

MCH-630

MCV-720

5-AXIS VERTICAL MACHINING CENTER

MCV-1020A

DMX-320

MCV-1020BA

MCV-1250

MCV-1450

MCV-1700

MCV-2100

MCV-2600

DCM-2213



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022-D2-00-019

1000/04, 2011

The Latest and Best Quality Machinery.

DAHLIH®

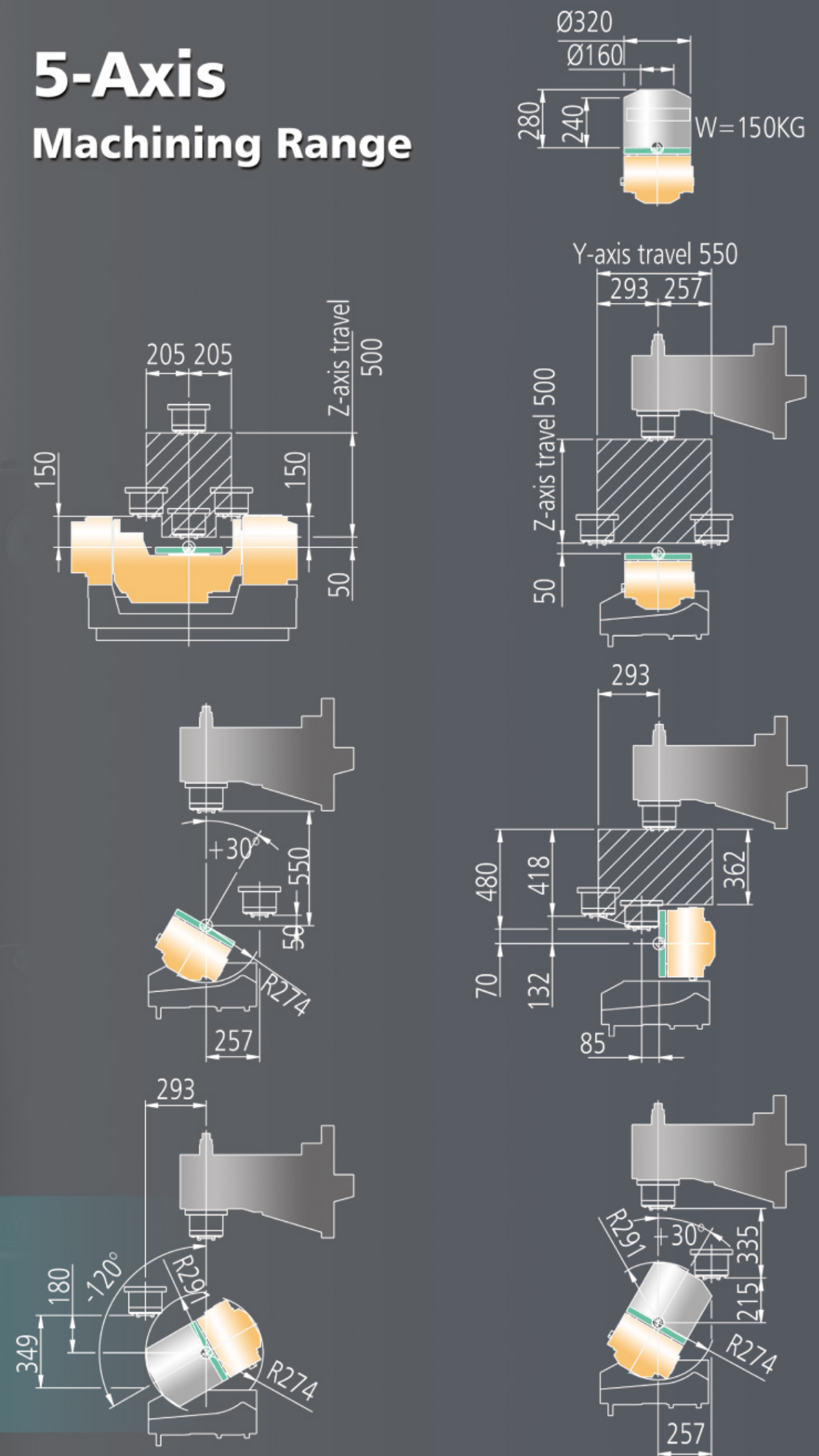
Maximize Rigidity and Stability with Unique Structural Design

Tilting
+30° ~ -120°

Tilting with Rotating Table (0.001°)

- » The brake mechanism employs a hydraulic brake. The design of air/hydraulic intensifier eliminates the use of a hydraulic power unit. It requires only air power to produce braking force.
- » The tilting axis utilizes a double-sided expansion brake for increased brake force, while minimizing vibration.
- » Tilting axis allows for +30° ~ -120° tilting angle.

5-Axis Machining Range



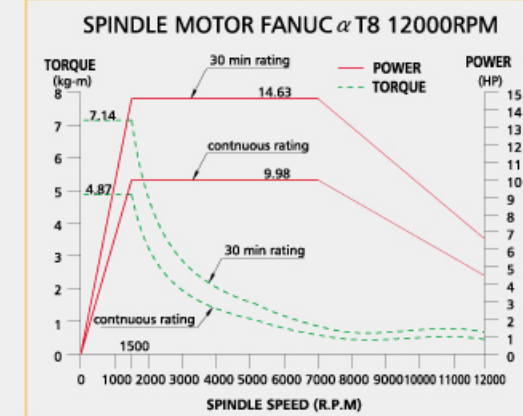


DMX-320

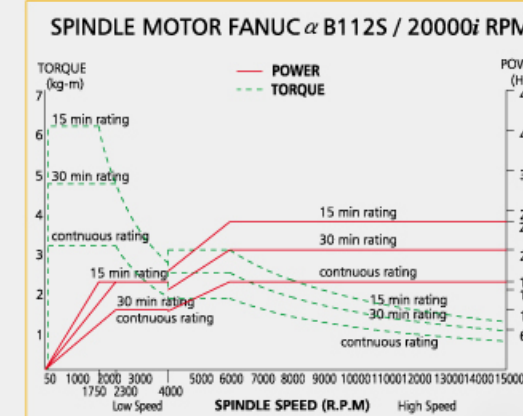
Quality and Efficiency The Perfect Solution from DAHLI

- » Extra wide column base provides a solid foundation for precision machining.
- » All major castings are designed through "Finite Element Analysis" software that ensures excellent machine rigidity and cutting accuracy.
- » The feed system on three axes is by a separate construction for reducing ball screw length, while ensuring excellent rotational inertia during high speed cutting.
- » The three axes slideways are mounted with ball/roller type linear guide ways.
- » Span on Z-axis linear way is increased to 370 mm for guaranteed stability.
- » Span on Y-axis linear way is increased to 760 mm.

10,000 / 15,000 RPM Direct Drive Spindle (Optional)



15,000 RPM Built-in Type Spindle (Optional)



Direct Drive Spindle

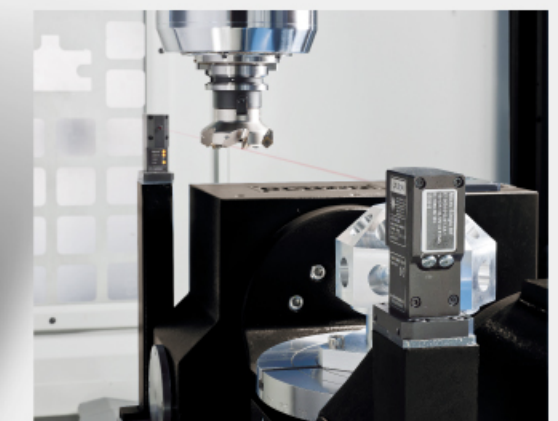
Designed and Engineered with
Speed and Precision in Mind!



Powerful Controllers and optional features for wide selection

LATEST ADVANCED CNC CONTROLLER

Equipped with Fanuc, Heidenhain and other CNC controllers.



AUTOMATIC TOOL LENGTH MEASURING DEVICE
(RENISHAW or BLUM)

SPECIFICATIONS, ACCESSORIES AND DIMENSIONS

SPECIFICATIONS

MODEL		DMX-320	
TABLE			
Table size		Ø320 mm	
T-Slots (Size x Number)		12H7 x 4	
Max. workpiece weight		150 kg	
TRAVEL			
X axis / Y axis / Z axis		600 mm / 550 mm / 500 mm	
Table top surface to spindle nose		50~550 mm	
Slideway type (X, Y & Z axis)		Linear Guideway	
FEED			
Rapid traverse rate	X axis	40 m/min	
	Y axis	40 m/min	
	Z axis	30 m/min	
Cutting feed rate		18000 mm/min	
Minimum Input Increment		0.001mm	
SPINDLE			
Driving system		Direct Drive	
Spindle motor (30 min.rating/continuous rating)		7.5kW (10HP) / 5.5kW (7.5HP)	
Type of tool shank		N.T.40	
Spindle speed		10000 rpm	
Spindle bearing bore diameter		Ø70 mm	
Spindle max. torque		47N-m	
Cooling / Lubrication		Oil / Grease	
A.T.C			
Tool magazine capacity		24T	
Tool holder		BT40	
Pull stud		45°	
Max. tool weight		7 kg	
Max. tool length		265 mm	
Max. tool Dia.		Ø95 mm	
Max. tool Dia. (adjacent pockets empty)		Ø185 mm	
Tool selection		Random	
MOTORS			
X axis drive motors		4kW (5.3HP)	
Y axis drive motors		4kW (5.3HP)	
Z axis drive motors		4kW (5.3HP)	
4 th / 5 th Axis			
Max. work piece size		Ø320 x 280 mm	
Torque		25kg-m	
Direction		Rotating Axis	Tilting Axis
Brake type		Drum Type	Double Drum Type
Angles		360°	+ 30°~-120°
Max. speed		16 rpm	16 rpm
OTHER			
Power		36KVA	
Pneumatic pressure		6 kg/cm ²	
Coolant Pump		3/4 HP	
Coolant tank capacity		280 L	
Net weight		7000 kgf	

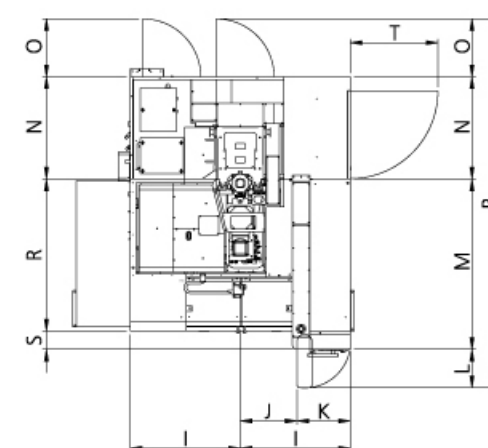
Specifications are subject to change without prior notice.

» STANDARD

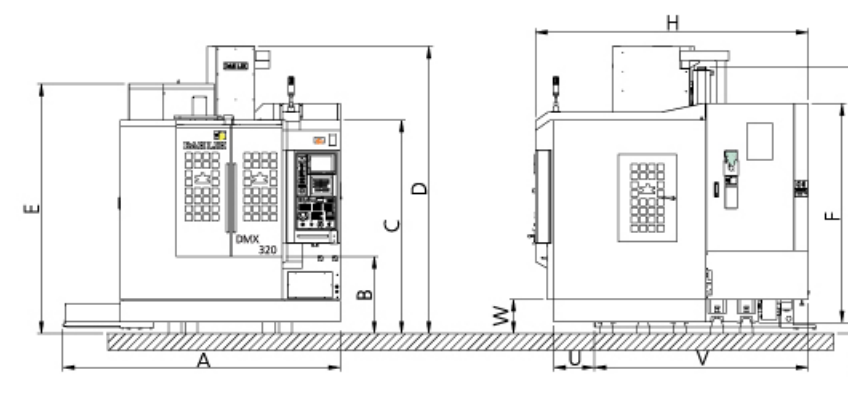
- Heat exchanger
- Removable manual pulse generator
- Enclosed splash guard
- RS-232 interface
- Embedded Ethernet
- Automatic power off
- Call light
- Automatic lubrication equipment
- Work light
- Tool kit
- Spare fuses
- Swing type operator panel
- Spindle oil cooler
- 24 tools cam type ATC
- Rigid tapping
- Chip augers on base
- 5 axes control / 4 axes simultaneous function

» OPTIONS

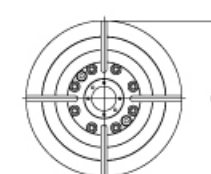
- Screw type chip conveyor with chip bins
- Flat type chip conveyor and chip bin
- Coolant through spindle with filter
- Bed coolant wash
- Automatic tool length measuring device
- Automatic workpiece measuring device
- Linear scale
- 30, 32, 40 tools cam type ATC
- 12,000 rpm/15,000 rpm direct drive spindle with 15 HP
- 15,000 rpm direct drive spindle with 25 HP
- 15,000 rpm built-in spindle with 20 HP
- Hollow ballscrew with cooling system
- 5 axes simultaneous function



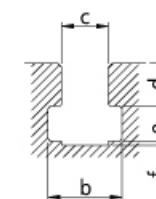
MACHINE DIMENSIONS



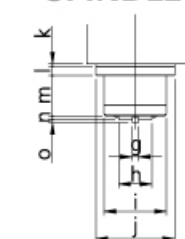
TABLE



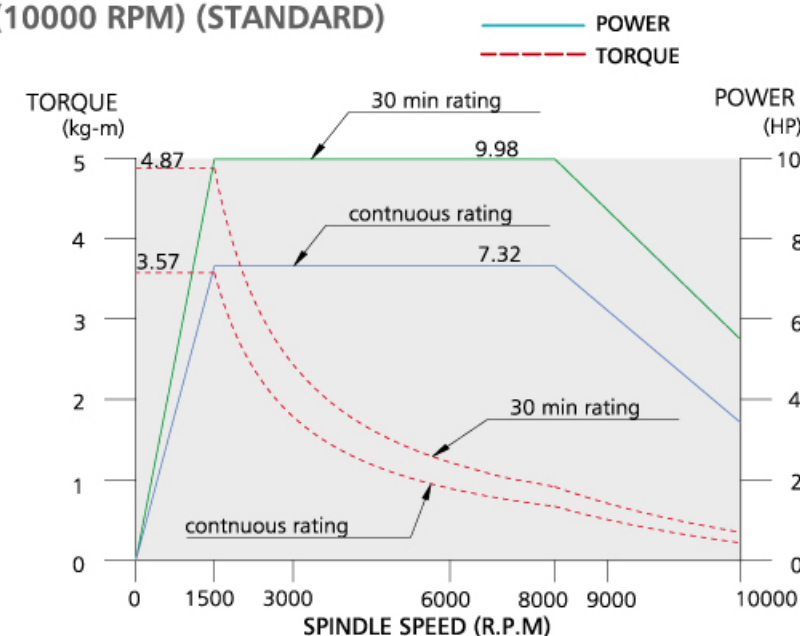
T-SLOT



SPINDLE



SPINDLE POWER / TORQUE DIAGRAM (10000 RPM) (STANDARD)



EXTERNAL DIMENSIONS

Model	DMX-320	
Unit	mm	inch
A	2850	112.20
B	790	31.10
C	2190	86.22
D	2948	116.02
E	2562	100.87
F	2250	88.58
G	2688	105.83
H	2800	110.24
I	1730	68.11
J	582.5	22.93
K	547.5	21.56
L	392.5	15.45
M	1750	68.90
N	1050	41.34
O	595	23.43
P	3895	153.35
R	1560	61.42
S	190	7.48
T	900	35.43
U	415	16.34
V	2195	86.42
W	350	13.78

TABLE & T-SLOT

Model	DMX-320	
Unit	mm	inch
a	320	12.6
b	19	0.75
c	12	0.47
d	12	0.47
e	8	0.31
f	1	0.04
g	15.9	0.63
h	85	3.35
i	160	6.30
j	202	7.95
k	5	0.20
l	24	0.94
m	104	4.09
n	9	0.35
o	8	0.31