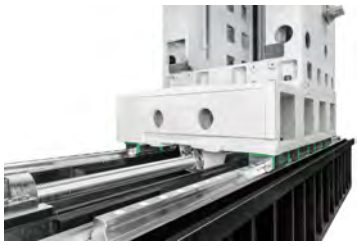
VBT SERIES

Horizontal Boring and Milling
Machining Center

Horizontal Machining

High Precision and High Power Horizontal Boring and Milling Performance

- Greatly meet the machining applications of energy, petroleum, shipbuilding, large structural parts, construction machinery, diesel engine body and so on.



VBT series

MODEL		UNIT	VBT-110	VBT-110A	VBT-110B	VBT-130
TRAVEL	X axis	mm	2000			
	X axis (Opt.)	mm	2500		2500/3000/3500	
	Y axis	mm	1600		2000	
	Y axis (Opt.)	mm	2000		-	2600
	Z axis	mm	1500			
	Z axis (Opt.)	mm	-		2000	
	W axis	mm	550		550	700
TABLE	Dimension	mm	1250×1250	1250×1500	1400×1600	
	Dimension (Opt.)	mm	-		-	1600×1800
	Division angle	deg	1° / 0.001° (Opt.)		0.001°	
	Reference aperture	mm	140H7			
	Max. table load	kg	5000	6000	8000	8000/10000/12000
	T-slot	mm	22H7×160×7	22H7×150×7	24H7×200×7	
SPINDLE	Distance from Spindle Center to Table	mm	65~1665		65~2065	75~2075
	Distance from Spindle nose to Table Center	mm	-125~1925		-25~2025	-40~2160
	Spindle diameter	mm	110			130
	Spindle taper	-	ISO 50			
	Spindle speed	rpm/min	35-3500			35-3000
	Spindle speed(Opt.)	rpm/min	35-4000			-
	Spindle speed step	-	2-step			
	Transmission method	-	Gear			
SPINDLE & MOTOR	Spindle motor	kW	18.5/22			22 / 30
	Max. Spindle Torque	Nm	965/1155			3011/4109
ACCURY	Positioning accuracy	arc-sec	6″/ 10″		10″	
	Repeatability accuracy	arc-sec	±2″/±4″		±4″	
	Positioning accuracy	mm	0.01			
	Repeat Positioning accuracy	mm	0.005			
TRANSMISSION	X / Y / Z axis	-	Direct-driven			
	W axis	-	Belt-driven			
	Y axis counterweight method	-	Hydraulic			
FEED	Cutting feed rate X / Y / Z / W	m/min	10/10/10/6			10/10/10/5
	Rapid traverse X / Y / Z / W	m/min	10/10/10/8			
ATC(Otp.)	ATC capaciry	-	40			60
	Tool selection method	-	Absolute			
	Tool type	-	Arm type			
	Tool shank	-	BT / CAT / DIN #50			
	Max. tool weight	kg	25			
	Max. tool length	mm	500			
	Max. tool diameter(next empty)	mm	Φ125/250			
OTHERS	Pneumatic requirement	kgf/cm²	6			
	Power requirement	KVA	50		65	88
	Tank capacity	L	315			
	Max. space(L×W)	mm	6405×6250		6405×6950	7690×6790
	Machine height	mm	5415		5450	5000
	Machine weight	kg	30500	32000	35000	41000

* For details, please refer to Machine Specification.
* The manufacture reserves the right to modify the design, specifications mechanisms, etc.

VBT series

MODEL		UNIT	VBT-130A	VBT-130B	VBT-150
TRAVEL	X axis	mm	3000	4500	
	X axis (Opt.)	mm	3500/4500/5500	4500/5500/6500	5500/6500/7500/8500
	Y axis	mm	2600	3200	
	Y axis (Opt.)	mm	3200	3500	
	Z axis	mm	1500	2000	
	Z axis (Opt.)	mm	2000	2500	
	W axis	mm	700		900
TABLE	Dimension	mm	1800×2200	2500×2500	2500×3000
	Dimension (Opt.)	mm	2500×2500	2500×3000	3000×3500
	Division angle	deg	0.001°		
	Reference aperture	mm	140H7		
	Max. table load	kg	15000/20000	20000/25000	20000/30000/40000
	T-slot	mm	24H7×200×7	28H7×200×11	28H7×250×9
SPINDLE	Distance from Spindle Center to Table	mm	75~2675	75~3275	
	Distance from Spindle nose to Table Center	mm	100~2300	200~2900	0~2900
	Spindle diameter	mm	130		150
	Spindle taper	-	ISO 50		
	Spindle speed	rpm/min	35-3000		35-2500
	Spindle speed(Opt.)	rpm/min	-		
	Spindle speed step	-	2-step		
	Transmission method	-	Gear		
SPINDLE & MOTOR	Spindle motor	kW	22 / 30		37/45
	Max. Spindle Torque	Nm	3011/4109		1942/2362
ACCURY	Positioning accuracy	arc-sec	10″		
	Repeatability accuracy	arc-sec	±4″		
	Positioning accuracy	mm	0.01		
	Repeat Positioning accuracy	mm	0.005		
TRANSMISSION	X / Y / Z axis	-	Direct-driven		
	W axis	-	Belt-driven		
	Y axis counterweight method	-	Hydraulic		
FEED	Cutting feed rate X / Y / Z / W	m/min	10/10/10/5		8/8/8/5
	Rapid traverse X / Y / Z / W	m/min	10/10/10/8		6/6/6/6
ATC(Otp.)	ATC capaciry	-	60		
	Tool selection method	-	Absolute		
	Tool type	-	Arm type		
	Tool shank	-	BT / CAT / DIN #50		
	Max. tool weight	kg	25		
	Max. tool length	mm	500		
	Max. tool diameter(next empty)	mm	Φ125/250		
OTHERS	Pneumatic requirement	kgf/cm²	6		
	Power requirement	KVA	95		125
	Tank capacity	L	315		
	Max. space(L×W)	mm	7690×8190	7690×9690	8500×9690
	Machine height	mm	5600	6500	9000
	Machine weight	kg	49000	58000	85000

* For details, please refer to Machine Specification.
* The manufacture reserves the right to modify the design, specifications mechanisms, etc.