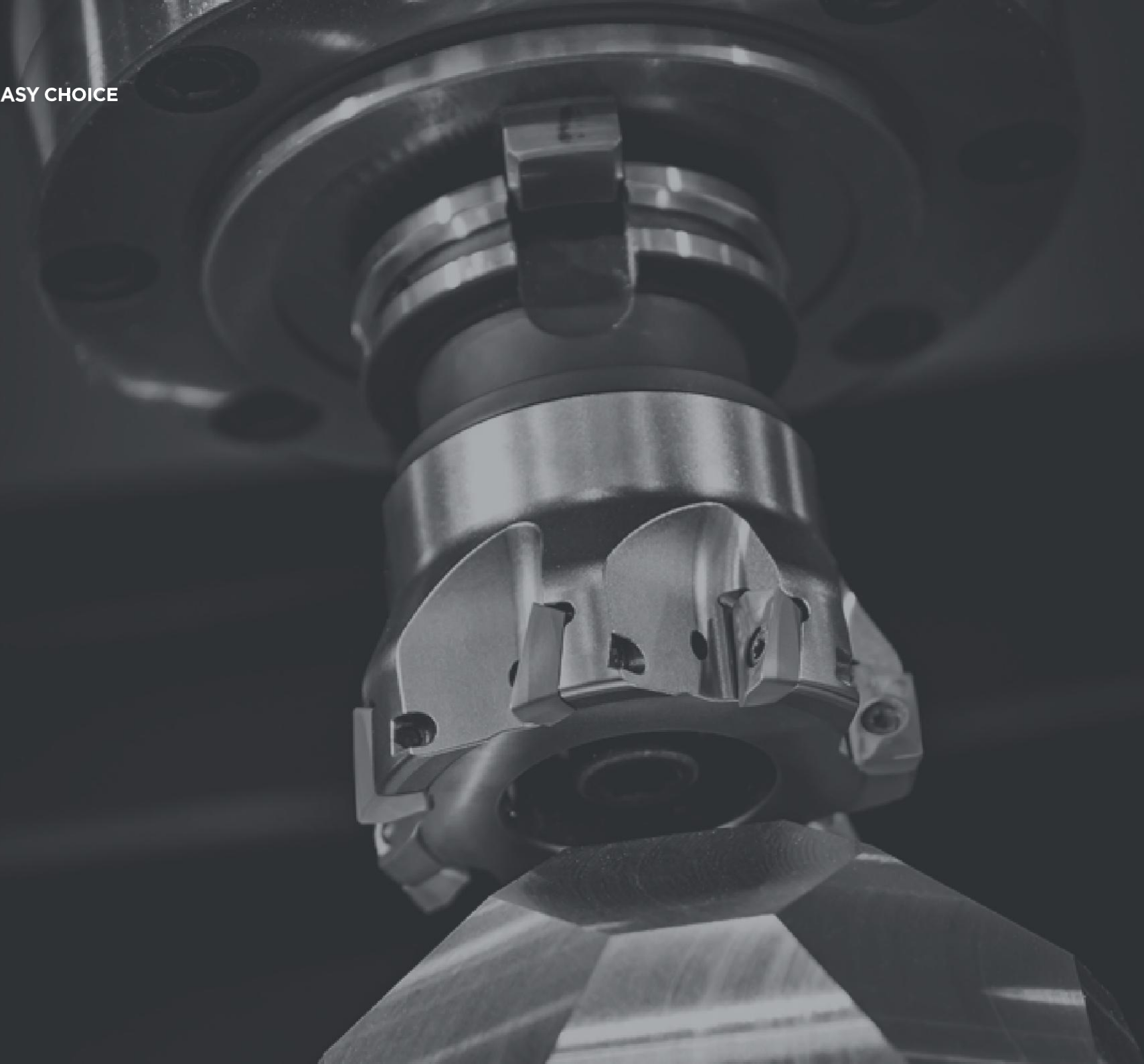




LYMCO

THE EASY CHOICE



AT THE HEART OF THE MACHINE TOOL INDUSTRY

At Lymco we are dedicated to being the number one manufacturing and supply partner to users of CNC machine tools around the world.

Quality is our top priority every step of the production of our CNC machines, sourcing of machine tool solutions for every application, and in the service we provide to our partners.

THE EASY CHOICE



DRIVEN AND COMMITTED

We strive to not just meet but to exceed our customers' expectations, to satisfy dealers' needs with immediate service and full support, and to deliver value and enhance our customers' profits through systems efficiencies.

From this commitment to superior service and product quality, we will continue building partnerships with machine tool users for generations to come.

SUPERIOR SERVICE

Our company is committed to providing superior customer service and added value to dealers around the world who are on the market for high quality and specialized machines tailored to special customers' needs. Simply put, Lymco dealers get more than just equipment, they get:



Quality machines that perform 100% to specifications - our engineers carry out two detailed quality assurance inspections and test-run every single machine prior to shipment.



Follow-up throughout the manufacturing processes at every critical stage of each order to ensure timely delivery of machines.



Efficiency through a computerized sales management system.



Customer support before and after the sale that includes feasibility studies, training and service programs.



Consolidation of the best shipping practices to save on freight expenses.



Responses to every inquiry within 24 to 48 hours.



Professional staff engineers who can help analyze customer demands before purchase, and troubleshoot problems on any machine after delivery.



Competitive pricing, thanks to our long-standing relationships with our machine builders.

When you partner with Lymco, you invest in our company's history, expertise and service. It is an investment that will pay off for years to come, not only for you but for your customers as well.

As a Lymco partner, you will provide customers with benefits that make a positive difference to their financial health: reliable long-lasting equipment, higher productivity, faster output, and more satisfied customers of their own.

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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 perform.

We get it.



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

Lymco is the CNC machine tool expert that will make your day a whole lot easier. 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.

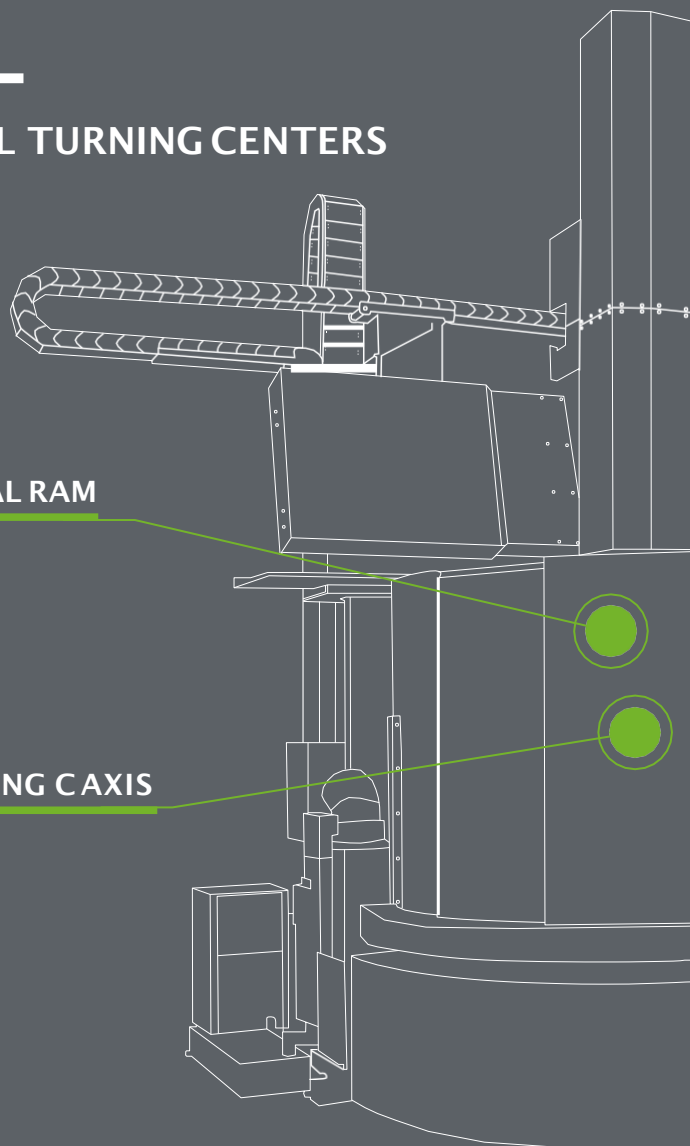
The easy choice.

RAL

VERTICAL TURNING CENTERS

OCTAGONAL RAM

LIVE TOOLING CAXIS



THE EASY CHOICE

DUAL BEARING TABLE DESIGN

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 bores

Crossrail

15° slant bed design for the RAL-16P and the RAL-20P. Hardened to 56Rc and precision ground, hand scrapped box guideways

Live Tooling C-Axis

Available to mill, drill and tap in a single setup greatly reducing second operations. Optional angular milling heads to increase radial tooling capabilities





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 an 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.



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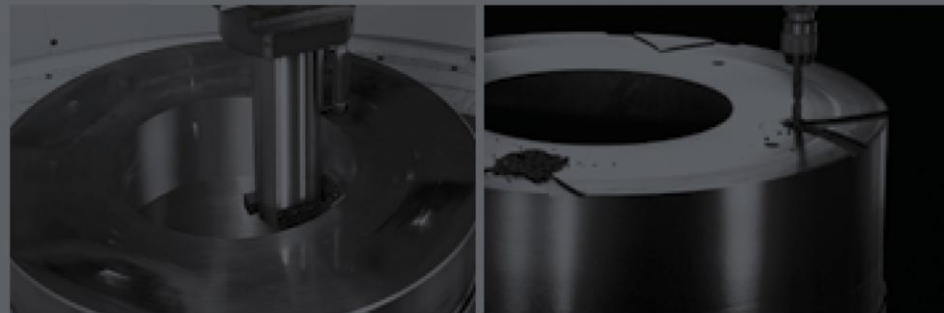
15° SLANT BED CROSSRAIL

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-MP turning centers. Angular milling head is also an option to handle radial direction work.



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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

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CUSTOMIZED MACHINE TOOL SOLUTIONS

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