

HALLERBS

VERTICAL MACHINING CENTRES

**43 machines, 600 to 3,500 mm
of X travel.**

One family, from a 700 × 430 table to a moving-beam machine that takes a 3.6 metre part. Built and sold by the manufacturer.



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Choosing from this range

Nine series, and the differences between them are not marketing. This is what actually separates them.

BY WHAT THE PART DEMANDS

- **Standard (HL-600 / 800 / 1000, HL-8, HL-11)** — general subcontract work. 12,000 rpm, 118–126 N·m, rapid 48 m/min.
- **SS, high speed** — same envelope, rapid to 72 m/min. Worth it when the cycle is dominated by air-cutting and tool change, not by metal removal.
- **HS, large** — 1,300 to 2,200 mm X, 191 N·m. For long parts and fixtures with several parts on the table.
- **LS, four-rail** — heavier casting, through-spindle coolant standard, rapid to 100 m/min in X.
- **Hard rail (HL-1065 / 1265)** — box ways instead of linear rails. Slower, but the right answer for interrupted cuts and heavy roughing; gear head gives 761 N·m at low range.
- **Five axis** — HSK-A63 at 18,000 rpm, trunnion table Ø400 to Ø800.
- **Twin spindle** — two identical parts per cycle on one control.

0.005 / 0.004 mm

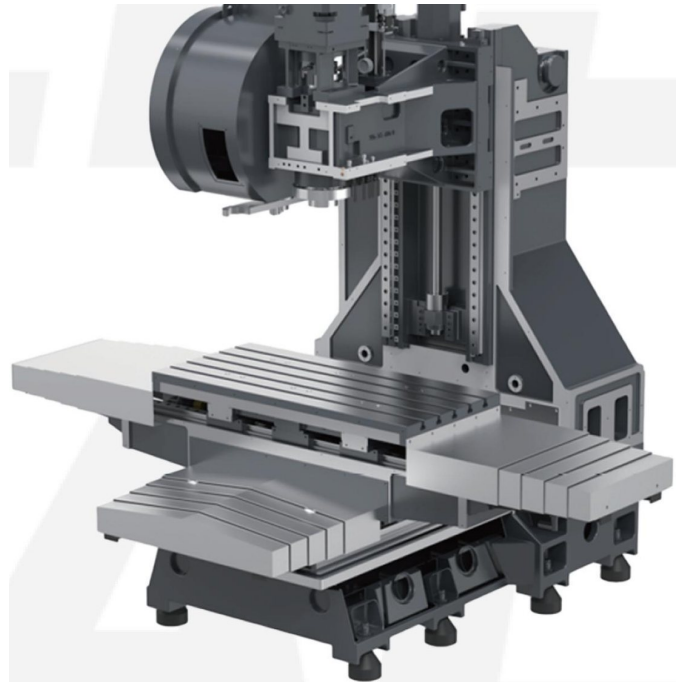
Positioning and repeatability, laser-measured to VDI 3441

0.010 mm

Table flatness over 1,300 mm

14 checks

Geometric and dynamic inspection before every shipment



If a machine in this catalogue is the wrong tool for your job, we will say so.

Send a part drawing and we will tell you which series fits — or that none of them does.

How the machines are built

CASTINGS

Structures are analysed by finite element method before a pattern is cut, so stiffness is designed into the casting rather than added as mass afterwards. Wide-span box bases, ribbed columns and a short spindle-to-table loop keep deflection where it does not reach the part.

BALLSCREWS

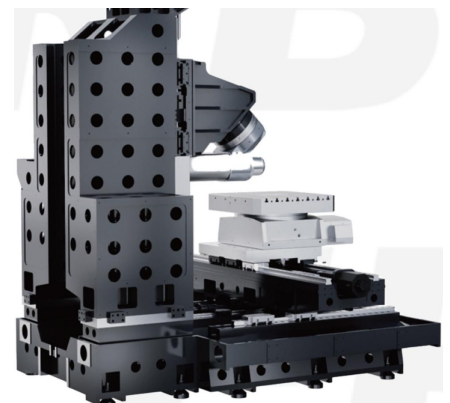
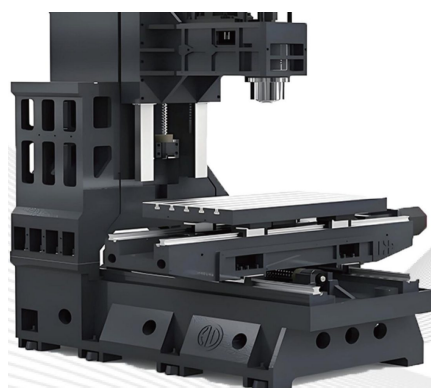
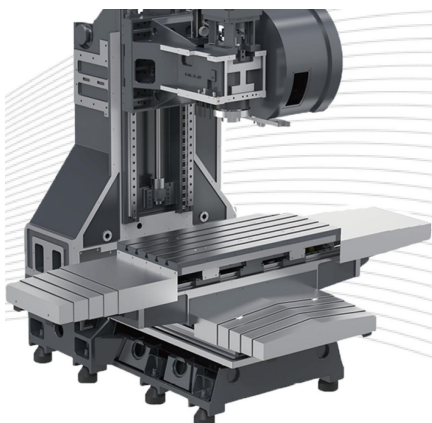
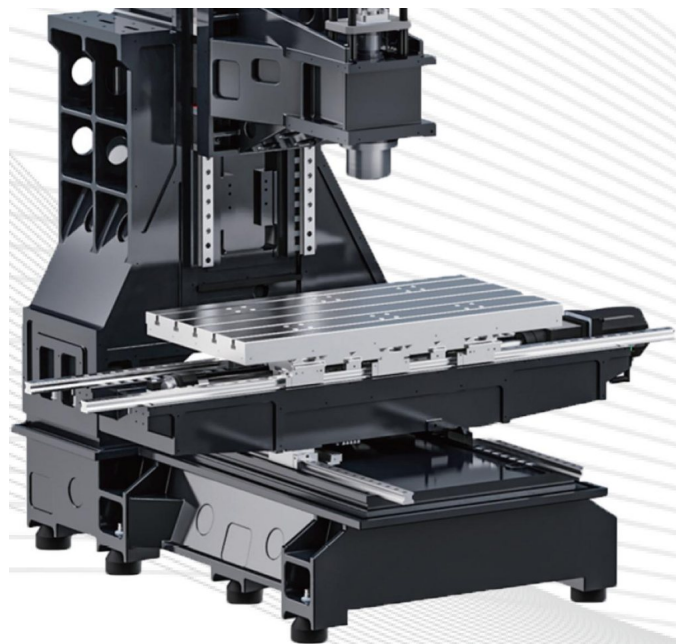
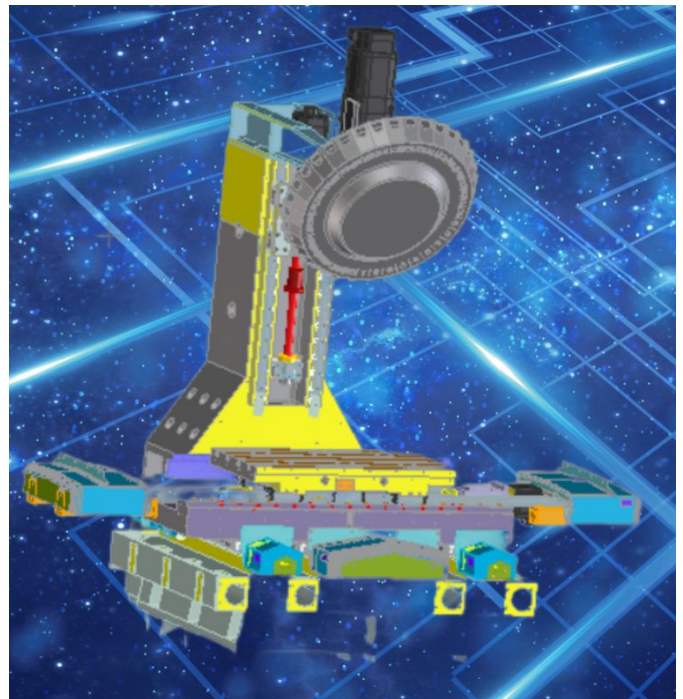
Core-cooled ballscrews are standard on the larger series. Screw temperature is what moves the axis over a long run — cooling the screw is how positioning holds through a shift, not just at the first part.

CONTROLS

Siemens, FANUC or Mitsubishi, your choice. This matters beyond preference: the control, drives and motors are then supported by that manufacturer's own service organisation in your country.

VERIFICATION

Positioning and repeatability are laser-measured to VDI 3441. Every machine passes a 14-point geometric and dynamic inspection before it ships, and the report goes with the machine.



Standard and high-speed

HL-600 / 800 / 1000 — compact high-precision

Specification	Unit	HL-600	HL-800	HL-1000
TRAVEL				
X / Y / Z	mm	600 / 430 / 480	800 / 430 / 480	1000 / 430 / 480
TABLE				
Working surface	mm	700 × 430	900 × 430	1100 × 430
SPINDLE				
Speed	rpm	12,000	12,000	12,000
Power	kW	11 / 15	11 / 15	11 / 15
Torque	N-m	118	118	118
Taper		BT40	BT40	BT40
TOOL CHANGER				
Capacity	tools	24	24	24
FEED				
Rapid X / Y / Z	m/min	48 / 48 / 36	48 / 48 / 36	48 / 48 / 36

Optional spindle speeds 8,000 / 10,000 / 15,000 / 20,000 rpm. Core-cooled ballscrews fitted as standard.

HL-600SS / 800SS / 1000SS — high-speed

Specification	Unit	HL-600SS	HL-800SS	HL-1000SS
TRAVEL				
X / Y / Z	mm	600 / 430 / 480	800 / 430 / 480	1000 / 430 / 480
TABLE				
Working surface	mm	700 × 430	900 × 430	1100 × 430
SPINDLE				
Speed	rpm	12,000	12,000	12,000
Power	kW	10	10	10
Torque	N-m	126	126	126
Taper		BT40	BT40	BT40
TOOL CHANGER				
Capacity	tools	24	24	24
FEED				
Rapid X / Y / Z	m/min	72 / 72 / 64	72 / 72 / 64	72 / 72 / 64

HL-8 / 8HS / 11 / 11HS — workhorse

Specification	Unit	HL-8	HL-8HS	HL-11	HL-11HS
TRAVEL					
X / Y / Z	mm	800 / 500 / 600	800 / 500 / 600	1100 / 500 / 600	1100 / 500 / 600
TABLE					
Working surface	mm	1300 × 480	1300 × 480	1300 × 480	1300 × 480
SPINDLE					
Speed	rpm	12,000	12,000	12,000	12,000
Power	kW	11 / 15	11 / 15	11 / 15	11 / 15
Torque	N-m	126	126	126	126
Taper		BT40	BT40	BT40	BT40
TOOL CHANGER					
Capacity	tools	24	24	24	24
FEED					
Rapid X / Y / Z	m/min	48 / 48 / 36	64 / 64 / 64	48 / 48 / 36	64 / 64 / 64

Optional spindle speeds 8,000 / 10,000 / 15,000 / 20,000 / 24,000 / 40,000 rpm. HL-11 and HL-11HS: BT50 spindle available.

Export series

HL-856CKP / 956CKP / 1165CKP — export high-precision

Specification	Unit	HL-856CKP	HL-956CKP	HL-1165CKP
TRAVEL				
X / Y / Z	mm	800 / 550 / 600	900 / 550 / 600	1100 / 600 / 600
TABLE				
Working surface	mm	1000 × 550	1000 × 550	1300 × 600
SPINDLE				
Speed	rpm	12,000	12,000	12,000
Power	kW	11 / 15	11 / 15	11 / 15
Torque	N·m	118	118	118
Taper		BT40	BT40	BT40
TOOL CHANGER				
Capacity	tools	24 / 30 / 32 / 36 / 40	24 / 30 / 32 / 36 / 40	24 / 30 / 32 / 36 / 40
FEED				
Rapid X / Y / Z	m/min	36 / 36 / 24	36 / 36 / 24	36 / 36 / 24

Spindle drive belt or direct. Optional speeds 8,000 / 10,000 / 15,000 / 20,000 rpm. HL-1165CKP: BT50 and core-cooled ballscrew available.

HL-856SSCKP / 956SSCKP / 1165SSCKP — export high-speed

Specification	Unit	HL-856SSCKP	HL-956SSCKP	HL-1165SSCKP
TRAVEL				
X / Y / Z	mm	800 / 550 / 600	900 / 550 / 600	1100 / 600 / 600
TABLE				
Working surface	mm	1000 × 550	1000 × 550	1300 × 600
SPINDLE				
Speed	rpm	12,000	12,000	12,000
Power	kW	12 / 13.5	12 / 13.5	12 / 13.5
Torque	N·m	126	126	126
Taper		BT40	BT40	BT40
TOOL CHANGER				
Capacity	tools	24 / 30 / 32 / 36 / 40	24 / 30 / 32 / 36 / 40	24 / 30 / 32 / 36 / 40
FEED				
Rapid X / Y / Z	m/min	48 / 48 / 36	48 / 48 / 36	48 / 48 / 36

Optional spindle speeds (belt) 8,000 / 10,000 / 12,000 / 15,000 / 20,000 rpm.

HL-1165 / 1165HS / 1165SS — high-precision series

Specification	Unit	HL-1165	HL-1165HS	HL-1165SS
TRAVEL				
X / Y / Z	mm	1100 / 650 / 650	1100 / 650 / 650	1100 / 650 / 650
TABLE				
Working surface	mm	1300 × 650	1300 × 650	1300 × 650
SPINDLE				
Speed	rpm	8,000 belt / 12,000 direct	10,000 belt / 12,000 direct	8,000 belt / 12,000
Power	kW	11 / 15	15 / 18.5	13.5 / 12
Torque	N·m	191 / 118	191	250 / 126
Taper		BT40	BT40	BT40
TOOL CHANGER				
Capacity	tools	24 / 30	24 / 30	24
FEED				
Rapid X / Y / Z	m/min	36 / 36 / 36	48 / 48 / 40	50 / 50 / 50

BT50 spindle available on all three.

Hard rail and Taiwan edition

HL-1065 / 1265 — hard-rail, three axis

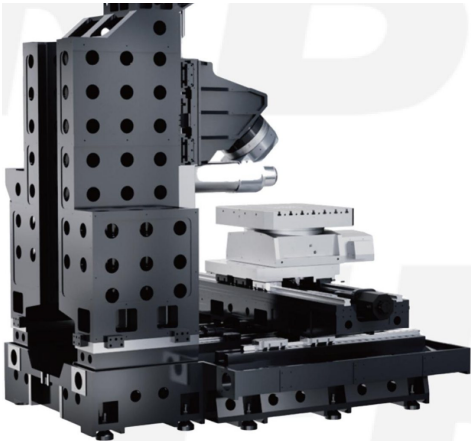
Specification	Unit	HL-1065	HL-1265	HL-1065 gear	HL-1265 gear
TRAVEL					
X / Y / Z	mm	1000 / 600 / 650	1200 / 650 / 650	1000 / 600 / 620	1200 / 650 / 620
TABLE					
Working surface	mm	1380 × 600	1380 × 600	1380 × 600	1380 × 600
SPINDLE					
Speed	rpm	8,000	8,000	6,000 / 8,000	6,000 / 8,000
Power	kW	11 / 15	15 / 18.5	15 / 18.5	15 / 18.5
Torque	N·m	191	191	761 low / 191 high	761 low / 191 high
Taper		BT40	BT40	BT40 / BT50	BT40 / BT50
TOOL CHANGER					
Capacity	tools	24 / 30	24 / 30	24 / 30	24 / 30
FEED					
Rapid X / Y / Z	m/min	18 / 18 / 18	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20

Optional spindle speeds 6,000 / 8,000 / 12,000 rpm. Gear-head versions available. BT50 spindle available.

ZMLF-855 / ZMLF-1160 / HL-1270 / HL-1375

Specification	Unit	ZMLF-855	ZMLF-1160	HL-1270	HL-1375
TRAVEL					
X / Y / Z	mm	800 / 550 / 550	1100 / 600 / 600	1200 / 700 / 700	1350 / 750 / 800
TABLE					
Working surface	mm	1000 × 500	1300 × 600	1400 × 700	1500 × 800
SPINDLE					
Speed	rpm	12,000	12,000	12,000	12,000
Power	kW	11 / 15	11 / 15	11 / 15	11 / 15
Torque	N·m	118	118	118	118
Taper		BT40	BT40	BT40	BT40
TOOL CHANGER					
Capacity	tools	24	24	24	24
FEED					
Rapid X / Y / Z	m/min	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36

Optional spindle speeds 6,000 / 8,000 / 10,000 / 12,000 / 15,000 rpm. BT50 available on ZMLF-1160, HL-1270 and HL-1375.



Four-rail and large envelope

HL-900LS / 1200LS / 1500LS / 1750LS — heavy-duty four-rail

Specification	Unit	HL-900LS	HL-1200LS	HL-1500LS	HL-1750LS
TRAVEL					
X / Y / Z	mm	900 / 530 / 650	1200 / 530 / 650	1500 / 530 / 650	1750 / 530 / 650
TABLE					
Working surface	mm	1000 × 525	1500 × 525	1700 × 525	1700 × 525
SPINDLE					
Speed	rpm	12,000	12,000	12,000	12,000
Power	kW	10	10	10	10
Torque	N·m	118	118	118	118
Taper		BT40	BT40	BT40	BT40
TOOL CHANGER					
Capacity	tools	32	32	32	32
FEED					
Rapid X / Y / Z	m/min	100 / 72 / 72	100 / 72 / 72	60 / 60 / 60	60 / 60 / 60

Through-spindle coolant as standard.

HL-1380HS ... 2280HS — large, high precision

Specification	Unit	HL-1380HS	HL-1680HS	HL-1880HS	HL-2080HS	HL-2280HS
TRAVEL						
X / Y / Z	mm	1300 / 800 / 700	1600 / 800 / 700	1800 / 800 / 700	2000 / 800 / 700	2200 / 800 / 700
TABLE						
Working surface	mm	1400 × 800	1700 × 800	1900 × 800	1900 × 800	2300 × 800
SPINDLE						
Speed	rpm	12,000	12,000	12,000	12,000	12,000
Power	kW	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5
Torque	N·m	191	191	191	191	191
Taper		BT40	BT40	BT40	BT40	BT40
TOOL CHANGER						
Capacity	tools	24 / 32	24 / 32	24 / 32	24 / 32	24 / 32
FEED						
Rapid X / Y / Z	m/min	40 / 40 / 36	40 / 40 / 36	60 / 60 / 36	60 / 60 / 36	40 / 40 / 40

Optional spindle speeds 8,000 / 10,000 / 15,000 / 20,000 / 24,000 rpm. Gear-head and BT50 spindles available. Core-cooled ballscrews standard.

HL-1380SS ... 2280SS — large, high speed

Specification	Unit	HL-1380SS	HL-1680SS	HL-1880SS	HL-2080SS	HL-2280SS
TRAVEL						
X / Y / Z	mm	1300 / 800 / 700	1600 / 800 / 700	1800 / 800 / 700	2000 / 800 / 700	2200 / 800 / 700
TABLE						
Working surface	mm	1400 × 800	1700 × 800	1900 × 800	1900 × 800	2300 × 800
SPINDLE						
Speed	rpm	12,000	12,000	12,000	12,000	12,000
Power	kW	12 / 13.5 / 17.5 / 22	12 / 13.5 / 17.5 / 22	12 / 13.5 / 17.5 / 22	12 / 13.5 / 17.5 / 22	12 / 13.5 / 17.5
Torque	N·m	126 / 240 / 350	126 / 240 / 350	126 / 240 / 350	126 / 240 / 350	126 / 240
Taper		BT40	BT40	BT40	BT40	BT40
TOOL CHANGER						
Capacity	tools	24 / 32	24 / 32	24 / 32	24 / 32	24 / 32
FEED						
Rapid X / Y / Z	m/min	60 / 60 / 54	60 / 60 / 54	60 / 60 / 40	40 / 40 / 40	40 / 40 / 40

Optional spindle speeds 8,000 / 10,000 / 15,000 / 20,000 / 24,000 rpm.

High rigidity and moving beam

HL-1385 ... HL-2300 — high rigidity, large envelope

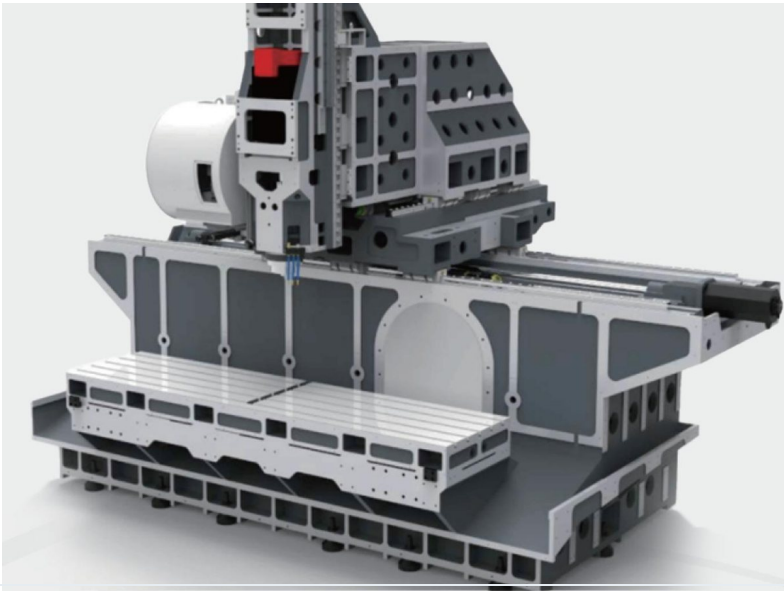
Specification	Unit	HL-1385	HL-1580HS	HL-1680	HL-1690	HL-1890	HL-2090	HL-2300
TRAVEL								
X / Y / Z	mm	1350 / 850 / 850	1580 / 850 / 850	1650 / 850 / 850	1650 / 900 / 900	1850 / 900 / 900	2000 / 900 / 900	2300 / 1050 / 850
TABLE								
Working surface	mm	1500 × 800	1700 × 850	1700 × 850	1700 × 850	2000 × 900	2200 × 900	2300 × 1000
SPINDLE								
Speed	rpm	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000	8,000 / 10,000 / 12,000
Power	kW	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5	15 / 18.5
Torque	N·m	191 / 236	191 / 236	191 / 236	191 / 236	191 / 236	191 / 236	191 / 236
Taper		BT40	BT40	BT40	BT40	BT40	BT40	BT40
TOOL CHANGER								
Capacity	tools	24 / 32 / 36 / 40	24 / 32 / 36 / 40	24 / 32 / 36 / 40	24 / 32 / 36 / 40	24 / 32 / 36 / 40	24 / 32 / 36 / 40	24 / 32 / 36 / 40
FEED								
Rapid X / Y / Z	m/min	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36	36 / 36 / 24	36 / 36 / 30

Spindle 8,000 / 10,000 / 12,000 rpm. BT50 at 6,000 rpm available.

HL-2565HS / HL-3565HS — moving-beam, extra large

Specification	Unit	HL-2565HS	HL-3565HS
TRAVEL			
X / Y / Z	mm	2500 / 650 / 650	3500 / 650 / 650
TABLE			
Working surface	mm	2600 × 650	3600 × 650
SPINDLE			
Speed	rpm	8,000 / 12,000	8,000 / 12,000
Power	kW	18.5	18.5
Torque	N·m	191	191
Taper		BT40	BT40
TOOL CHANGER			
Capacity	tools	24	24
FEED			
Rapid X / Y / Z	m/min	60 / 60 / 60	60 / 60 / 60

Core-cooled ballscrews as standard.



Compact and twin spindle

HL-643 ... HL-1050 — compact, umbrella magazine

Specification	Unit	HL-643	HL-645	HL-743	HL-745	HL-854	HL-850	HL-1054	HL-1050
TRAVEL									
X / Y / Z	mm	600 / 400 / 300	600 / 450 / 300	700 / 400 / 300	700 / 450 / 300	800 / 500 / 400	800 / 500 / 500	1000 / 500 / 400	1000 / 500 / 500
TABLE									
Working surface	mm	700 × 420	700 × 420	800 × 420	800 × 420	1000 × 500	1000 × 500	1000 × 500	1000 × 500
SPINDLE									
Speed	rpm	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Power	kW	11 / 15	11 / 15	11 / 15	11 / 15	11 / 15	11 / 15	11 / 15	11 / 15
Torque	N·m	191	191	191	191	191	191	118	118
Taper		BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40	BBT40
TOOL CHANGER									
Capacity	tools	20	20	20	20	20	20	20	20
FEED									
Rapid X / Y / Z	m/min	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48

Twin-spindle machines — two parts per cycle

Specification	Unit	HL-600-2tool	HL-V500-2T	HL-V670-2T
TRAVEL				
X / Y / Z	mm	600 / 450 / 330	800 / 600 / 600	800 / 670 / 750
TABLE				
Working surface	mm	900 × 420	1200 × 600	1400 × 700
SPINDLE				
Speed	rpm	12,000	6,000 – 12,000	6,000 – 12,000
Taper		BT30	BT40 / BT50	BT40 / BT50
TOOL CHANGER				
Capacity	tools	21	24 / 30	24 / 30



WHERE THE COMPACT MACHINES EARN THEIR PLACE

A BBT40 spindle with a 20-tool umbrella magazine on a 700 × 420 table is not a small version of a big machine — it is a different economic proposition. It costs less floor space and less money per spindle hour, so it is the right home for the second operations and the simpler parts that would otherwise occupy a machine you bought for something harder.

The twin-spindle machines answer the same question differently: two identical parts per cycle on one control and one operator, for volumes where the part is settled and the quantity is not.

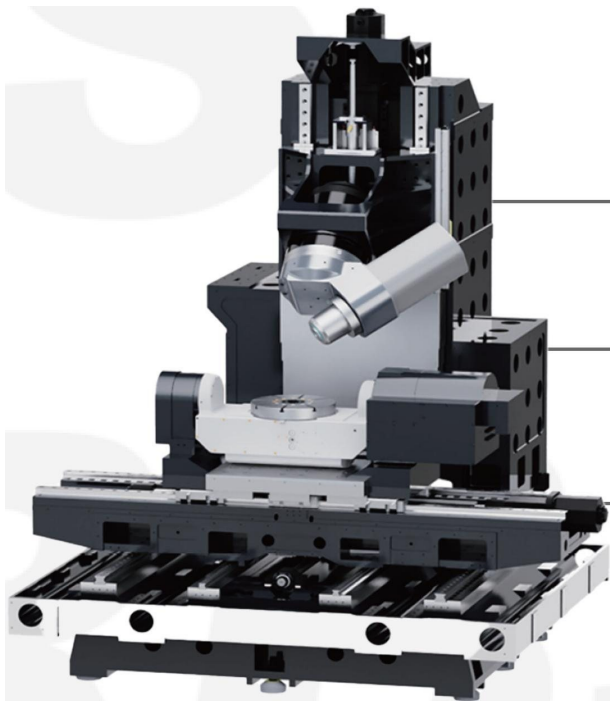
Five-axis machining centres

Trunnion table with HSK-A63 at 18,000 rpm. For work where the accuracy is lost in re-clamping rather than in cutting.

HL-400SS / 500SS / 650SS / 800SS — five axis, trunnion

Specification	Unit	HL-400SS	HL-500SS	HL-650SS	HL-800SS
TRAVEL					
X / Y / Z	mm	450 / 550 / 400	550 / 650 / 450	700 / 800 / 550	850 / 950 / 550
TABLE					
Rotary table	mm	Ø400	Ø500	Ø650	Ø800
SPINDLE					
Speed	rpm	18,000	18,000	18,000	18,000
Taper		HSK-A63	HSK-A63	HSK-A63	HSK-A63
TOOL CHANGER					
Capacity	tools	24	40	40	24

HSK-A63 spindle interface. Rotary table diameter as listed.



OPTIONS ACROSS THE RANGE

- Through-spindle coolant, chip conveyor, oil skimmer
- 4th-axis rotary tables on any three-axis machine in this catalogue
- Linear scales on X / Y / Z
- BT50 spindles on the series noted in the tables
- Fixtures, tooling and automated islands designed and commissioned with the machine

TO QUOTE YOU PROPERLY WE NEED

- The part drawing, or envelope size and material
- Annual quantity and the cycle time you have to hit
- Which control your programmers already work on
- Whether the part is loaded by hand or has to be automated

Service and support

WITH THE MACHINE

- On-site installation, levelling and commissioning to verified accuracy
- Hands-on training for operators and programmers on the chosen control
- Genuine spare parts from the manufacturer
- Remote diagnostics and technical support

BEYOND THE MACHINE

- Fixtures and tooling designed around your part
- Automated islands designed, built and commissioned
- Machine logic and automation interfaces adapted to your process

BEFORE YOU COMMIT

Send a part drawing and we will machine that part on the actual machine, then ship you the part with its inspection report. You measure it on your own bench.

Customers are welcome to visit the plant and watch their machine run before it is shipped.

RECOGNITIONS

CE certification

National High-Tech Enterprise

National Advanced Industrial Mother Machine Manufacturer

Zhejiang Manufacturing "Pin" mark

Specialized & New enterprise

Third-party "Advanced Industrial Mother Machine Standard" test report (2024) available on request.



HALLERBS

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Specifications are for general information and may change without notice. Photographs may differ from the delivered configuration. The final specification is confirmed against your part drawing at quotation stage.