The Latest and Best Quality Machinery.

DAHLIH®

VERTICAL MACHINING CENTER



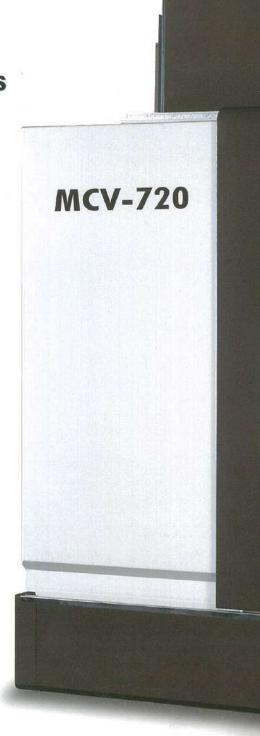
The Latest and Best Quality Machinery.

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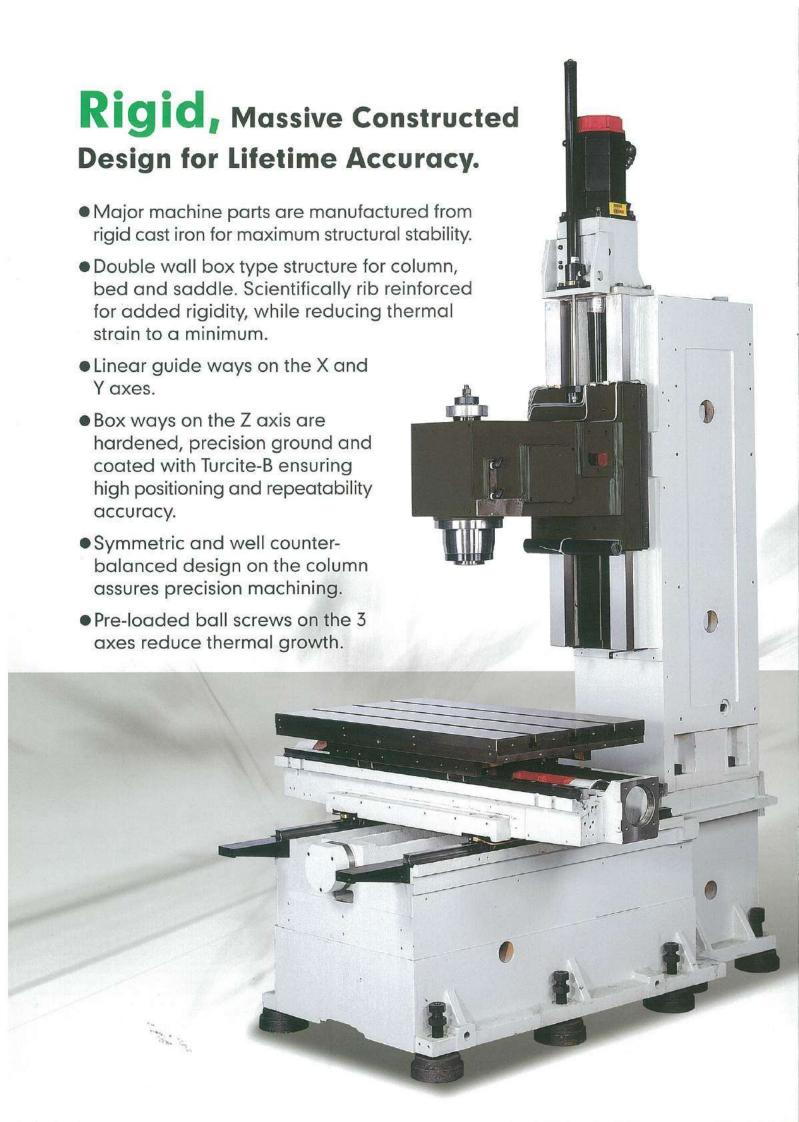
VERTICAL MACHINING CENTER

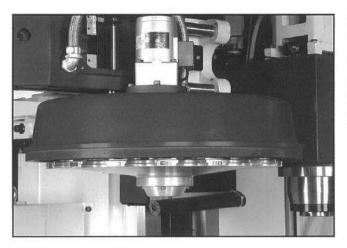
A Design Concept that Combines Precision and Dependability.

- Built with Dah Lih's tradition of high reputation and fine craftsmanship.
- The major castings are designed and analyzed by advanced "Finite Element Analysis" for optimum structural rigidity and accuracy.
- The entire machine is ruggedly constructed throughout for lifetime accuracy and rigidity.
- Choice of carousel type (16 tools) or CAM type (24 tools) magazine.
- Linear guide ways on X and Y axes. Box ways on the Z axis.
- Coolant jets around the spindle ensure excellent heat removal from the cutting tool and workpiece.
- 8,000 RPM spindle is standard.
- 15,000 RPM high speed spindle is optional with direct drive spindle.
 - ★High rigidity, high precision, minimum vibration, minimum noise. Easy to install and maintain.



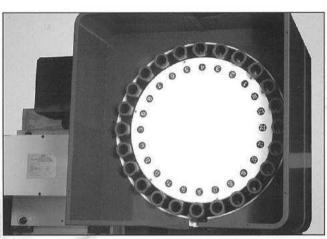






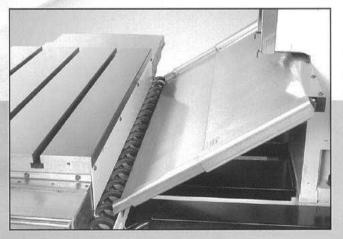
CAROUSEL TYPE MAGAZINE

The standard carousel type magazine provides a loading capacity of 16 tools. It features bidirectional random tool selection for highly efficient tool changing



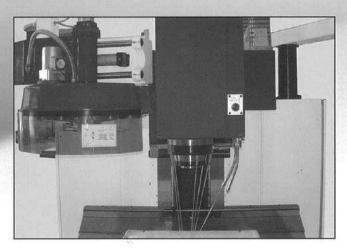
CAM TYPE MAGAZINE (OPTIONAL)

The CAM type magazine rotation is driven by a cylindrical cam for fast and dependable tool change. Tool loading capacity is 24 tools. random tool selection provides highly efficient tool changing.



FRONT MOUNTED CHIP AUGER

During machining, chips are flushed and fall down to the front mounted chip auger for delivering to the chip conveyor. It efficiently removes chips to eliminate affection from chip heat and keeps work area clean at all times.



COOLANT AROUND SPINDLE

The coolant jets around the spindle effectively remove heat from the cutting tool and the workpiece ensuring high cutting accuracy.

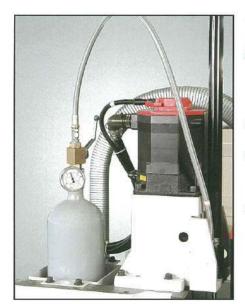


LATEST ADVANCED CNC CONTROLLER

Equipped with Fanuc, Heidenhain and others CNC controllers.

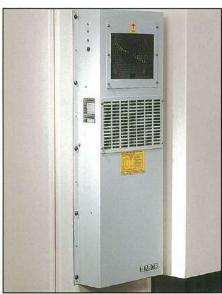


Coolant & Air Gun



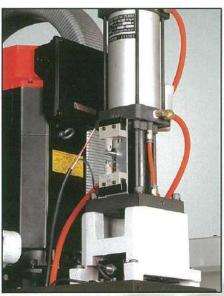
NITROGEN GAS COUNTER-BALANCE (OPTIONAL)

- The newly designed nitrogen gas counter-balancing system employs an accumulator which does not require additional power.
- No hydraulic power unit is required.
- No noise, extremely stable motion, no resonance and greatly upgrades machining efficiency.
- Easy to adjust servo parameters.



HEAT EXCHANGER FOR CONTROL CABINET

The high performance heat exchanger ensures a constant temperature inside the control cabinet. It provides protection for electronic components, controller and motor driver.



TOOL KNOCKING DEVICE

- •The tool knocking device with floating design features a buffering function which not only fully avoids damage on the spindle and bearings during tool release, it also extends the service life of the spindle.
- Tool knocking motion is actuated by an air cylinder for efficient tool release.



WORK LIGHT

Two quartz work lights provide lighting for the working area. They feature soft illumination without being irritating to the operator's eyes.



SPINDLE

Spindle & Ballscrew Cooling Unit

More Powerful and Efficient Operations with Extra Optional Accessories



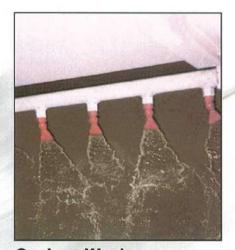
Automatic Tool Length Measuring Device



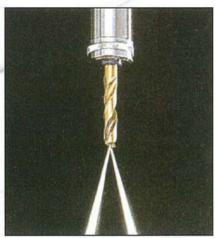
Rotary Table With 4th Axis Control



4th Axis Connector



Coolant Wash



Coolant Through Spindle Device



SCREW TYPE CHIP CONVEYOR





FLAT TYPE CHIP CONVEYOR

Direct Drive Spindle Designed and





EQUIPMENT FOR GRAPHITE MACHINING

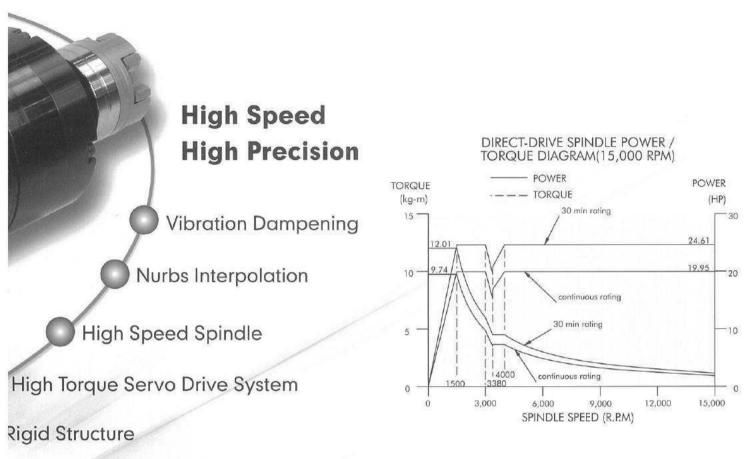
The equipment is recommended when performing graphite machining. It prevents graphite dust from splashing to the working environment which may causes damage to the operator's health and circuit board in the control box.

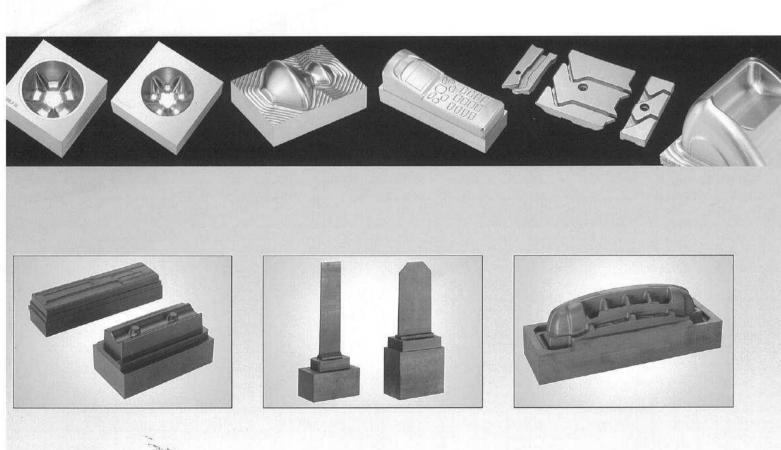




For wet cutting, centrifuge coolate purifying unit, the water curtain guard and graphite filtration device (separator and filter bag) are recommended.

Engineering with Speed and Precision in Mind!





SPECIFICATIONS:

MODEL		UNIT	MCV-720
TABLE			
Working Surface		mm (inch)	950 x 560 (37.40 x 22.05)
T-Slots (Size x N	Number)	mm (inch)	18 x 3 (0.71 x 3)
Max. Table Loc	ıd	kg (lbs)	500 (1100)
TRAVEL			
Longitudinal Tr	avel (X)	mm (inch)	720 (28.35)
Cross Travel (Y)	mm (inch)	460 (18.11)
Headstock Travel (Z)		mm (inch)	510 (20.8)
Distance Between Spindle End and Table Top		mm (inch)	150-660 (5.91-25.98)
Distance Between Spindle Center and Column Surface		e mm (inch)	480 (18.90)
SPINDLE			
Spindle Nose			N.T. 40
Spindle Speeds		R.P.M.	8000
Spindle Speed Range			Infinite variable
FEED			
Cutting Feed	mm/mi	n (inch/min)	10000 (393.7)
Rapid traverse	mm/mi	n (inch/min)	30/30/20 (1181/1181/787
Minimum Input	Increment	mm (inch)	0.001 (0.0001)
ATC (Automa	cic Tool Changer)		
Tool Holder			BT 40
Tool Storage Capacity		Tools	16
Max. Tool Dia. x Length Ø x		x mm (inch)	90 x 250 (3.54 x 9.84)
Max. Tool Weight		kg (lbs)	6 (13)
Tool Selection			Bi-Directional
MOTORS			
Spindle Drive	Continuous Rating	Kw (HP)	7.5 (10)
Motor	Rated Output for 30 Minute	s Kw (HP)	11 (14.7)
Drive Motors	X, Y, Z Axis	Kw (HP)	1.2 (1.6), 1.2 (1.6), 3.0 (4)
MACHINE WE	IGHT SPACE AND PACKI	NG	
Floor Space		mm (inch)	3118x2640(122.76x103.94)
Net Weight		Kg (lbs)	4400 (9680)

Specifications are subject to change without prior notice.

STANDARD ACCESSORIES:

- Heat Exchanger
- Removable Manual Pulse Generator
- Coolant Around Spindle
- Spiral Type Chip Conveyor
- Enclosed Splash Guard
- RS-232 Interface
- Automatic Power Off
- Call Light
- Automatic Lubrication Equipment
- Work Light
- Tool Kit
- Spare Fuses
- Pendant Type Operator Panel
- Spindle Cooler
- Rigid Tapping

SPECIAL ACCESSORIES:

- Screw type chip conveyor & chip bins
- Flat Type Chip Conveyor
- Rotary Table With 4th Axis Control
- 4th Axis Connector
- Coolant Through Spindle With Filter
- Coolant Wash

Automatic Tool Length Measuring

- Device
- Automatic Centering Device
- (Renishaw MP-10)
- Automatic Pallet Changer
- Cam Mechanism ATC (24 Tools)

Max. Tool	Ø x mm	77 x 300
Doa. x Length	Ø x inch	3.03 x 11.81
Max. Tool	kg	7
Weight	lbs	15
Max. Tool Dia. of adjacent pots are empty	Ømm	127

- 10,000/12,000/15,000 rpm Spindle Speeds
- Graphite Filtering System

MACHINE **DIMENSIONS:** 0 щО TA: T-SLOT **TABLE SPINDLE** q o p 0 SPINDLE POWER / TORQUE DIAGRAM (8000 RPM) (STANDARD) POWER POWER TORQUE **TORQUE** (kg-m) (HP) -14 30 min rating -13 - 12 continuous rating 10 30 min rating 3 continuous rating 1,500 2,000 3,000 4,000 5,000 6,000 7,000 8,000 SPINDLE SPEED (R.P.M)

EXTERNAL DIMENSIONS

TYPE.	720	
unit	mm	inch
Α	2170	85.43
В	490	19.29
С	1915	75.39
D	2675	105.31
E	2570	101.18
F	1915	75.39
G	2015	79.33
Н	2565	100.98
1	3570	140.55
J	762	30
K	1935	76.18
L	3695	145.47
М	3140	123.62
N	1437	56.57
0	3205	126.18

TABLE & T-SLOT

TYPE.	720	hately fil
unit	mm	inch
a	950	37.4
b	720	28.35
С	575	22.63
d	460	18.11
е	65	2.56
f	105	4.13
g	150	5.91
h	105	4.13
i	50	1.97
j	31.5	1.24
k	18	0.71
1	13.5	0.53
m	20	0.79
n	138	5.43
0	88.88	3.5
р	44.45	1.75
q	15.9	0.63
r	8	0.31
S	13	0.51
t	20	0.79



DMV-800 Traveling Column Vertical Maching Center PT-86 Rortal Type Machining Center DMH-500 Horizontal Maching Center



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