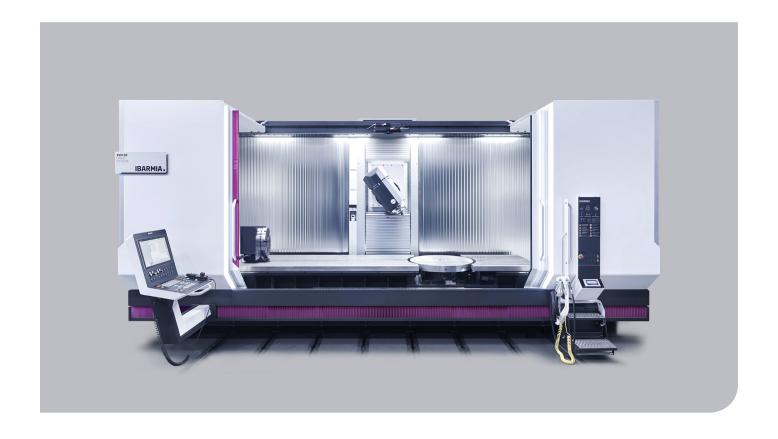
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ZVH EXTREME

TECHNICAL SPECIFICATIONS



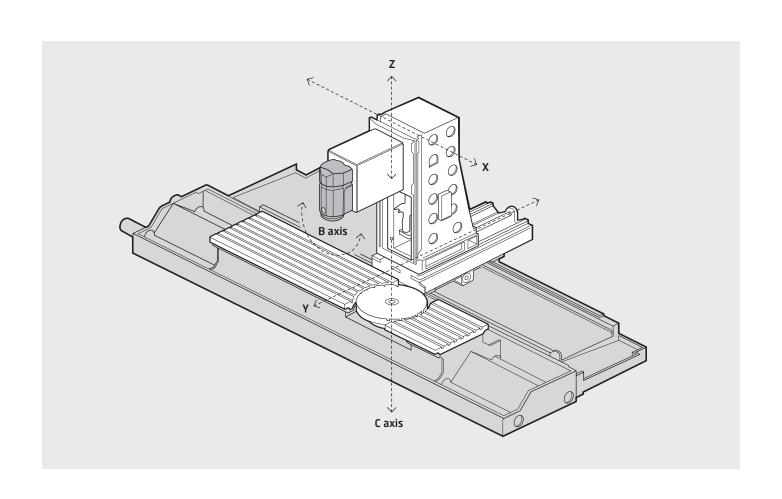
ZVH EXTREME

Combine 5 axis vertical and/or horizontal machining capacity with a fixed table so you can be ready for any job at the shortest notice.



ZVH EXTREME		ZVH 40	ZVH 45	ZVH 48	
STROKES					
-X axis travel (length)	mm	1600 - 12000			
-X axis travel working in 2 areas (vertical)	mm	2x 515 (L1600) - 2x 2715 (L6000)			
-Y axis travel (cross)	mm	600	800	1000	
-Z axis travel (vertical)	mm		900		
-B axis head range	0		+/-105		
Maximum swing diameter (C axis integrated rotary table)	mm	900	1100	1300	
TABLE					
Fixed table dimensions	mm	L1600-2200: X+400 mm; <l3000: &="" +50="" mm="" mr<="" td="" x+600="" y=""></l3000:>			
Maximum table load capacity	Kg/m²	1500			
Number of "T" slots		5		7	
-"T" slots size	mm	18 H7			
Distance between "T" slots	mm	125			
-Min. / Max. distance spindle nose / table	mm	V (0900) - H (3601260)			
Table height	mm	1050			
TILTINH HEAD					
-Turning torque	Nm	782			
Position clamping force	Nm	6000			
MAIN SPINDLE					
-Spindle taper		Standard: SK 40 - Option: BT 40 / HSK A-63			
-Maximum speed	rpm	Standard: 12.000 - Option: 20.000			
-Maximum power	kW	Standard: 46 - Option: 40			
-Maximum torque	Nm	Standard: 200 - Option: 135			
CONTROLS					
-Available digital controls		Fanuc / Heidenhain / Siemens			
FEED					
-Feed thrust X-Y-Z 100% (S3 40%)	N	X: 11.992 (17.261) / Y: 8521 (11.689) / Z: 7669 (10.520		′ Z: 7669 (10.520)	
Rapid feed for positioning X-Y-Z	m/min	45-48-48		,	
-Maximum working feed X-Y-Z	m/min	30			
Rapid feed for positioning in B axis	rpm	50			
ACCURACY VDI / DGQ3441					
Positioning accuracy Tp X-Y-Z (1000 mm)	μm	10			
-Repeatability	 μm	5			
-Measuring system on B axis		Rotary scale			
Positioning accuracy Tp B	s	8"			

ZVH EXTREME		ZVH 40	ZVH 45	ZVH 48	
CAPACITIES					
Milling capacity in steel St 60	cm³/min	900			
-Drilling capacity in steel St 60	Ø mm	50			
-Tapping de roscado en acero St 60		M33			
TOOL MAGAZINE					
Number of tools		24. Optional: 40, 60, 80 and more available on request.			
Maximum tool length	mm	350			
Maximum tool weight	Kg	10			
Maximum tool Ø with full magazine	mm	150 (80 with 60-80 ATC)			
Maximum tool Ø with free spaces	mm	125			
Tool changing time	S	8"			
Chip to chip time	S	10"			
GENERAL					
-Machine painted in 3 colours	RAL	White 9010, Ligth Grey 9006, Dark Grey 7021			
Total power installed	kW	60			
Power connection voltage	V	400 V / 50 Hz			
Required compressed air pressure	bar	6			
Machine length (L1600 / L6000)	mm	5850 (L1600) - 11650 (L6000)			
Aproximate net weight (L1600 / L6000)	kg	12.500 / 27.500	14.500 / 29.500	15.500 / 32.5	



INCLUDED ITEMS IN STANDARD CONFIGURATION

- 4 axis model: longitudinal X, transversal Y, vertical Z, tilting head B, combined with C and/or A axis rotary table.
- Direct measuring on linear axes X / Y / Z.
- Measuring by rotary scale on rotary axes B / C / A.
- Travelling on lineal guides and ball screws.
- Servomotors with braking system for the axes.
- Rack and pinion system on machines from 6000 mm long.
- Hydraulic counter weight for the head.
- Electrospindle thermal compensation.
- 24 tool ATC magazine.
- · Air blast for tool cleaning.
- · Totally encapsulated working area.
- Vertical covers on X axis (steel bellows).
- Illumination of working area.
- Double auger system for chip evacuation.
- Removable lateral pannels.
- Moving and rotary control panel (360°) along machine bed (except L1600).
- Touch screen 19".
- Chip Conveyor with integrated coolant tank.
- External coolant system around the spindle.
- Programmable central lubrication system.
- Climatised electrical cabinet.
- Machine levelling elements.
- Informative cartel in black methacrylate.
- SMART POINT machine data monitoring system.

OPTIONAL ITEMS

- Coolant through spindle.
- NSM software and division wall of working areas.
- Transport cart for the division wall.
- ATC magazines up to 200 tools (fixed magazines, rack type...).
- Pick up stations integrated in the machine to hold special tools and angular heads.
- Special tool magazines up to 400 positions managed by arm robot.
- Tool measuring and touch systems.
- C axis integrated rotary tables up to ø1200 mm.
- Big diameter rotary tables up to ø2000 mm together with the fix table.
- Bolt on rotary tables to be used either in horizontal or vertical axis.
- Special working table configurations: moving tables, trunnion fixtures...
- Steam and mist aspiration system.
- Spray and air guns.
- "Comfort" pack: Sliding access stairway along the longitudinal travel with supports for air and water guns.
- "Illumination" pack: LED lights with acoustic signal indicating the state of the machine, integrated into the sides.
- 3 light tower with acoustic signal indicating the state of the machine.
- Camera settings and display mode.
- CNC control with touch screen up to 24".
- Advanced HMI.
- Portable electronic hand-wheel with support in the control pannel.