

A large, stylized green letter 'L' is positioned on the left side of the image, extending from the top to the bottom. The background is a solid dark gray.

LYMCO

THE EASY CHOICE

WHY LOOK ELSEWHERE?

We know you wish not having to worry about half the things you worry about today.

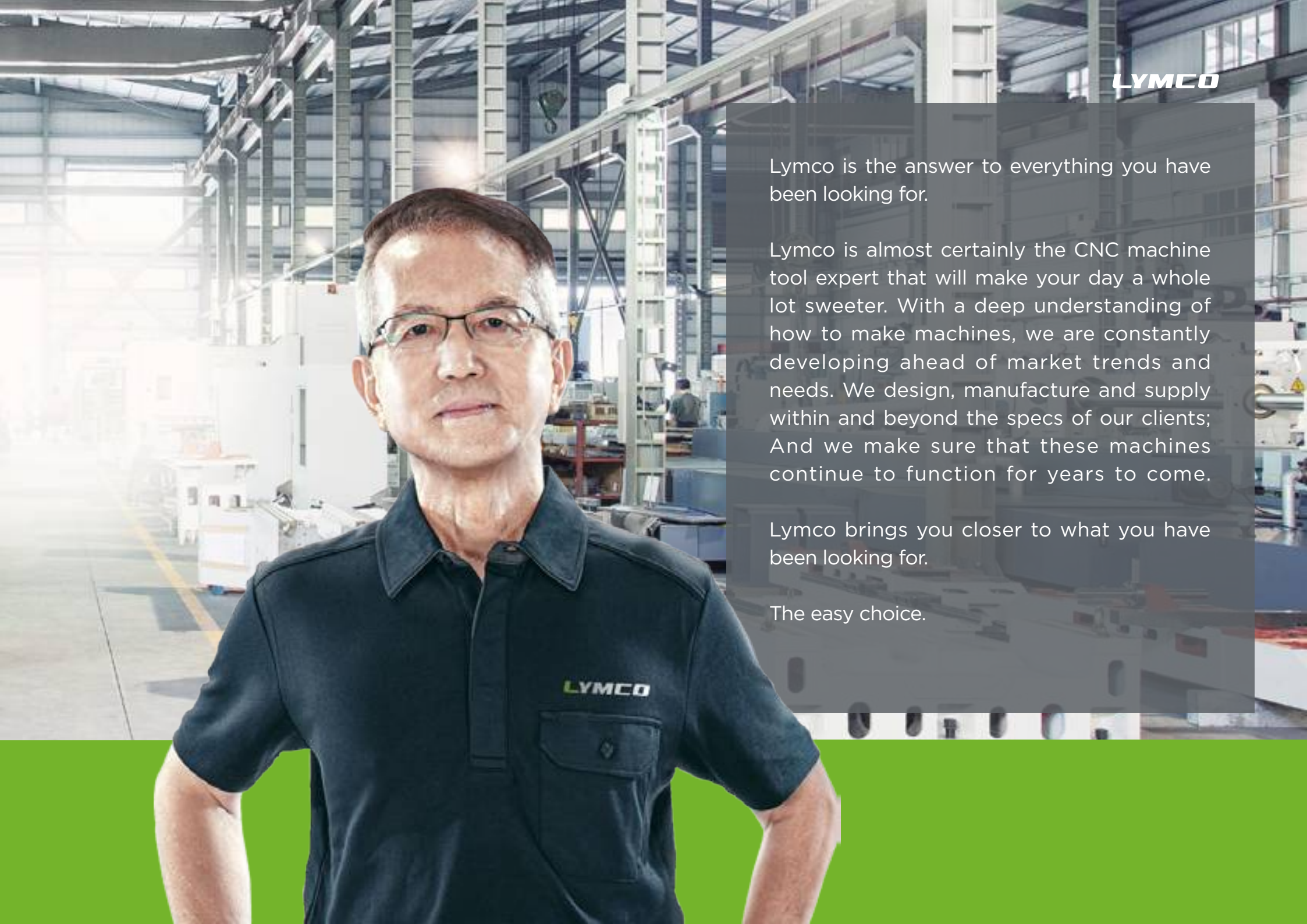
We understand that suppliers delivering on-time and within your required specs is essential.

We realize that talking to someone who actually cares about you, let alone understands your language, is really important. And it's even better if he has the answers to your questions.

We see that you want a wide choice of right machines to choose from, all of which have been certified to be reliable and performant.

We get it.



A man with glasses and a dark polo shirt with the Lymco logo stands in a large industrial factory setting. The background shows complex machinery and structural elements of the facility. The bottom of the image has a solid green overlay.

LYMCO

Lymco is the answer to everything you have been looking for.

Lymco is almost certainly the CNC machine tool expert that will make your day a whole lot sweeter. With a deep understanding of how to make machines, we are constantly developing ahead of market trends and needs. We design, manufacture and supply within and beyond the specs of our clients; And we make sure that these machines continue to function for years to come.

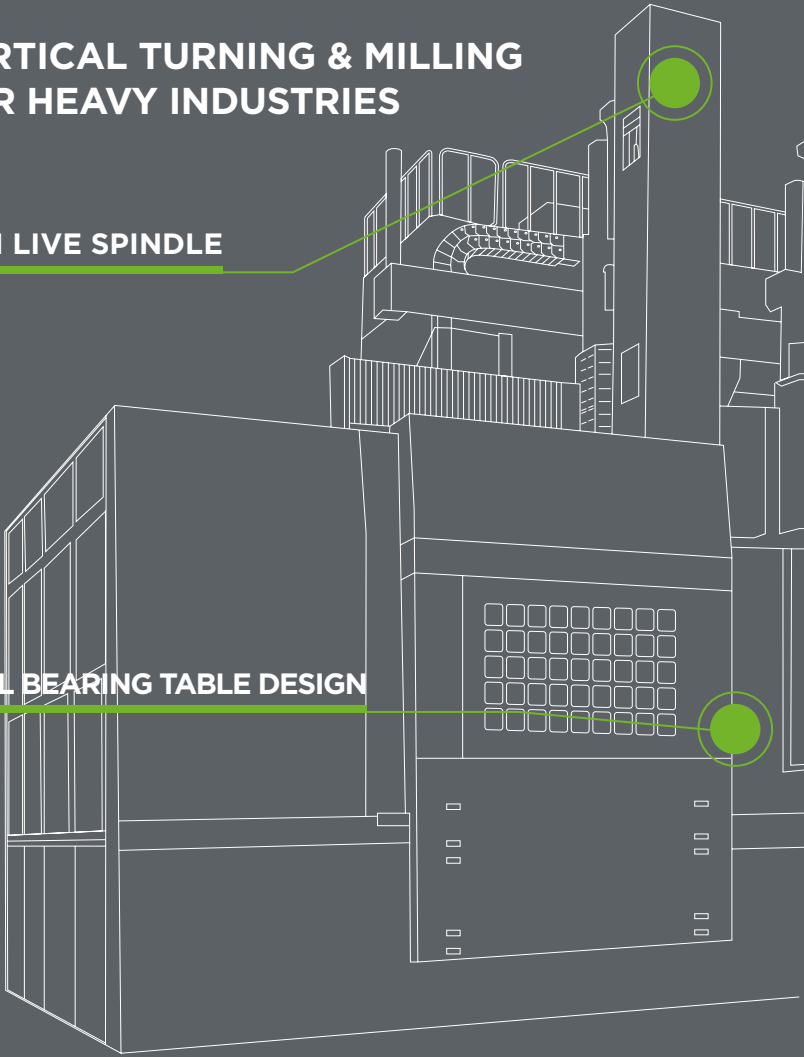
Lymco brings you closer to what you have been looking for.

The easy choice.

DV

**VERTICAL TURNING & MILLING
FOR HEAVY INDUSTRIES**

RAM LIVE SPINDLE



DUAL BEARING TABLE DESIGN

148.5mm(w) X 210mm(h)

THE EASY CHOICE

148.5mm(w) X 210mm(h)

DUAL BEARING TABLE DESIGN

Dual bearing design of hydrostatic pressure rail and cross-tapered roller bearings

STANDALONE TOOL CHANGER

Tool change at any crossrail (W axis) position.
Tool to Tool time in 30 seconds

RAM LIVE SPINDLE

Equipped with steel forged ram with 300x300mm cross sections to handle heavy applications

MULTI-TASKING LIVE TOOLING

Standard optical scale on C axis to provide excellent milling, drilling, tapping, and threading performance

FULL 3 AXIS MILLING CENTER

Enabled by Y-axis capacity combined with automatic milling heads allow highly flexible job assignment



MULTI-TASKING LIVE TOOLING



The DV series is designed and built to be highly customizable to accommodate special needs such as larger turning diameter, longer turning stroke, and higher production capacity.

All DV series vertical lathes can be equipped with Y-axis to provide full milling center capacity. DV-1000MTB, the latest and smallest model, is a vertical turning center + Y axis moving column, that allows one setup for turning, milling, drilling and tapping.

STANDALONE TOOL CHANGER

THE EASY CHOICE

SPECIFICATION

Model	DV-3000	DV-4000
Table Diameter (mm)	Ø 3,000	Ø 4,000
Max. Turning Diameter (mm)	Ø 3,400	Ø 4,400
Max. Swing Diameter (mm)	Ø 3,400	Ø 4,400
Max. Turning Height (mm)	2,000	2,300
Max. Table Load (kg)	22,000	28,000
Spindle speed (rpm)	2-32 (33-100)	1-16 (16-60)
Max. Torque of Spindle (N.m)	68,100	118,400
Table Drive Motor (kW)	60/75	100
Cross Travel X axis (mm)	2,300	2,800
Vertical Travel of ram Z axis (mm)	1,200 (1,500)	1,350 (1,500)
Vertical Travel of crossrail W Axis (mm)	1,400	1,700
Moving Column Y Axis (mm)	-	-
Rapids on X Axis (mm/min)	8,000	7,000
Rapids on Z Axis (mm/min)	10,000	10,000
Rapids on W Axis (mm/min)	1,000	1,000
Rapids on Y Axis (mm/min)	-	-

Live spindle with C axis	DV-3000M	DV-4000M
Max. Live tooling spindle speed (rpm)	2,500	2,500
Max. Live tooling spindle motor (kW)	11/15	15/18.5

DUAL BEARING TABLE

118,400 Nm Max. torque

32° Celsius in an ambient temp of 22°

Up to 40 tons of loading capacity.

The Table

Turning table sits at the center of a VTC's capacity, and we want to make sure that you, the user, is delivered the confidence of the machine's turning power throughout the lifespan of our machine.

Technology

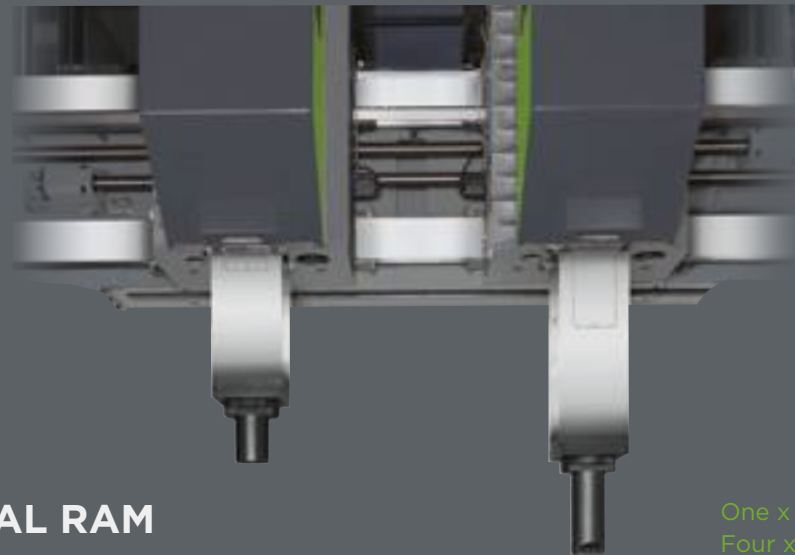
Dual bearing design of hydrostatic pressure rail and cross-tapered roller bearings.

European made cross tapered roller bearings via sophisticated assembly procedures.

1:1000 C-axis gear for stable mill drill tap performance.



THE EASY CHOICE

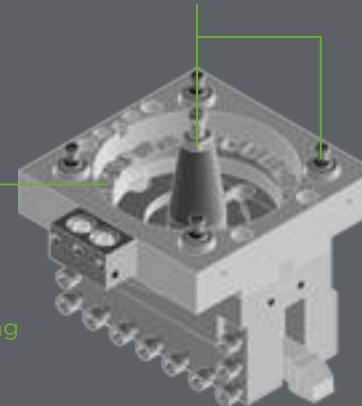


DUAL RAM

It does most of the heavy work, and it sustains the direct stress from various cutting jobs. So the DV series VTL is equipped with steel forged ram with 300x300mm cross sections to handle all types of applications.

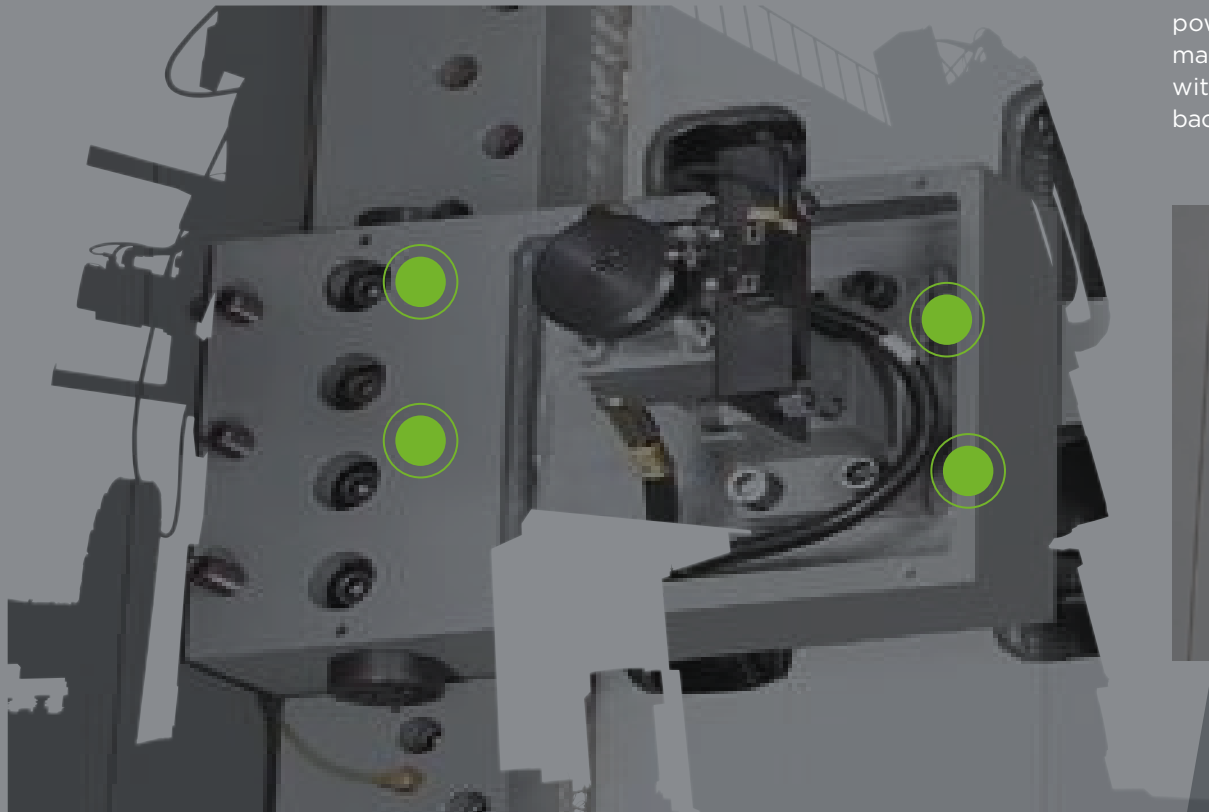
One x ISO-50 Taper +
Four x DIN-40 Taper

Precision ground coupling



DUAL MAGAZINE & ISOLATED ARM TYPE TOOL CHANGE

Unmatched Steadiness
4 Sets Of Independent Hydraulic Locks



The Crossrail

The less time spent for reprocessing, the more productive and profitable for the owner it is. Therefore our engineers created the hybrid crossrail system with precision grinded slide ways for ram travel while assuring great cutting power as well as a horizontally placed roller guide for maximum damping. Crossrail balanced by hydraulic unit with 4 independent hydraulic locks at the top and the back of cross rail and column T-slots.



THE EASY CHOICE

DUAL MAGAZINE & ISOLATED ARM TYPE TOOL CHANGE

Unlimited Number of tools with Capto availability
Tool to Tool time in **30 seconds**

The Automatic Tool Change Mechanism

Our engineers want to eliminate any dynamic stress on the machine body, so they came up with the idea of an independent tool change arm.

With this design, owners of DV series can enjoy Tool change as any crossrail (W axis) position.

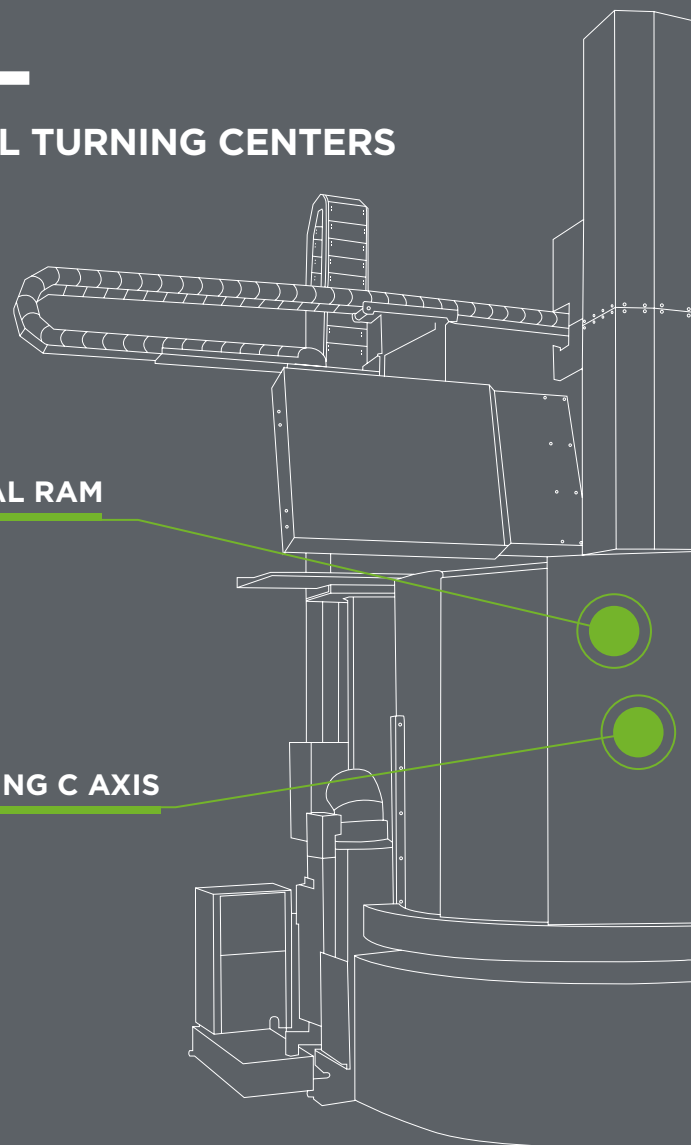


RAL

VERTICAL TURNING CENTERS

OCTAGONAL RAM

LIVE TOOLING C AXIS



148.5mm(w) X 210mm(h)

THE EASY CHOICE

DUAL BEARING TABLE

Dual system of heavy-duty roller and taper rollers for axial and radial loads

OCTAGONAL RAM

The octagonal ram has the strength to handle heavy turning jobs and a better clearance to reach internal bore holes

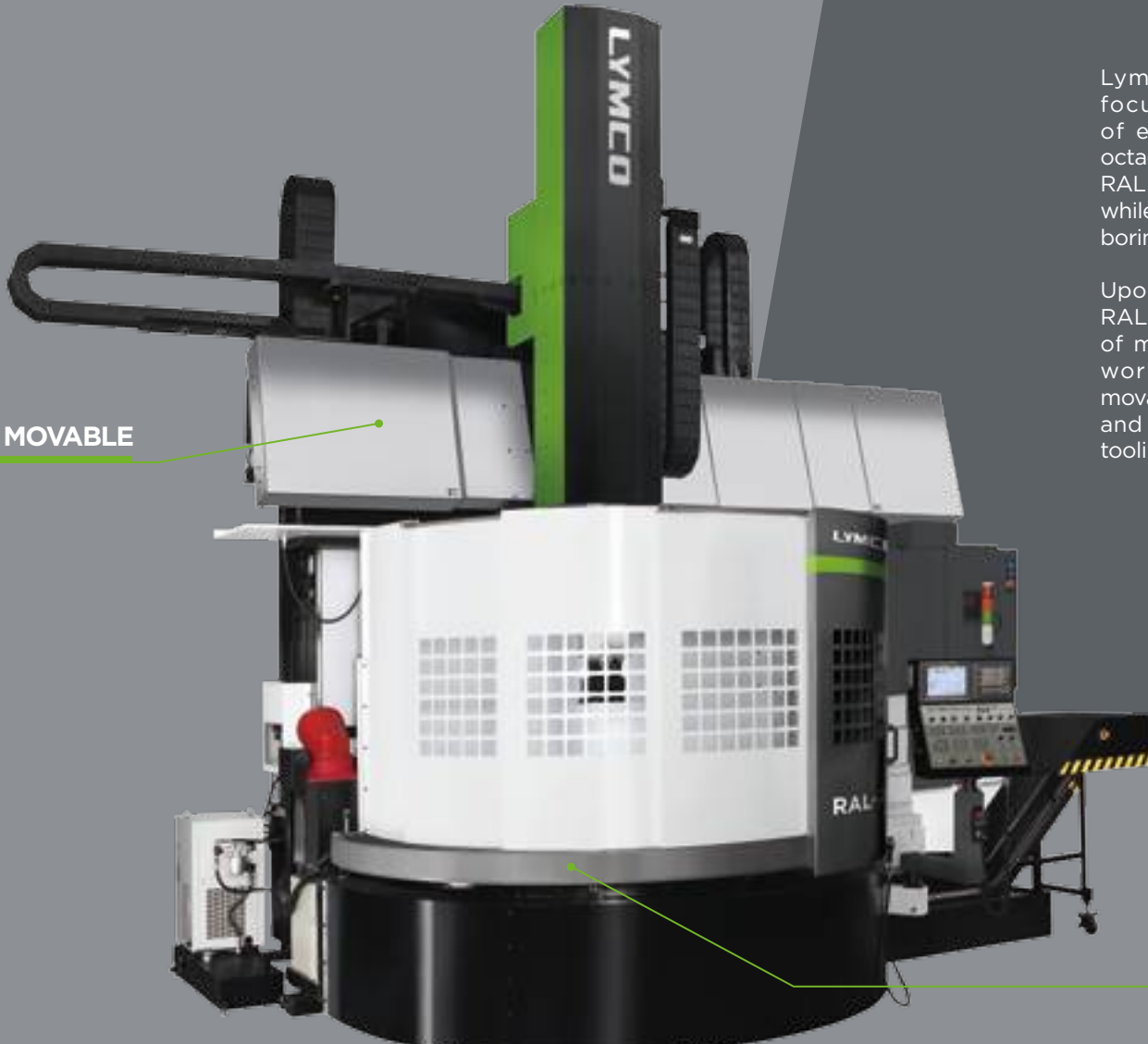
CROSSRAIL

15° slant bed designed for RAL-16P and RAL-20P. Hardened to 56 degrees rockwell and precision ground, hand scraped box guide way

LIVE TOOLING C AXIS

Available to mill, drill, and tap in a single setup greatly reduce the second machining process. Optional angular milling head to increase radial tooling capacity





CROSSRAIL MOVABLE

Lymco RAL vertical turning center focuses on general turning needs of everyday shops. Designed with octagonal ram and hydrostatic table, the RAL vertical lathe can handle deep cuts while enjoy a good clearance for internal boring.

Upon adding the C axis function, the RAL vertical turning center is capable of milling, drilling, and tapping on a workpiece right after turning. The movable cross rail provides flexible high and low profile setup. Optimal radial tooling is available for horizontal jobs.

DUAL BEARING TABLE

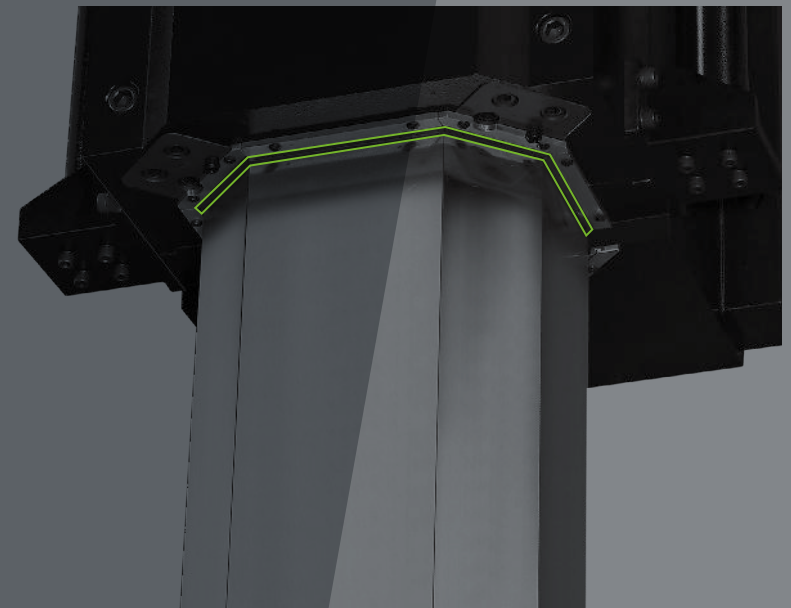
MAXIMUM RESULT

The RAL table is supported by a **dual system of premium roller and taper rollers** for axial and radial cutting force. The dual system generates superior performance to resist heat expansion, asymmetrical loading, and heavy cutting. Machine servicing life are prolonged and stable results are generated.

The transmission systems are built by gears of hardened alloy to generate a enormous torque of **23,270Nm**. This massive output allows the machine to guide through all kinds of heavy cutting jobs while leaving a brilliant finishing surface.

OCTAGONAL RAM

High quality finishing surface and accuracy is achieved for turning and boring jobs, thanks to the octagonal ram design. The octagonal ram design provides **23% more clearance** than a traditional square ram. Unique octagonal ram records outstanding performance in terms of thermal expansion control and excellent straightness. This feature also demonstrates superior through-hole capacity to allow better deep hole boring clearance.



THE EASY CHOICE

15° SLANT BED CROSSRAIL

RAL-16P and RAL-20P are equipped with a 15° slant bed crossrail design for warp resisting and rigidity promoting features. 5 positions are implemented over the 800mm crossrail moving range for flexible parts handling and tooling. Every position is locked by independent hydraulic clamping cylinders plus large taper lock pins to ensure maximum cutting safety. Each of the engaging positions is designed to take crossrail rigidity to the next level. Heavy duty locking system also strengthens RAL's side cutting capacity while promoting repeatability and eliminating overhang problems of the ram.



LIVE TOOLING SYSTEM

For best productivity, a turning center is always preferred than a pure vertical lathe. Being able to mill, drill, and tap in a single setup greatly reduces the second machining process. For best cutting result, optical scales for the C-axis are a standard equipment for all RAL-M turning centers. Angular milling head is also an option to handle radial direction work.



THE EASY CHOICE

SPECIFICATION

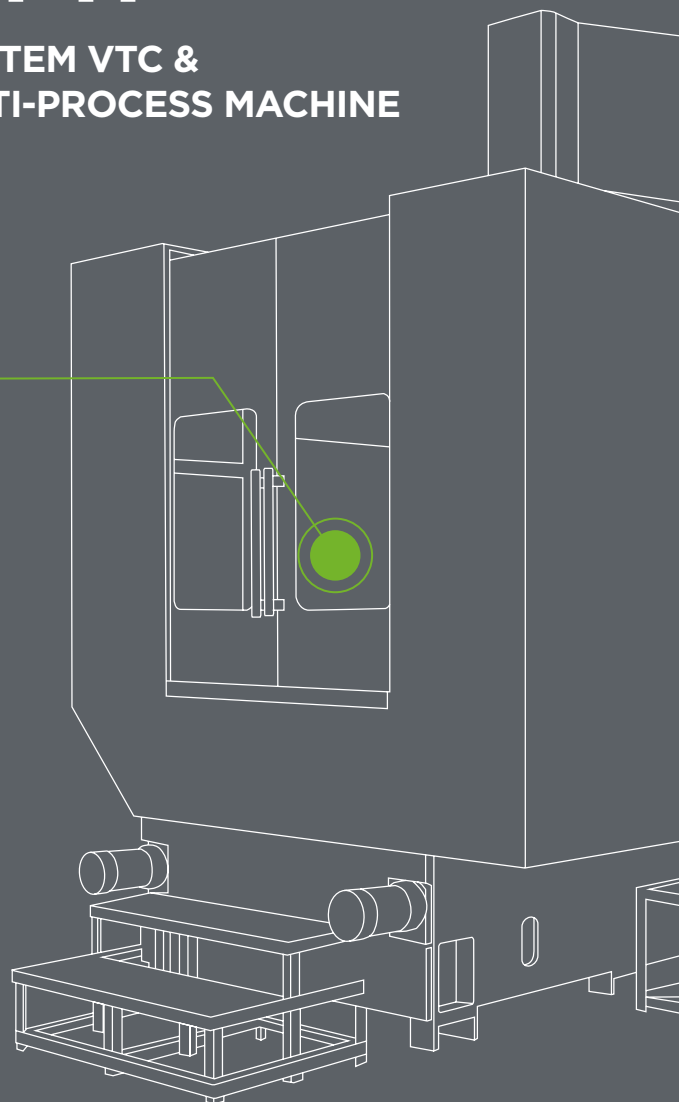
Model	RAL-12P	RAL-16P	RAL-20P
Table Diameter (mm)	Ø 1,250	Ø 1,600	Ø 2,000
Max. Turning Diameter (mm)	Ø 1,500	Ø 1,900	Ø 2,400
Max. Swing Diameter (mm)	Ø 1,600	Ø 2,000	Ø 2,500
Max. Turning Height (mm)	1,250	1,600	1,600
Max. Table Load (kg)	6,000	10,000	13,000
Table Speed (rpm)	1-300	1-250	1-200
Max. Torque of Table (N-m)	10,655	18,790	23,270
Cross Travel X axis (mm)	-200- +950	-200- +1,125	-200- +1,380
Vertical Travel of ram Z axis (mm)	900	1,000	1,000
Vertical Travel of Cross rail W Axis (mm)	800	800	800

Live spindle with C axis	RAL-12MP	RAL-16MP	RAL-20MP
Spindle speed (rpm)	24-2,400	50-2,250	50-2,250
Max. Torque of Spindle (N.m)	196	196	196
Rapids on X Axis (m/min)	12	12	12
Rapids on Z Axis (m/min)	10	10	10
Spindle Motor (kw)	11/7.5	15/11	15/11

VTM-H

DUAL SYSTEM VTC &
HMC MULTI-PROCESS MACHINE

Y AXIS



148.5mm(w) X 210mm(h)

THE EASY CHOICE

MOTORIZED TURNING TABLE DRIVE

unmatched Turning and C axis performance on flange processing

COMPLETE HORIZONTAL MILLING FUNCTION

Horizontal Milling System B that enables full HMC function to execute radial jobs on a flange and other complex processes

HIGH TORQUE VERTICAL LIVE SPINDLE

VTM-H system A Vertical Turning and Milling Function. Live spindle is equipped with efficient hole drilling and rigid tapping torque

148.5mm(w) X 210mm(h)





Complete milling and turning solution for flanges, valves, and complex part making. Greatly reduce setup time by implementing capacity for linear axis milling, drilling, and tapping.

For small and low profile parts, the Lymco VTM-500H offers an effective solution. When parts grow bigger, our VTM-800H and VTM-1000H handle bigger swing and turning heights. All in one setup.

DD MOTOR DRIVEN TABLE

THE EASY CHOICE

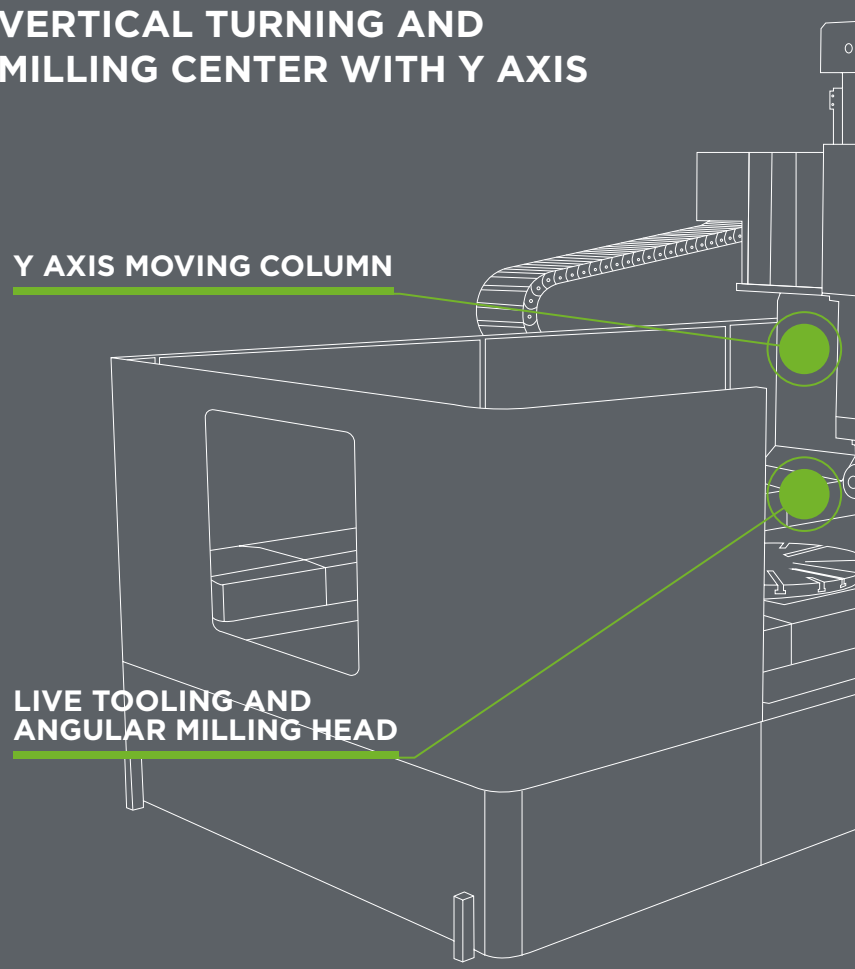
SPECIFICATION

Model	VTM-500H	VTM-800H	VTM-1000H
Vertical Turning Center (VTC) side			
Y axis travel (mm)	500	600	800
Z axis travel (mm)	500	1,000	1,000
Live spindle Taper (kW/rpm)	SK40 15W 6,000rpm	SK50 20W 2,300rpm	
Horizontal Machining Center (HMC) Side			
X axis travel (mm)	500	600	800
Y axis travel (mm)	500	600	600
Z axis travel (mm) = Y axis on VTC side	500	600	800
Table size (mm)	Ø500	Ø800	Ø1,000
Table loading capacity (kg)	500	800	1,000
X axis rapid traverse (mm/min)	30,000	30,000	30,000
Y axis rapid traverse (mm/min)	30,000	30,000	30,000
Z axis rapid traverse (mm/min)	30,000	30,000	30,000
Table Speed (rpm)	700	500	500
Live Spindle Output (kW/rpm)	15kW 6,000rpm	20kW 2,300rpm	20kW 2,300rpm

DV-MTB

VERTICAL TURNING AND
MILLING CENTER WITH Y AXIS

Y AXIS MOVING COLUMN



**LIVE TOOLING AND
ANGULAR MILLING HEAD**

148.5mm(w) X 210mm(h)

THE EASY CHOICE

Y AXIS MOVING COLUMN

Allows one setup for jobs to greatly reduce setup time

LIVE TOOLING AND ANGULAR MILLING HEAD

Enables complete vertical and radial machining capacity on a vertical lathe

BOX TYPE GUIDEWAYS

Rigid Support for Heavy Duty Jobs and complex applications

148.5mm(w) X 210mm(h)



VERTICAL TURNING
AND MILLING

LYMCO



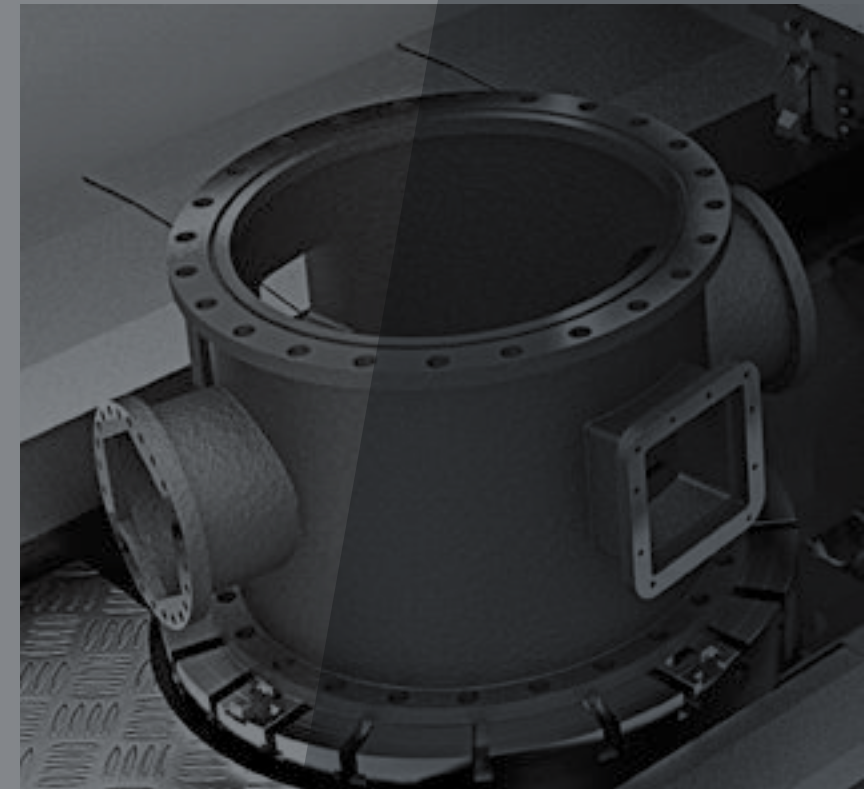
BOX TYPE GUIDEWAYS

Y axis completes the milling function for vertical turning centers, and allows the execution of complex jobs with greatly reduced processing time. The Direct-Change mechanism for milling head enables head change by ATC. The magazine is capable of changing tools at both vertical and horizontal positions.

THE EASY CHOICE

SPECIFICATION

Model	DV-1000-MTB	DV-1600-MTB
Table Diameter (mm)	ø1,000	ø1,600
Max. Swing diameter (mm)	ø1,000	ø1,600
Max. Turning diameter (mm)	ø1,000	ø1,600
Max. Table Load (kg)	3,000	7,500
Table speed(rpm)	3 - 550	3 - 250
Table motor (kW)(cont / 30 min.)	37/45	37/45
Cross Travel X axis (mm)	-450 ~ +450	- 900 to + 900
Vertical Travel of ram Z axis (mm)	850	900
Moving Column Y axis (mm)	800	1,100
Rapids on X axis (mm/min)	7,000	7,000
Rapids on Z axis (mm/min)	7,000	7,000
Rapids on Y axis (mm/min)	4,000	5,000
Live Tooling Spindle		
Spindle speed (rpm)	3,000	2,500



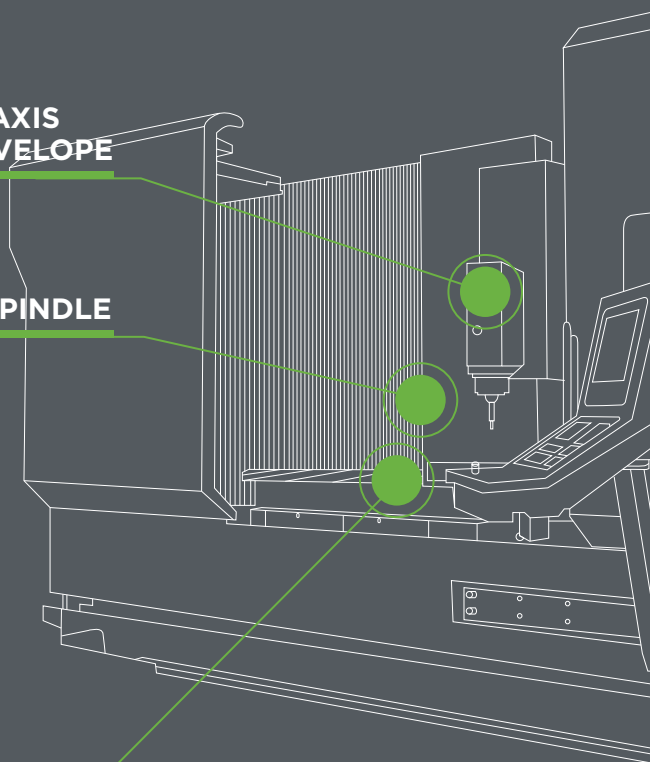
MV-5AX

HEAD-TABLE TYPE
COLUMN MOVING 5-AXIS MACHINING

**COMPLETE 5 AXIS
WORKING ENVELOPE**

HIGH SPEED SPINDLE

WORKING AREA



148.5mm(w) X 210mm(h)

THE EASY CHOICE

148.5mm(w) X 210mm(h)

COMPLETE 5 AXIS WORKING ENVELOPE

3-axis milling cross working table, up to 5-axis simultaneous machining of parts for applications in the aerospace industry

FLEXIBLE WORKING AREA

Large work area from 2,000mm x 600 up to 6,000mm x 800 on 4 axis. 5 axis pendulum machining of smaller workpieces can be done on ø800 mm rotary table

HIGH SPEED SPINDLE

Standard milling spindle 15,000rpm and moving column pivot in Swiveling head $\pm 110^\circ$ (A-axis) with embedded Rotary table 630mm (800mm) (B-axis)

DD MOTOR DRIVEN MV-5T

Add turning capacity to the C-axis table





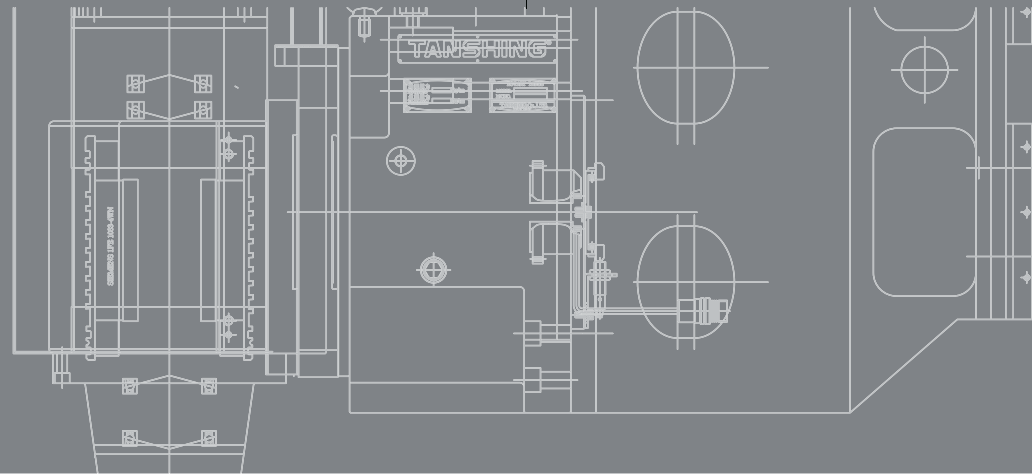
SWIVELING HEAD

Lymco MV-5X family is based on popular European travelling column (Head-Table) concept. All three axis are isolated from the work holding area. The embedded rotary table can be as big as 800mm to house a cutting envelop of $\varnothing 820 \times 500 \text{mm}$ (Opt.). The extra stationary table length makes it possible to machine very heavy and long workpiece with 4 axis capacity or full 5 axis with a rotary table and quill setup.

THE EASY CHOICE

SPECIFICATION

Model	MV-206-5AX	MV-306-5AX	MV-406-5AX	MV-606-5AX	MV-208-5AX	MV-308-5AX	MV-408-5AX	MV-608-5AX
X axis (mm)	2,000	3,000	4,000	6,000	2,000	3,000	4,000	6,000
Y axis (mm)	600	600	600	600	800	800	800	800
Z axis (mm)	550	550	550	550	700	700	700	700
Table size (mm)	2,500 x 600	3,500 x 600	4,500 x 600	6,500 x 600	2,500 x 800	3,500 x 800	4,500 x 800	6,500 x 800
Max. table loading (kg)	1,000	1,500	2,000	2,500	1,500	2,500	3,000	3,500
Max. spindle speed (rpm)	12,000				15,000			
Spindle motor (kw)	18				21.6			
Rapid feedrate (mm/min)	30,000 / 30,000 / 24,000				30,000 / 30,000 / 24,000			
Cutting feedrate (mm/min)	10,000				10,000			
Magazine capacity (pcs)	30				40			
A axis								
Max. speed (rpm)	40				40			
Rotary angle	+110° -110°				+110° -110°			
C axis								
Worktable area (dia.)	Ø550				Ø630			
Load Capacity (kg)	800				800			
Max. Rotation Speed (rpm)	50				50			





EASY TO INSTALL

Put machine into place with a fork lift; start production immediately

SETUP

Eliminate multiple setups on different facing and angular drilling jobs

JOBS

Y axis Moving Column: Allows one setup of jobs to greatly reduce setup time

MCV-M11-5AX

HEAD-TABLE TYPE GENERAL 5-AXIS PART MAKING

MCV-M11-5AX provides a simple solution for small and medium size shops that requires 5-axis capacity. MCV-M11-5AX provides a simple configuration with Swivel head (B axis) and Rotary table (C axis). The machine can be easily setup as 3+1, 3+2, or 4+1 axis based on shop's actual needs. Like all Lymco 5-axis machines, MCV-M11-5AX went through a rigorous testing and inspection cycle to assure the performance when commanded.

SPECIFICATION

Model	MCV-M11-5AX
X axis (mm)	1,100
Y axis (mm)	650
Z axis (mm)	600
Table size (mm)	1,300x600
Max. table loading (kg)	1,000
Max. spindle speed (rpm)	10,000 (12,000)
Spindle motor (kw)	7.5/11
Rapid feedrate (mm/min)	24,000/24,000/20,000
Cutting feedrate (mm/min)	7,000
Magazine capacity (pcs)	16
Machine weight (kgs)	7,000

A axis	
Max. speed (rpm)	17
Rotary angle	+110° -110°
C axis	
Worktable area (dia.)	-
Load Capacity (kg)	-
Max. Rotation Speed (rpm)	-

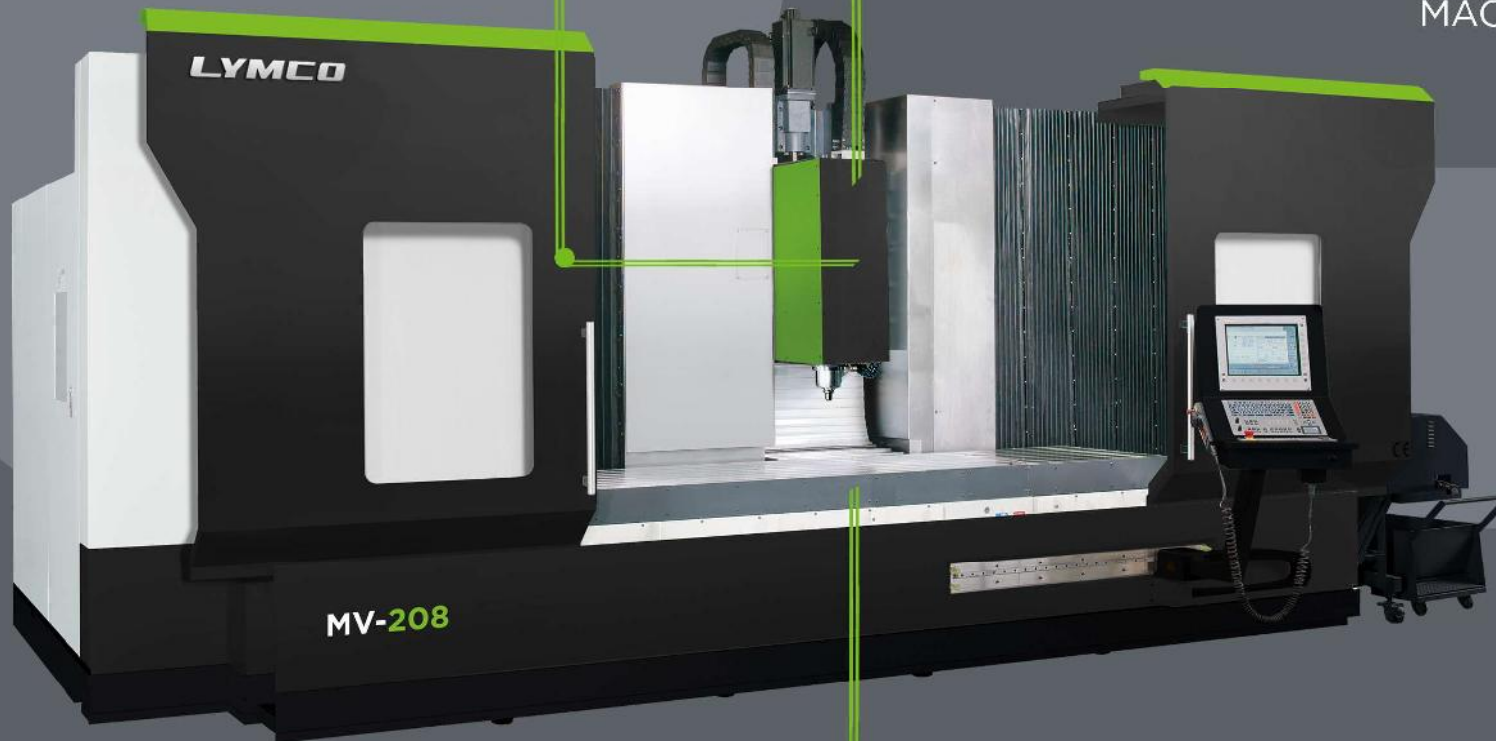
MOVING COLUMN

LYMCO

GEAR HEAD OR
DIRECT DRIVE

3 AXIS BUILT ON
MOVING COLUMN

MV MOVING COLUMN VERTICAL MACHINING CENTER



MV-208

STATIONARY
WORK TABLE

The MV moving column machining center is designed to machine long and narrow parts, or special machining configuration such as dual spindle dual station setup.

Parts as long as 8 meters, with an entry model to begin at 2 meters, could be fitted on the stationary table. The flexibility of model length is the best in its class.

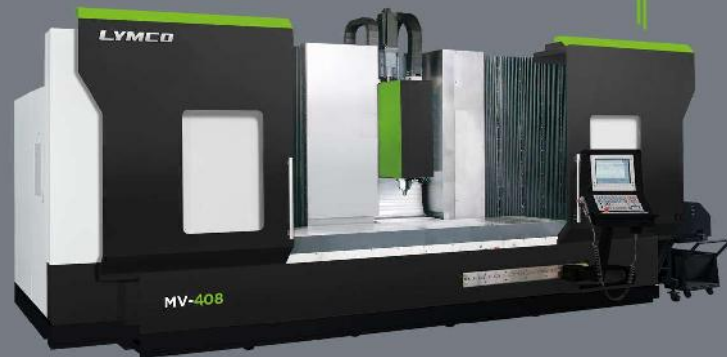
Owner of MV machine could enjoy a boost of productivity when combining the machine with special chucking and fixturing, or automation.

MOVING COLUMN

LYMCO

33% SPACE SAVING
V.S. BRIDGE MILL

*4 meter model

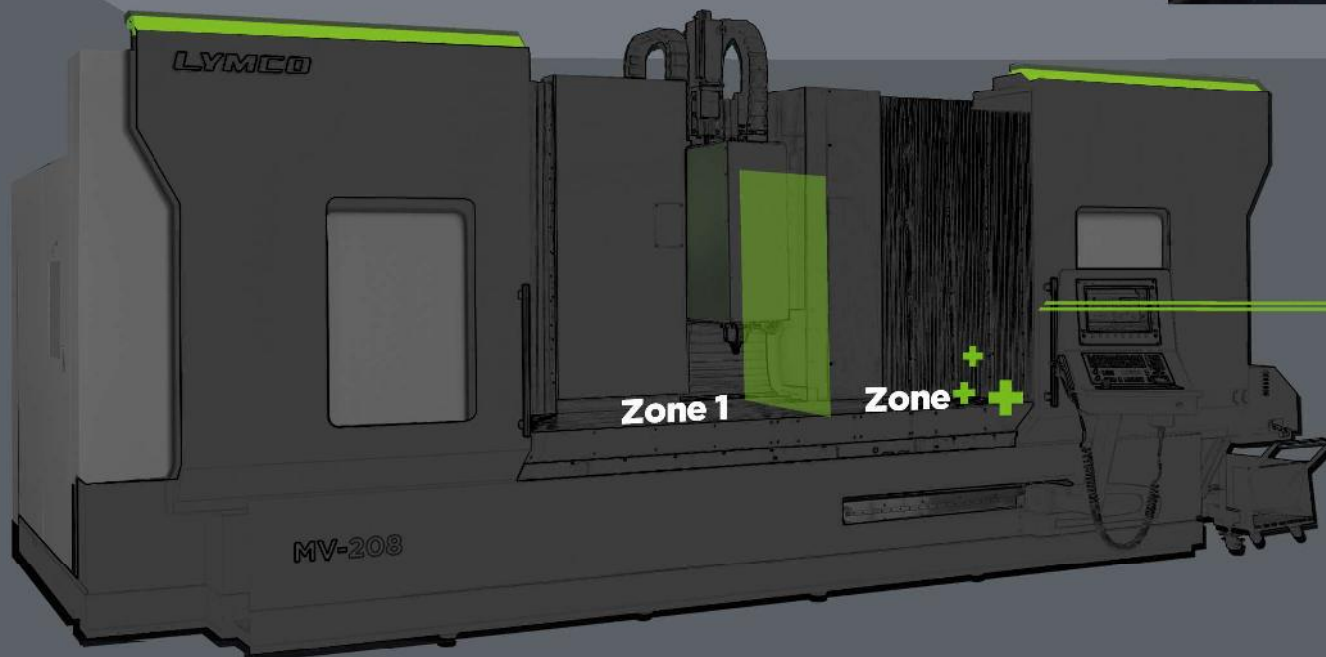


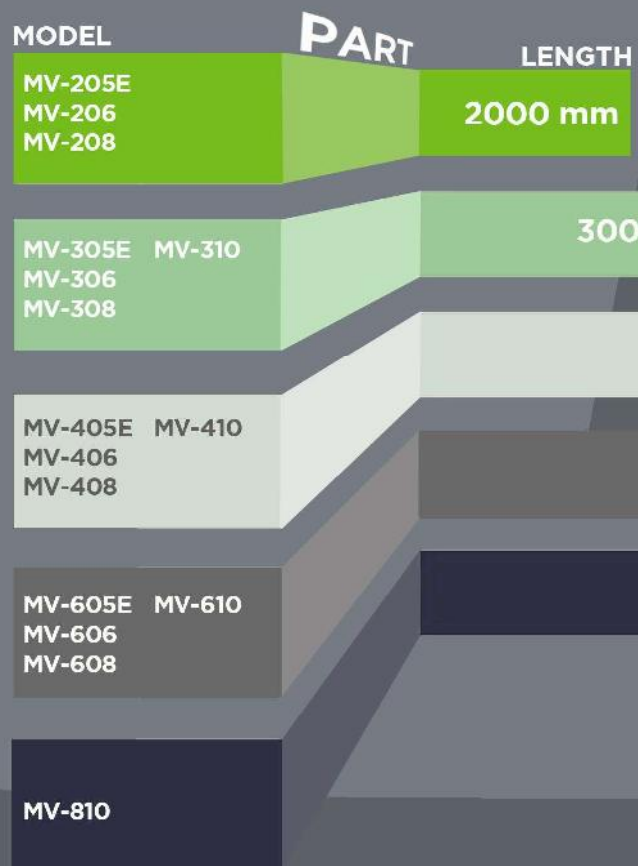
STABILITY FOR
LONG PARTS



FLEXIBILITY

DUAL ZONE PENDULUM MACHINING
MULTI-ZONE /AUTO-FIXTURING
ROTARY TABLES & ADDED LENGTH





MOVING COLUMN

LYMCO

SPECIFICATION

Model	MV-205E/ MV-305E/ MV-405E/ MV-605E/ MV-705E	MV-206/ MV-306/ MV-406/ MV-606	MV-208/ MV-308/ MV-408/ MV-608	MV-310/ MV410/ MV-610/ MV-810
X-axis (mm)	2000/3000/4000/6000/7000	2000/3000/4000/6000	2000/3000/4000/6000	3000/4000/6000/8000
Y-axis (mm)	450	600	800	1000
Z-axis (mm)	550	560	700	800
Table size (mm)	2240/3360/4480/6720/7840 x 500	2500/3650/4800/6500 x 700	2500/3500/4500/6500 x 800	3500/4500/6500/8500 x 1000
Max. loading (kg)	1600/2600/3600/5500/6500	2000/3000/4000/6000	2500/3500/4500/6500	4000/5000/7000/8000
Spindle speed (rpm)	10000 / optional: (12000) / (15000)	10000 / optional: (12000), (15000)/6000 gearhead	10000 / optional: (12000), (15000)/6000 gearhead	10000 / optional: (12000), (15000)/6000 gearhead
Spindle taper	BT-40	BT-40 / optional: BT-50	BT-40 / optional: BT-50	BT-40 / optional: BT-50
Main motor output (kw)	11/15kW	11/15kW	11/15kW optional: 15/18.5kW	11/15kW optional: 15/18.5kW
Rapids X/Y/Z (mm/min)	24000	24000	24000	24000
Cutting feed (mm/min)	12000	15000	12000	12000
Floor layout	5600/6600/7600/9800/11000 x 4000	6200/7200/8200/10200 x 3400	6200/7200/8200/10200 x 3600	7200/8200/10200/12200 x 4300

GEAR SPINDLE

Powerful high torque spindle .
With up to 6000 rpm speed .
Wide range of alternative speed
to choose from

BOX GUIDEWAY

The extraordinary stiffness of the
column and bed box construction,
combined with large contacting
surfaces provides unmatched rigidity.

GEAR SPINDLE**MCV****BOXWAY VERTICAL
MACHINING CENTER**

The MCV machine is one of the best choices for general machining. MCV boxway can be configured with a maximum of 3,000mm on X axis travel with 1,000mm in Y cross stroke. It is designed to handle some of the typical jobs performed in general shops that require a bigger travel. The stability from this popular machine is highly applicable to part-making environment. With various accessories to choose from, this machine is also highly applicable to both production and job shop requirement.

**BOX GUIDEWAY**

THE EASY CHOICE

BOXWAY

SPECIFICATION

Model	MCV-86	MCV-116	MCV-127	MCV-147E	MCV-147	MCV-168	MCV-188	MCV-2010	MCV-2510	MCV-3010
Travel										
X/Y/Z axis (mm)	850/650/600	1,100/650/600	1,200/700/600	1,400/700/600	1,400/700/600	1,600/800/700	1,800/800/700	2,000/1,000/800	2,500/1,000/800	3,000/1,000/800
Spindle nose to table surface (mm)	165-765	165-765	165-765	165-765	170-670	185-885	185-885	185-885	160-960	160-960
Spidle center to column (mm)	700	700	750	750	750	920	920	920	1,080	1,080
Table										
Table size (mm)	1,050x600	1,300x600	1,300x600	1,450x600	1,450x680	1,700x815	1,900x850	2,200x1,000	2,700x1,000	3,100x1,000
Table loading capacity (kg)	800	800	1,000	1,200	1,400	2,000	2,200	3,000	3,200	4,000
Spindle										
Spindle taper	BT-40				BT-50					
Max. spindle speed (rpm)	10,000				6,000 (8,000/direct drive)					
Spindle motor (kW)	11/15				15/18.5	15/18.5	18.5/22	18.5/22	18.5/22	18.5/22
Spindle transmission	Belt (Direct)				Gear head (Direct)					
Feedrate										
Rapid traverse on X,Y,Z axis (mm/min)	20,000/20,000/16,000				16,000/16,000/12,000					
Cutting feedrate (mm/min)	8,000				6,000					
Mini. Input increment (mm)	0.001				0.001					
Tool Magazine										
Tool capacity (pcs)	24 (30)				24 (32)					
Tool selection	BT-40				BT-50					
Max. tool diameter (mm)	77.5				110					
Max. tool length (mm)	300				350					
Max. tool weight (kg)	7				15					
Tool shank	BT-40				BT-50					
Coolant System										
Coolant tank capacity (liter)	250	250	250	280	280	300	300	300	300	300
Accuracy										
Positioning (mm)	0.01/300				0.01/300					
Repeatability (mm)	±0.005				±0.005					
Machine Size										
Floor space requirement (mm)	2,400x2,300	2,400x2,300	2,400x2,300	3,500x2,300	4,600x3,300	7,400x3,600	7,400x3,600	8,100x4,200	9,100x4,200	9,700x4,200
Height (mm)	2,900	2,900	2,900	2,900	3,300	3,600	3,600	3,800	3,800	3,800
Net weight (kg)	7,000	7,500	8,500	10,000	14,000	15,000	15,500	20,000	25,000	25,000
Power consumption (Kva)	25	25	25	30	30	45	45	45	50	50

VARIOUS SPINDLE SYSTEM

Various spindle systems to meet your requirement. Available with belt/direct driven, and built-in motor.

LINEAR GUIDEWAY

Ball type motor system as standard.
Roll type available.
3 axis absolute motor

VARIOUS SPINDLE SYSTEM**LINEAR GUIDEWAY****MCV-M****LINEARWAY VERTICAL
MACHINING CENTER**

The MCV-M machine is designed for high speed precision machining. The advance feature with Z-axis servo motor upgraded and no counter-balance block to provide optimal surface accuracy on machining.

THE EASY CHOICE

LINEARWAY

SPECIFICATION

Model	MCV-M5C	MCV-M5	MCV-M7	MCV-M8	MCV-M10	MCV-M11	MCV-M14
Travel							
X/Y/Z axis (mm)	500/400/400	550/400/500	760/450/500	800/500/500	1,020/500/500	1,100/650/600	1,400/700/600
Spindle nose to table surface (mm)	155 ~ 555	110 ~ 610	110 ~ 610	110 ~ 610	110 ~ 610	100 ~ 700	80 ~ 680
Spidle center to column (mm)	425	500	500	550	550	675	725
Table							
Table size (mm)	600 x 360	700 x 400	900 x 500	900 x 500	1,200 x 500	1,300 x 600	1,600 x 600
Table loading capacity (kg)	250	300	400	600	800	1,000	1,200
Spindle							
Spindle taper	BT-30	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40
Max. spindle speed (rpm)	12,000	10,000 (12,000/15,000)	10,000 (12,000/15,000)	10,000 (12,000/15,000)	10,000	10,000 (12,000/15,000)	10,000 (12,000/15,000)
Spindle motor (kW)	3.7/5.5	5.5/7.5	5.5/7.5	5.5/7.5	7.5/11	11/15	11/15
Spindle transmission	Belt (direct/built-in motor)						
Feedrate							
Rapid traverse on X,Y,Z axis (mm/min)	20,000/20,000/20,000	36,000/36,000/30,000	36,000/36,000/30,000	36,000/36,000/30,000	36,000/36,000/30,000	36,000/36,000/30,000	30,000/30,000/30,000
Cutting feedrate (mm/min)	1 - 8,000	1-12,000	1-12,000	1-12,000	1-8,000	1-12,000	1-12,000
Mini. Input increment (mm)	0.001						
Tool Magazine							
Tool capacity (pcs)	20	24 (30)	24 (30)	24 (30)	24 (30)	24 (30)	24 (30)
Tool selection	Bi-direction						
Max. tool diameter (mm)	63	77.5	77.5	77.5	77.5	77.5	77.5
Max. tool length (mm)	200	300	300	300	300	300	300
Max. tool weight (kg)	3	7	7	7	7	7	7
Tool shank	BT30	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40
Machine weight (kg)	2,500	3,200	3,400	4,350	4,600	7,000	12,000
Coolant System							
Coolant tank capacity (liter)	80	200	200	200	200	250	300
Accuracy							
Positioning (mm)	0.01/300	0.01/300	0.01/300	0.01/300	0.01/300	0.01/300	0.01/300
Repeatability (mm)	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
Machine Size							
Floor space requirement (mm)	1,700 x 2,340	2,040 x 1,960	2,280 x 2,260	2,380 x 2,280	2,700 x 2,280	3,000 x 2,900	5,000 x 2,800
Height (mm)	2,500	2,350	2,350	2,850	2,850	3,000	3,100
Net weight (kg)	2,500	3,200	3,400	4,350	4,600	7,000	12,000
Power consumption (Kva)	15	15	15	15	15	25	35

THE EASY CHOICE

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