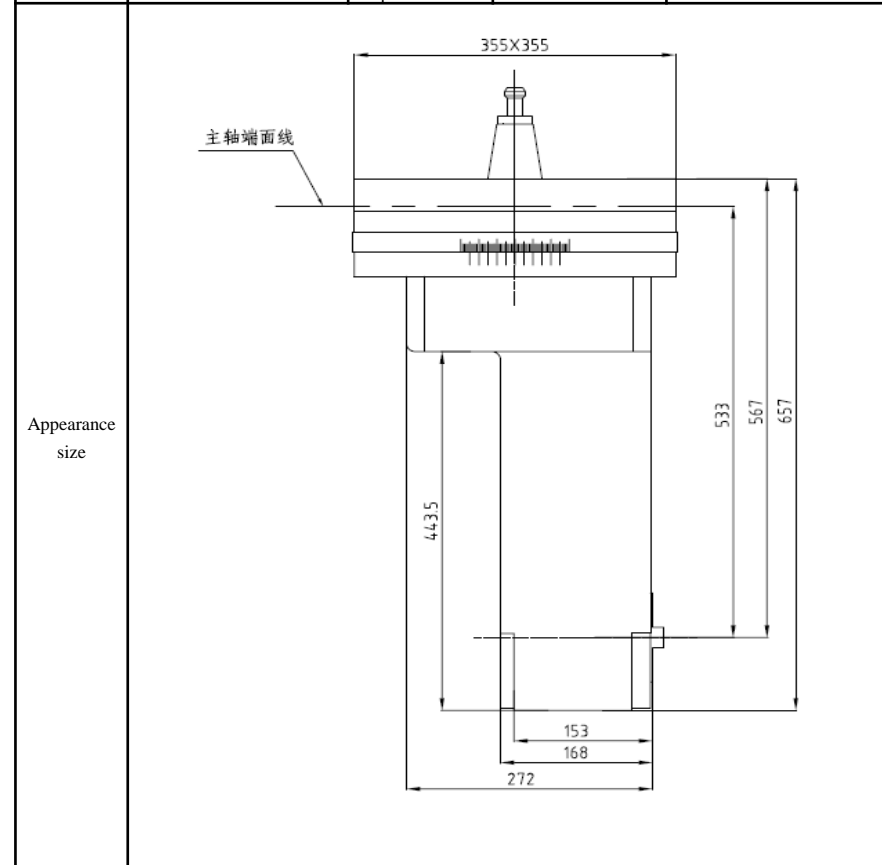
Option configuration - Manual milling head



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



Option configuration - Manual milling head



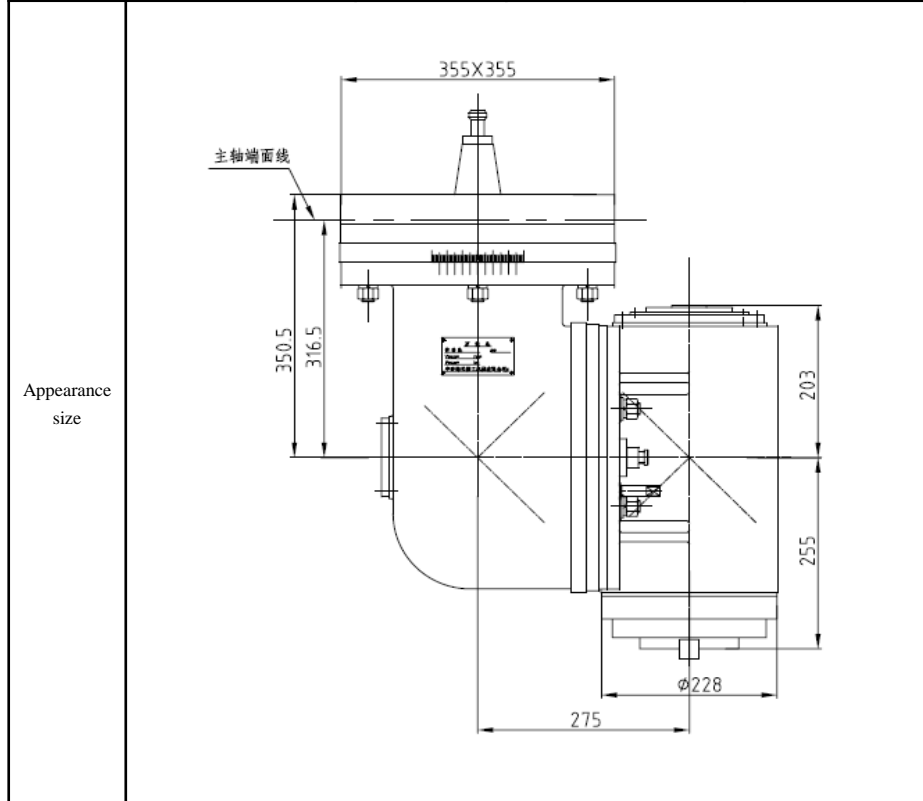
Name	Major Function	Technical description		Remarks
Manual milling head	Manual head change Manual transposition	C-axis automatic indexing	360° rotation	It is suitable GRU II、GRUE、GNU、GZU models.
		Location	Double pin positioning / 90°	
		maximum power	25KW	
		Speed range	2000r/min	
		Spindle taper	ISO 50	
		Maximum torque	800Nm	
Appearance size				



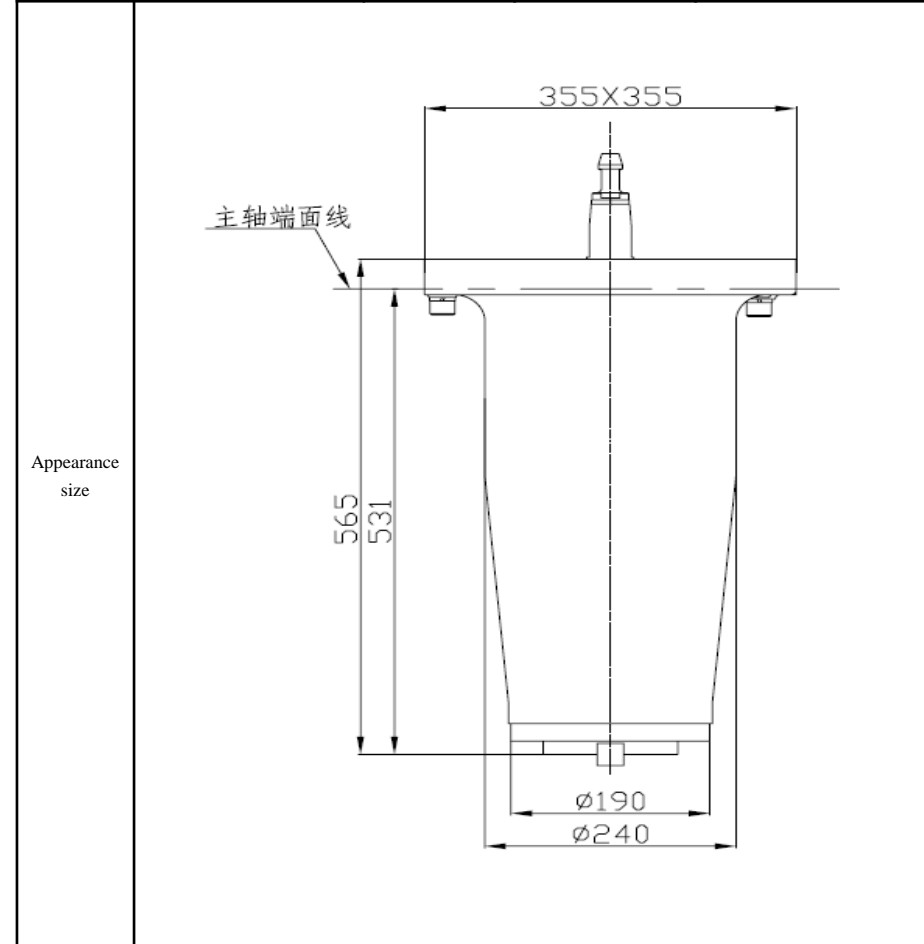
Option configuration - Manual milling head



Name	Major Function	Technical description		Remarks
Manual universal milling head	Manual head change Manual transposition	C-axis automatic indexing	360° rotation	It is suitable GRU II , GRUE、GNU、GZU 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	



Name	Major Function	Technical description		Remarks
Manual extending head	Manual head change	maximum power	15KW	It is suitable GRU II 、 GRUE、 GNU、 GZU models.
		Speed range	1500r/min	
		Spindle taper	ISO 50	
		Maximum torque	1000Nm	





Head library

Note: choose B-type enclosure as option



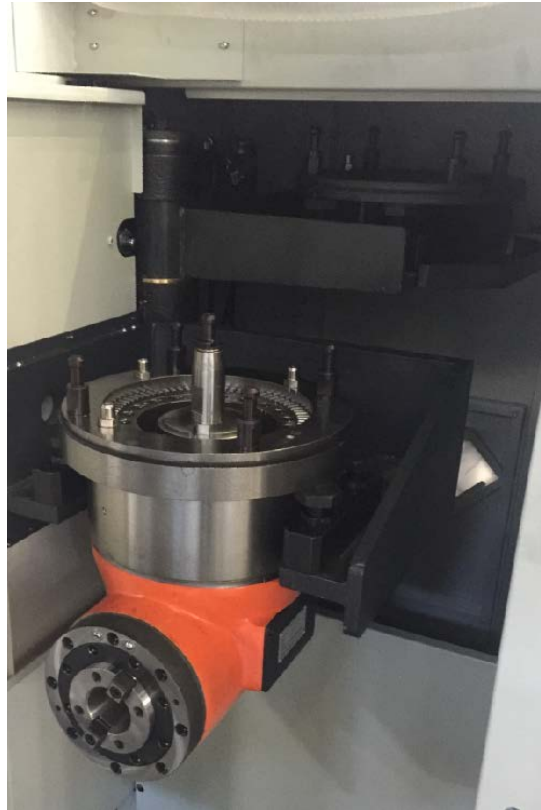
Vertical head library

Note: choose B-type enclosure as option



Vertical/horizontal head library

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



Two station rotated
head library



Two station table
fixed head library



Single shaft head library

Machine configuration

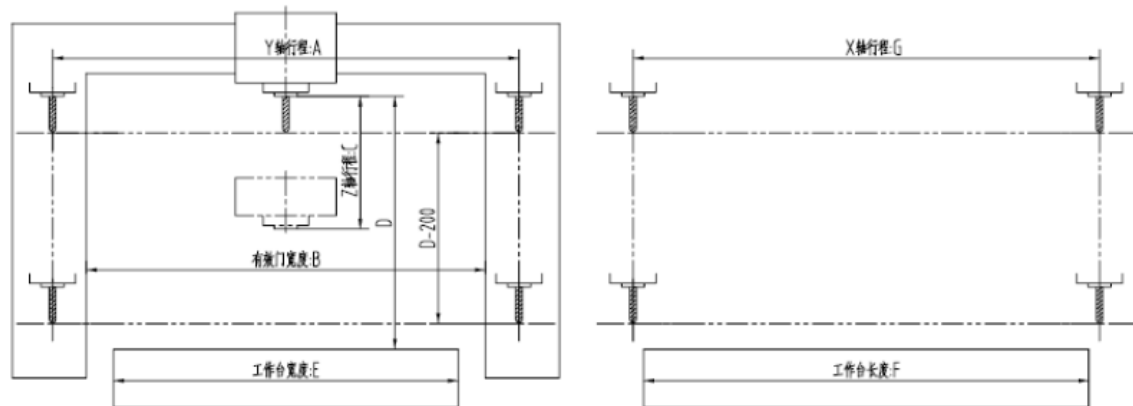


Standard configuration		Option configuration	
1	Controller : FANUC 0i	1	Controller : FANUC 31i
2	Gear box drive	2	Controller : SIEMENS 828D/840Dsl
3	Z axis hydraulic balance system	3	24/40 arm type ATC
4	spindle oil chiller	4	40 Vertical/horizontal ATC
5	Pneumatic, hydraulic and centralized lubrication system	5	Column heighten
6	Simple splash guard	6	Crossrail (Y axis) extended
7	Internal Helix chip conveyor	7	Z-axis travel 1500mm (ram 500×500)
8	External chain chip conveyor	8	Coolant through spindle(2-6MPa)
9	cutting cooling	9	Linear scale
10	3-color light, working light	10	CNC rotary table(4th)
11	Standard attachments	11	Full enclosure
12	Common maintain tools	12	Auto milling head
		13	Manual milling head
		14	Two station auto rotated head library
		15	Manual cart head stock
		16	Workpiece probe
		17	Tool probe
		18	Oil skimmer
		19	Water gun
		20	Air gun
		21	Air conditioner

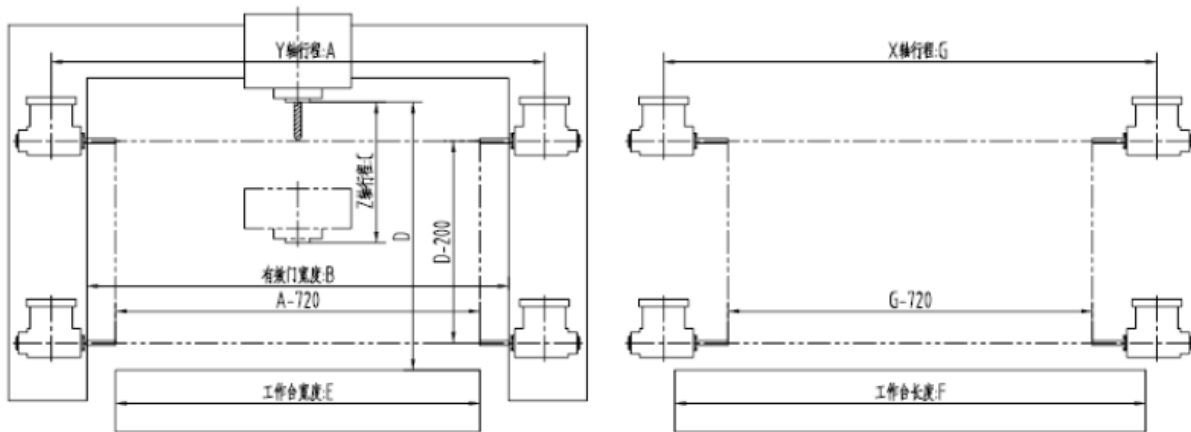
Processing scope with auto head



a) 标准配置加工范围，刀具长度 L=200mm 时。



b) 选配自动直角头(15kW)加工范围，刀具长度 L=200mm 时。



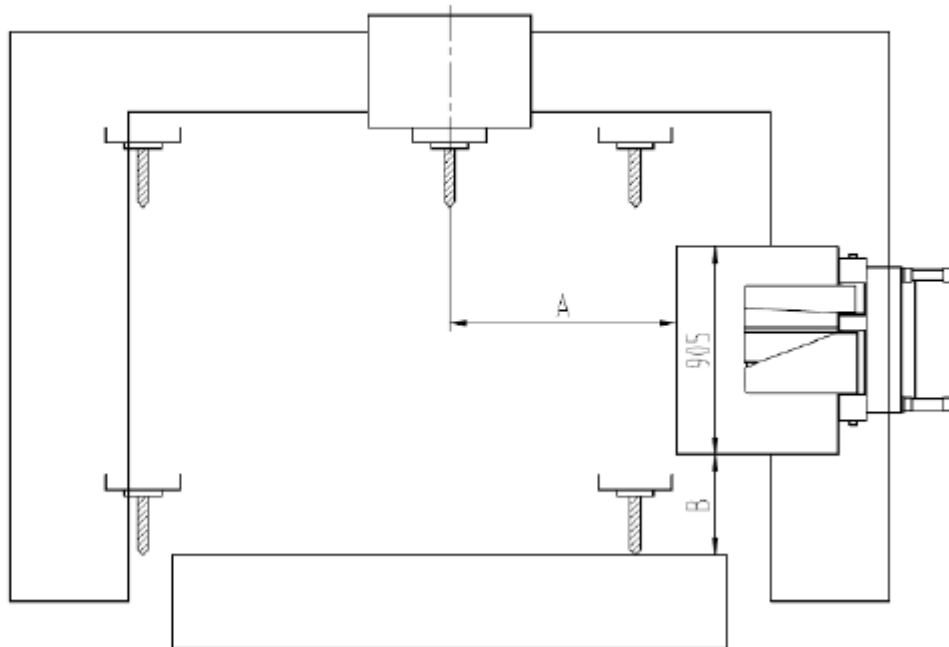
尺寸(mm) 机型	A	B	C	D	E	F	G
GNU28×30	2800 【3200】	2800	1250	150-1400	2000	3000	3200
GNU28×40				【350-1600】		4000	4200
GNU28×50				【550-1800】		5000	5500
GNU28×60				【750-2000】		6000	6500
GNU32×40	3200 【3600】	3200	1250	250-1500	2500	4000	4200
GNU32×50				【450-1700】		5000	5500
GNU32×60				【650-1900】		6000	6500
GNU32×80						8000	8500
GNU36×60	3600 【4200】	3600	1250	200-1450	3000	6000	6500
GNU36×80				【400-1650】		8000	8500
GNU36×100				【600-1850】		10000	10500
GNU36×120						12000	12500

*表格中带【】的尺寸是选配尺寸。

Description of processing range



c) 选配旋转头库的换头干涉范围

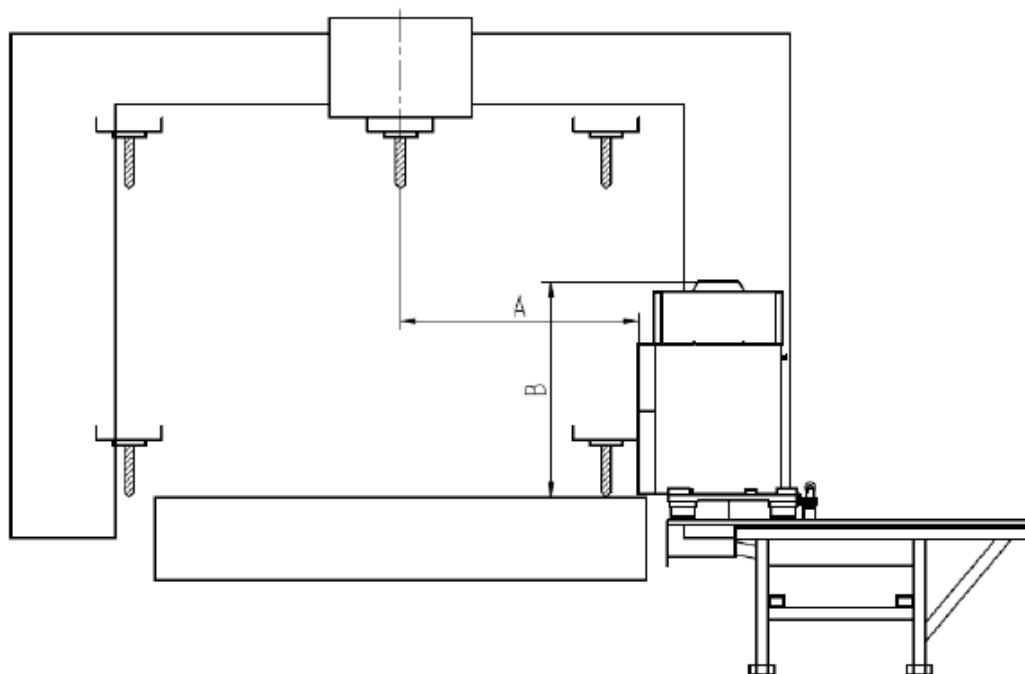


机床规格		干涉范围 (mm)	
		A	B
2700 行程横梁 2800 门宽 2m 工作台	标高立柱	910	175
	加高 200		
	加高 400		575
	加高 600		
3200 行程横梁 2800 门宽 2m 工作台	标高立柱	1110	175
	加高 200		
	加高 400		575
	加高 600		
3200 行程横梁 3200 门宽 2.5m 工作台	标高立柱	1160	75
	加高 200		475
	加高 400		
3600 行程横梁 3200 门宽 2.5m 工作台	标高立柱	1360	75
	加高 200		475
	加高 400		
3600 行程横梁 3600 门宽 3m 工作台	标高立柱	1335	200
	加高 200		600
	加高 400		
4200 行程横梁 3600 门宽 3m 工作台	标高立柱	1635	200
	加高 200		600
	加高 400		
4200 行程横梁 4200 门宽 3m 工作台	标高立柱	1635	200
	加高 200		600
	加高 400		

Description of processing range



d) 选配推车头库的换头干涉范围

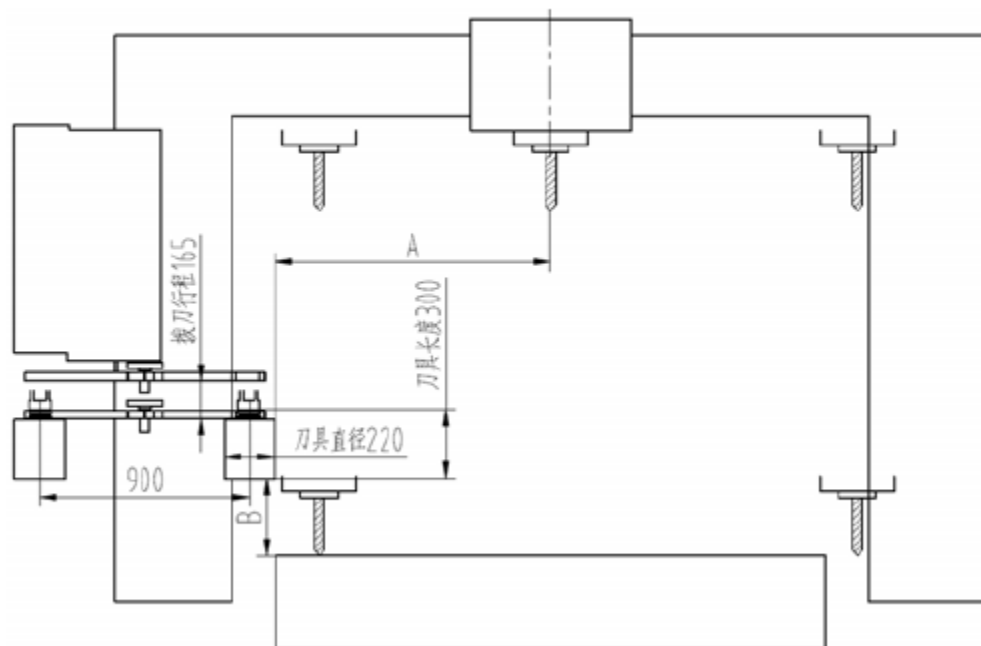


机床规格		干涉范围 (mm)	
		A	B
2800 门宽 2m 工作台	自动直角头	1030	1100
	自动延伸头		
	自动扁铣头		
	自动万能头		
3200 门宽 2.5m 工作台	自动直角头	1280	1000
	自动延伸头		
	自动扁铣头		
	自动万能头		
3600 门宽 3m 工作台	自动直角头	1450	1150
	自动延伸头		
	自动扁铣头		
	自动万能头		
4200 门宽 3m 工作台	自动直角头	1750	1150
	自动延伸头		
	自动扁铣头		
	自动万能头		

Description of processing range

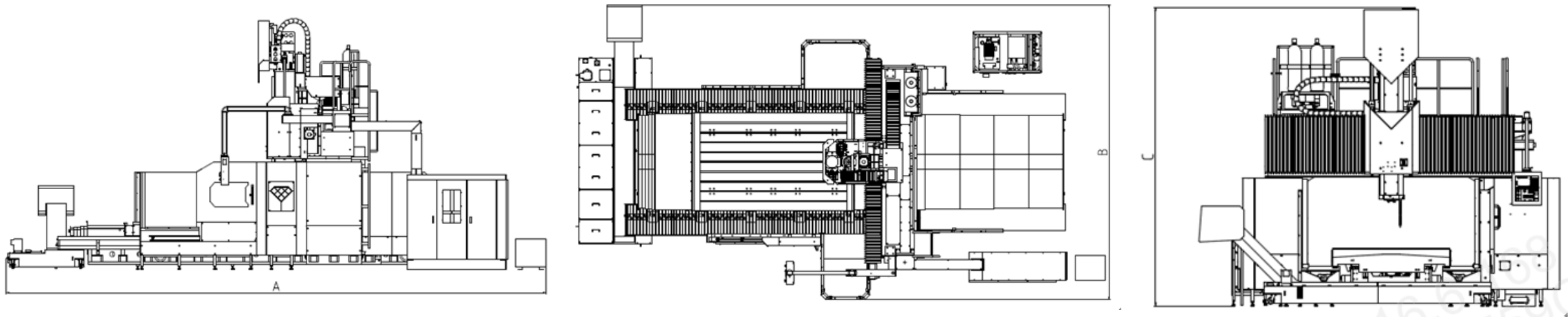


e) 选配 24 把立式刀库的换刀干涉范围



机床规格		干涉范围 (mm)	
		A	B
2700 行程横梁 2800 门宽 2m 工作台	标高立柱	1220	-245
	加高 200		-45
	加高 400		155
	加高 600		355
3200 行程横梁 2800 门宽 2m 工作台	标高立柱	1420	-245
	加高 200		-45
	加高 400		155
	加高 600		355
3200 行程横梁 3200 门宽 2.5m 工作台	标高立柱	1470	-145
	加高 200		55
	加高 400		255
3600 行程横梁 3200 门宽 2.5m 工作台	标高立柱	1670	-145
	加高 200		55
	加高 400		255
3600 行程横梁 3600 门宽 3m 工作台	标高立柱	1335	200
	加高 200		600
	加高 400		
4200 行程横梁 3600 门宽 3m 工作台	标高立柱	1635	200
	加高 200		600
	加高 400		
4200 行程横梁 4200 门宽 3m 工作台	标高立柱	1635	200
	加高 200		600
	加高 400		

Machine size



Model \ Size	Length A(cm)	Width B(cm)	Height C(cm)
GNU28x30	1050	530	675
GNU28x40	1250	530	675
GNU28x50	1500	530	675
GNU28x60	1700	530	675
GNU32x40	1250	580	695
GNU32x50	1500	580	695
GNU32x60	1700	580	695
GNU32x80	2300	580	695
GNU36x50	1500	620	695
GNU36x60	1700	620	695
GNU36x80	2300	620	695

Model \ Size	Length A(cm)	Width B(cm)	Height C(cm)
GNU42x50	1500	710	695
GNU42x60	1700	710	695
GNU42x80	2300	710	695
GNU42x100	2900	710	695
GNU42x120	3200	710	695

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

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谢谢观看！

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