



DH SERIES **Double Column Machining Center**



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Fast and Compact

DH SERIES

CE

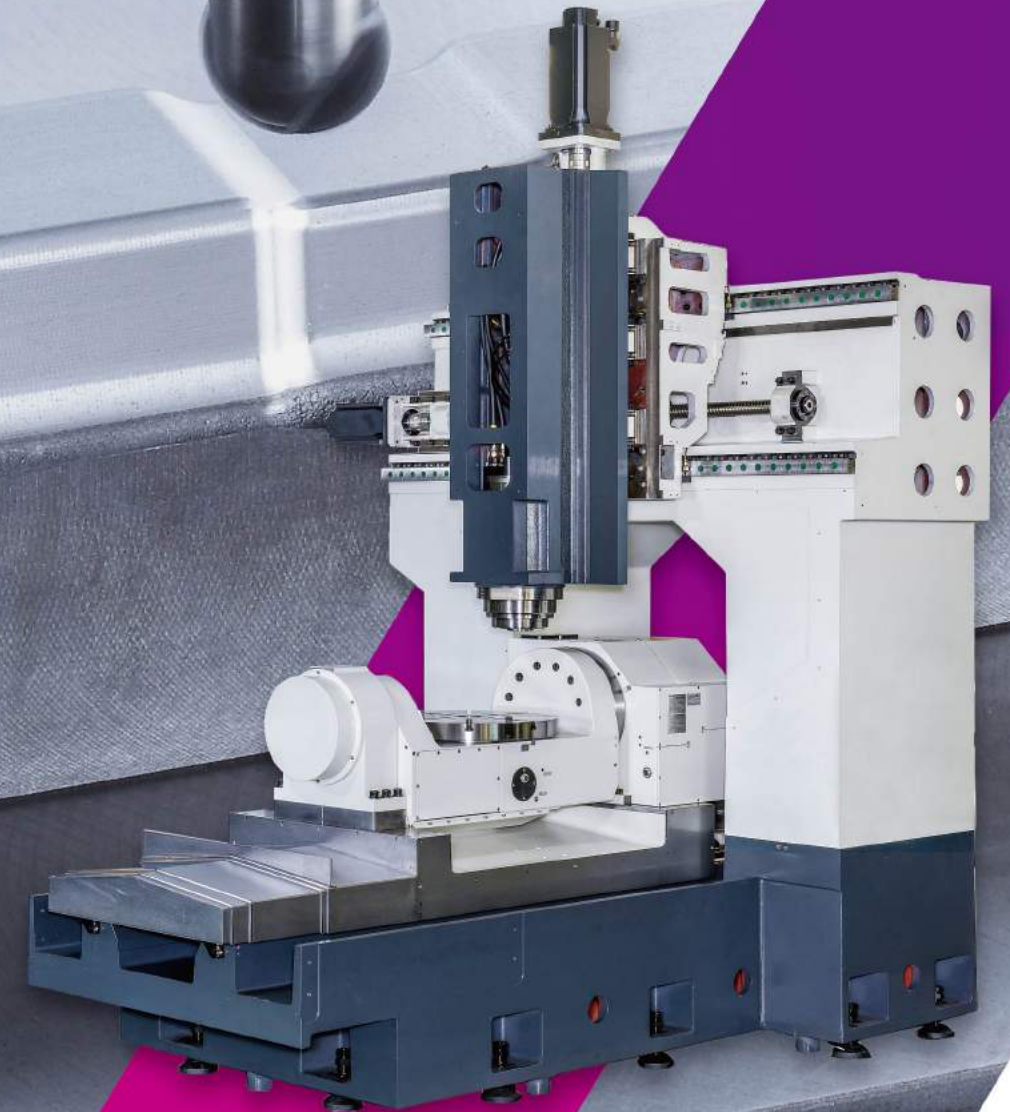
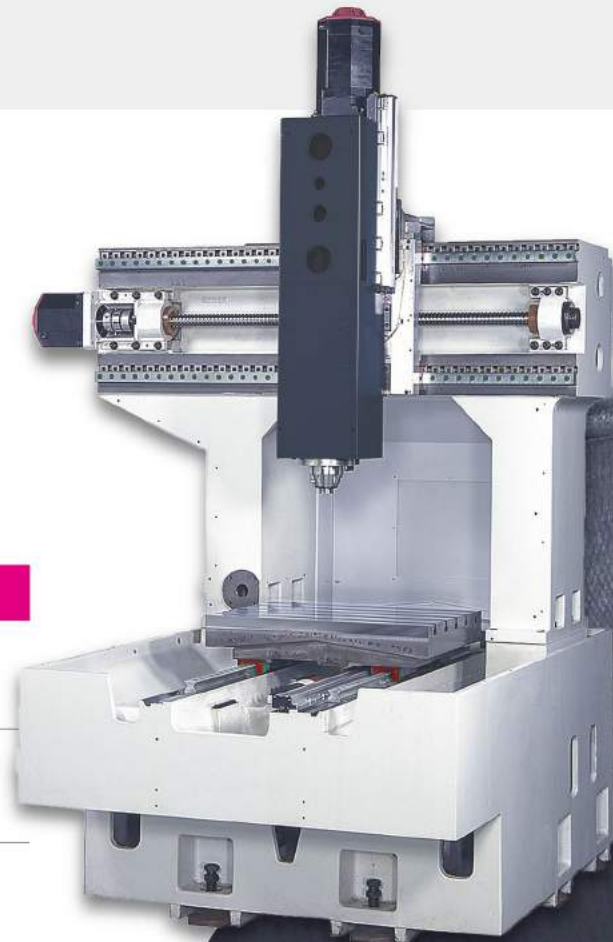


DH-606 / DH-1107 / DH-1607

- One piece design in crossbeam and column to ensure a high rigid and stable main structure.
- 20,000rpm / HSK-A63 and 30,000rpm / HSK-E40 built-in spindle features light weight, low inertia, high speed and low vibration which are indispensable to die and mold industry.
- Three axes are equipped with roller type linear guide ways feature high positioning accuracy and low wear. The accuracy can be maintain for a long time.
- Direct transmission for all three axes to ensure a precise positioning accuracy and repeatability.



	DH-606	DH-1107 / 1607
	mm 600x600x350	1,100 / 1,600x750x500
	mm 600x600	1,100 / 1,600x750
	mm 647	850



※ The machine images shown in the catalog contain optional items that must be paid for at an additional cost. Starvision reserves the right to change the structure, equipment, scope of delivery of the machine as well as other technical information.

Fast and Compact

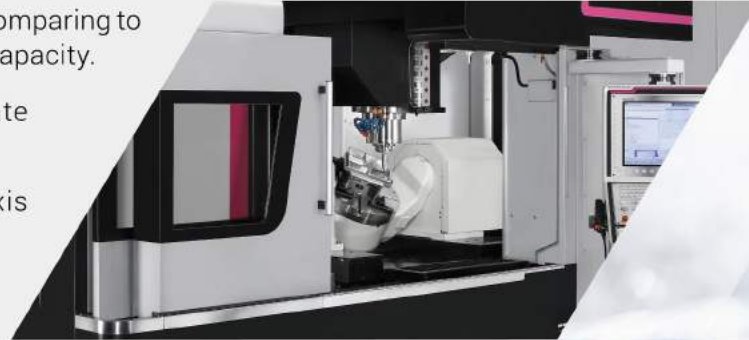
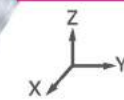
DH SERIES

CE



DH-1312 / DH-1612 / DH-2012

- With an optimized and rigid one-piece crossbeam and column design plus larger working area.
- The spindle is standard with 10,000rpm/BT-50 direct type spindle features high speed and low power consumption.
- Three axes are equipped with roller type linear guide ways which, comparing to ball type linear guide ways, offer higher rigidity and higher loading capacity.
- X/Y/Z axes rapid feed rate 30/30/30 m/min and cutting feed rate 1 - 10,000mm/min.
- An optional 2-axis rotary table can be integrated to achieve 5-axis simultaneous machining.

**DH-1312 / 1612 / 2012**

mm 1,300 / 1,600 / 2,000x1,200x600 (800-opt.)



mm 1,200 / 1,500 / 1,900x1,100



mm 1,300

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Fast and Compact A PERFECT REALIZATION

HIGH SPEED

+

HIGH ACCURACY

=

HIGH EFFICIENCY

Well regarded for die and mold industry, automotive industry and aerospace industry

2-STEP GEARBOX (OPT.)

- Using made in Japan JIS Class 0 gears
- High efficiency power transmission
- Great torque output
- All the bearings, gears and spindle have forced lubrication system to ensure a smooth operation of the gearbox and to make sure a constant temperature at all times.



Spindle

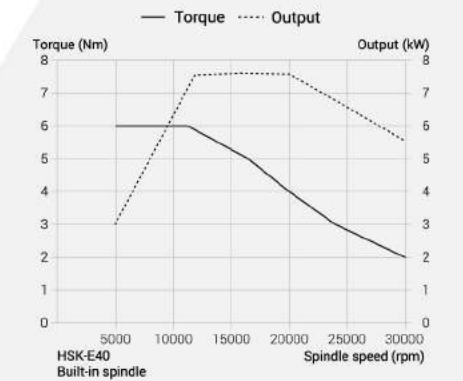
Spindle Torque



Built-in spindle HSK-E40 (for DH-606)

DH-606

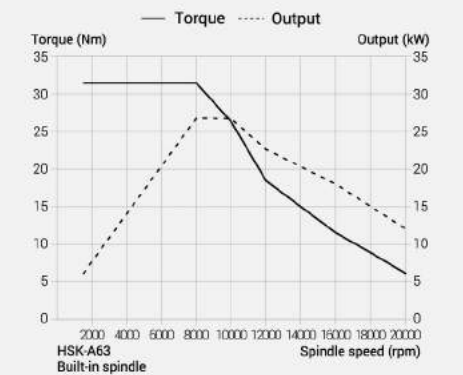
Outer dimension	mm	150
Max. speed	rpm	30,000
Bearing Size	mm	Ø45
Output Power	kW	7.6
Torque	Nm	6
Lubrication		Oil-air
Cooling		Oil



Built-in spindle HSK-A63 (for DH-XX07)

DH-XX07

Outer dimension	mm	190
Max. speed	rpm	20,000
Bearing Size	mm	Ø65
Output Power	kW	27.3
Torque	Nm	32.6
Lubrication		Oil-air
Cooling		Oil



Spindle

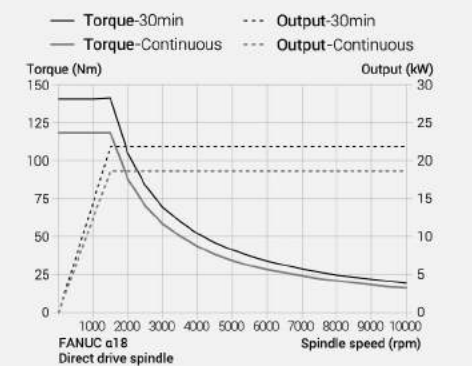
Spindle Torque



Direct drive spindle BT-50 (DH-XX12 std.)

DH-1312 / 1612 / 2012

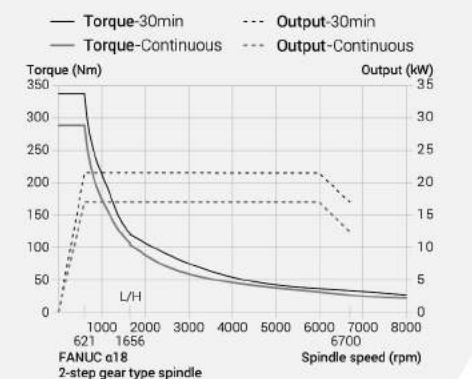
Outer dimension	mm	190
Max. speed	rpm	10,000
Bearing Size	mm	Ø90
Clamping force	KN	18
Lubrication		Grease
Cooling		Oil



Gear drive spindle BT-50 (DH-XX12 opt.)

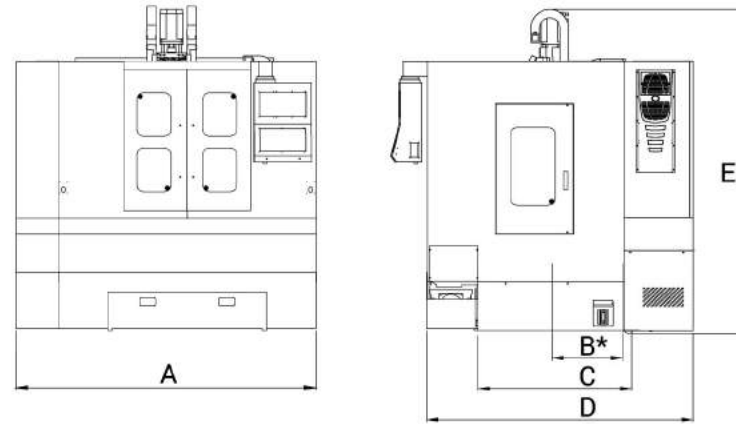
DH-1312 / 1612 / 2012

Outer dimension	mm	190
Max. speed	rpm	8,000
Bearing Size	mm	Ø100
Clamping force	KN	18
Lubrication		Grease
Cooling		Oil



Fast and Compact MACHINE SPECIFICATIONS

DH-606
DH-1107
DH-1607



Model	Unit	A	B*	C	D	E
DH-606	mm	2,270	535	1,165	2,020	2,460
DH-1107	mm	3,250	660	3,100	3,500	2,850
DH-1607	mm	3,250	660	3,600	4,500	2,850

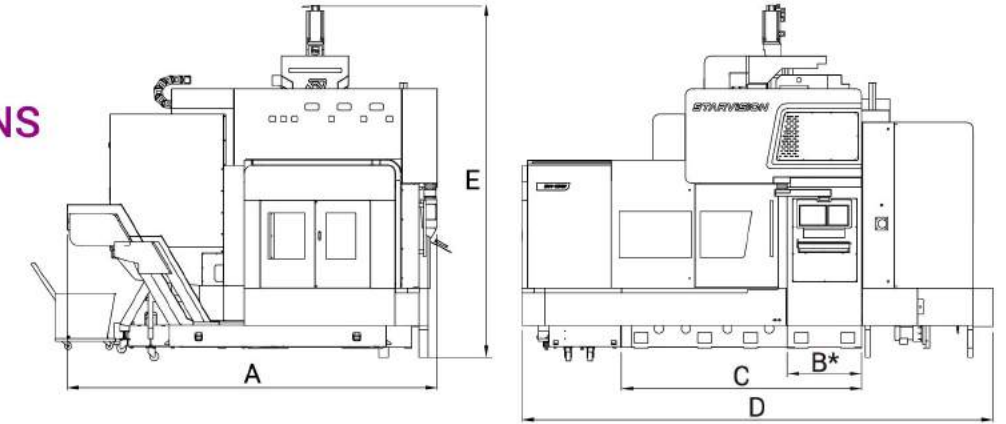
*-Column width

Model	Unit	DH-606	DH-1107	DH-1607
Travel				
X axis	mm	600	1,100	1,600
Y axis	mm	600	750	
Z axis	mm	350	500	
Spindle nose to table	mm	150-500	150-650	
Distance between columns (max. workpiece width)	mm	647 (597)	850 (800)	
Table				
Table dimension (W)	mm	600	1,100	1,600
Table dimension (L)	mm	600	750	
T-slot (width x number x pitch)		14x5x100	22x7x100	
Max. table load	kg	500	1,000	1,500
Spindle				
Spindle motor	kW	7.5	15	
Spindle speed (built-in)	rpm	30,000	20,000	
Spindle taper		HSK-E40	HSK-A63	
Feed				
Rapid feed-rate (X/Y/Z)	m/min	30/30/30		
Cutting feed-rate	mm/min	12,000		
Accuracy				
Position accuracy	mm	±0.005/300; ±0.015/full travel		
	mm	P0.03		
Repeatability	mm	±0.003		
	mm	Ps0.025		
ATC				
Tool storage capacity	pcs	16T	20T	
Max. tool length	mm	150	240	
Max. tool weight	kg	2	8	
Max. tool size	mm	Ø40	Ø60	
Other				
Power consumption	kVA	20	45	
Compressed air	kg/cm ²	5-7		
Machine weight (approx.)	tons	5	11	13
Machine floor space (LxWxH) (approx.)	m	2.1x2.3x2.5	3.6x3.25x3.2	4.5x3.25x3.2

※All specification are subjected to change without prior notice.

Fast and Compact MACHINE SPECIFICATIONS

DH-1312
DH-1612
DH-2012



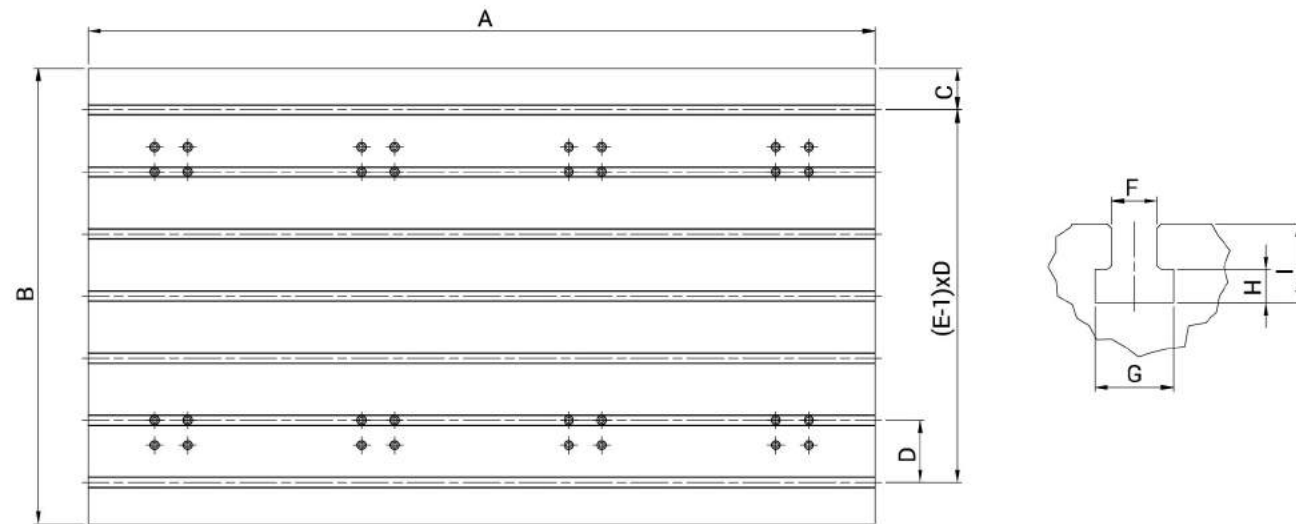
Model	Unit	A	B*	C	D	E
DH-1312	mm	4,000	700	3,000	5,100	4,200
DH-1612	mm	4,000	700	3,600	5,500	4,200
DH-2012	mm	4,000	700	4,400	6,000	4,200

*-Column width

Model	Unit	DH-1312	DH-1612	DH-2012
Travel				
X axis	mm	1,300	1,600	2,000
Y axis	mm	1,200		
Z axis	mm	600 (800 - opt.)		
Spindle nose to table	mm	150-750 (150-950 - opt.)		
Distance between columns (max. workpiece width)	mm	1,300 (1,250)		
Table				
Table dimension (W)	mm	1,200	1,500	1,900
Table dimension (L)	mm	1,100		
T-slot (width x number x pitch)		22x7x150		
Max. table load	kg	2,500	3,000	4,000
Spindle				
Spindle motor	kW	18.5/22		
Spindle speed (direct drive)	rpm	10,000		
Spindle taper		BT-50		
Feed				
Rapid feed-rate (X/Y/Z)	m/min	30/30/30		
Cutting feed-rate	mm/min	10,000		
Accuracy				
Position accuracy	mm	±0.005/300; ±0.015/full travel		
	mm	P0.03		
Repeatability	mm	±0.003		
	mm	Ps0.025		
ATC				
Tool storage capacity	pcs	12T		
Max. tool length	mm	300		
Max. tool weight	kg	20		
Max. tool size	mm	Ø125/Ø180		
Other				
Power consumption	kVA	50		
Compressed air	kg/cm ²	5-7		
Machine weight (approx.)	tons	16	17	19
Machine floor space (LxWxH) (approx.)	m	6.8x5.0x4.2	7.2x5.0x4.2	7.7x5.0x4.2

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Fast and Compact
TABLE AND T-SLOT DIMENSIONS



Model	Unit	A	B	C	D	E	F	G	H	I
DH-606	mm	600	600	100	100	5	14H8	38	16	38
DH-1107	mm	1,100	750	75	100	7	22H8	38	16	38
DH-1607	mm	1,600	750	75	100	7	22H8	38	16	38
DH-1312	mm	1,200	1,100	100	150	7	22H8	38	16	38
DH-1612	mm	1,500	1,100	100	150	7	22H8	38	16	38
DH-2012	mm	1,900	1,100	100	150	7	22H8	38	16	38

Category	Standard & Optional Accessory	DH-606	DH-XX07	DH-XX12
Controller	FANUC 0i-MF controller	●	●	●
	FANUC 31i-MB controller	◎	◎	◎
	MITSUBISHI M70 controller	◎	◎	◎
	SIEMENS 840D controller	◎	◎	◎
	HEIDENHAIN TNC640 controller	◎	◎	◎
Spindle	7.5kW spindle motor	●	X	X
	15kW spindle motor	X	●	X
	18.5/22kW spindle motor	X	X	●
	22/26kW spindle motor	X	X	◎
	8,000rpm 2-step gear drive spindle	X	X	◎
	10,000rpm direct drive spindle	◎	◎	●
	10,000rpm built-in spindle	◎	◎	◎
	15,000rpm direct drive spindle	◎	◎	◎
	20,000rpm built-in spindle	◎	●	◎
	30,000rpm built-in spindle	●	◎	◎
Z axis travel	Z axis travel 350mm	●	X	X
	Z axis travel 500mm	X	●	X
	Z axis travel 600mm	X	X	●
	Z axis travel 800mm	X	X	◎
ATC	Automatic Tool Changer 12 tools	X	X	●
	Automatic Tool Changer 16 tools	●	X	X
	Automatic Tool Changer 20 tools	X	●	X
	Automatic Tool Changer 24 tools	X	X	◎
	Automatic Tool Changer 32 tools	X	X	◎
Splash guard	Fully enclosed splash guard (roof excluded)	X	X	●
	Fully enclosed splash guard (roof included)	●	●	◎
Mechanical	X/Y/Z axes absolute pulse coder	●	●	●
	Rigid tapping	●	●	●
	Automatic lubrication system	●	●	●
	Spindle oil cooler	●	●	●
	Air blast through spindle	●	●	●
	Manual Pulse Generator	●	●	●
	Working lamp	●	●	●
	3-color alarm lamp	●	●	●
	RS-232 interface	●	●	●
	Heat exchanger for electrical cabinet	●	●	●
	Water gun and air gun interface	●	●	●
	Cutting coolant system	●	●	●
	Twin auger chip removal system	●	●	●
	Chain type chip conveyor with cart	●	●	●
	Sub-table	◎	◎	◎
	3 axes manual pulse generator for mold processing	◎	◎	◎
	Coolant through spindle at 20/40/70 bar	◎	◎	◎
	Coolant through tool holder interface	◎	◎	◎
	Air conditioner for electrical cabinet	◎	◎	◎
	Transformer	◎	◎	◎
	Oil skimmer	◎	◎	◎
	Oil mist collector	◎	◎	◎
	Others	Leveling bolts & blocks	●	●
Tool box		●	●	●
CE norm		◎	◎	◎
Measurement	Heidenhain Linear Scale	◎	◎	◎
	Automatic tool measuring system	◎	◎	◎
	Automatic work piece measuring system	◎	◎	◎
4th axis function	CNC Rotary table	◎	◎	◎
	4th axis preparation	◎	◎	◎
Milling head function	Manual: 90° angular milling head/ high speed 2-axis milling head/ universal head/ extend head/ boring head	◎	◎	◎
	Manual Head Station (Table type)	◎	◎	◎

Optional : ◎ Standard : ● Inapplicable : X