



LEVIL TECHNOLOGY CNC MACHINES

Capable. Compact. Complete.



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Industries

**OUR VERSATILE MACHINES CAN BE USED
ACROSS A DIVERSE RANGE OF INDUSTRIES**



Jewelry



Electronics



Automotive



Medical



Engineering



Dental



Construction



Aerospace



Engraving



Rocketry



Education



Robotics



Design



Defense



Oil & Gas



Marine



Instruments



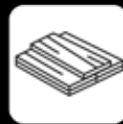
Sculpture



Maintenance &
Repair



CNC Machining



Woodworking



Industrial



R&D



Prototype



@Leviltechnology



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EDU MiNi MiLL

Vertical Mini Mill

Compact yet powerful, the EDU MiNi MiLL is ideal for classrooms and workshops where space is limited but precision can't be compromised.

- Travel: X - 178 mm (7"), Y - 200 mm (7.75"), Z - 127 mm (5")
- Cutting Feed (X, Y, Z): 150 ipm (3,800 mm/min)
- Rapid Feed (X, Y, Z): 400 ipm (10,000 mm/min)
- Precision: 0.02 mm (0.0008")
- Worktable Size: 18.5 x 25 cm (7.28" x 14.76")
- Spindle Speed: 12,000 rpm (20,000 optional)
- Power: 220 VAC, 15 A, 1 ph
- Weight: 200 lbs (90.72 kg)



EDU MiNi Lathe

Mini Turning Center

A small turning center designed to introduce students and beginners to the fundamentals of CNC machining with ease and accuracy.

- Travel: X - 100 mm (4"), Z - 100 mm (4")
- Cutting Feed (X, Z): 118 ipm (3.0 m/min)
- Rapid Feed (X, Z): 400 ipm (10 m/min)
- Precision: 0.02 mm (0.0008")
- Tool Turret: 8 tools, 3/4" (19 mm)
- Spindle Speed: 3,000 rpm
- Spindle Power: 750 W (1 hp)
- Chuck: 2" 3-Jaw Chuck
- Power: 220 VAC, 15 A, 1 ph
- Weight: Approx. 300 lbs (136 kg)

EDU-MiLL

Vertical Mill

The EDUMiLL is a compact, industrial-grade CNC milling machine designed for education and workforce training, bringing real-world manufacturing technology into the classroom.

- Travel: X - 178 mm (7"), Y - 267 mm (10.5"), Z - 118 mm (4.64")
- Cutting Feed (X, Y, Z): 150 ipm (3.8 m/min)
- Rapid Feed (X, Y, Z): 400 ipm (10 m/min)
- Precision: 0.02 mm (0.0008")
- Worktable Size: 37 x 25 cm (14.56" x 9.84")
- Spindle Speed: 24,000 rpm
- Power: 220 VAC, 15 A, 1 ph
- Weight: 300 lbs (136 kg)



**Proudly made
in the USA**

LMV-400

Vertical Mill

Designed for precision and durability, the LMV-400 is a reliable solution for labs, small shops, and training centers.

- Travel: X - 421 mm (16.5"), Y - 217 mm (8.5"), Z - 190 mm (7.5")
- Cutting Feed (X, Y, Z): 250 ipm (6.35 m/min)
- Rapid Feed (X, Y, Z): 400 ipm (10 m/min)
- Precision: 0.01 mm (.0004")
- Worktable Size: 42.7 x 25 cm (16.8" x 9.84")
- Spindle Speed: 14,000 rpm
- Power: 220 VAC, 15 A, 1 ph
- Weight: 475 lbs (215 kg)



LTC-30

Turning Center

Compact yet powerful, this turning center is built for efficiency and consistent results in small-batch machining.

- Travel: X - 421 mm (16.5"), Y - 217 mm (8.5"), Z - 190 mm (7.5")
- Cutting Feed (X, Y, Z): 118 ipm (3.0 m/min)
- Rapid Feed (X, Y, Z): 600 ipm (15 m/min)
- Precision: 0.01 mm (0.0004")
- Spindle Speed: 3,000 rpm
- Power: 220 VAC, 15 A, 1 ph
- Weight: 650 lbs (300 kg)



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in the USA**



LMV-300

Vertical Mill

Robust construction and precise control make the LMV-300 a go-to choice for training and light industrial applications.

- Travel: X - 390 mm (15.3"), Y - 240 mm (9.4"), Z - 193 mm (7.5")
- Cutting Feed (X, Y, Z): 250 ipm (6.35 m/min)
- Rapid Feed (X, Y, Z): 600 ipm (15 m/min)
- Precision: 0.01 mm (0.0004")
- Worktable Size: 42.5 x 25 cm (16.73" x 14.76")
- Spindle Speed: 14,000 rpm
- Power: 220 VAC, 15 A, 1 ph
- Weight: 1,000 lbs (453 kg)

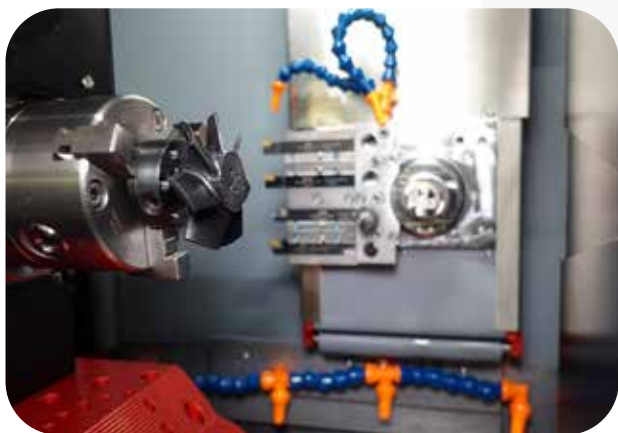


LMT-300

5-Axis Mill-Turn

The perfect solution for instructors who require a robust cutting machine inside of a compact footprint.

- Travel: X - 370 mm (14.5"), Y - 240 mm (9.4"), Z - 205 mm (8")
- Cutting Feed (X, Y, Z): 250 ipm (6.35 m/min)
- Rapid Feed (X, Y, Z): 600 ipm (15 m/min)
- Precision: 0.01 mm (0.0004")
- Spindle Speed: 14,000 rpm
- Power: 220 VAC, 15 A, 1 ph
- Weight: 1,000 lbs (453 kg)



**We
have
it
all!**

LMH-300 4X

Horizontal Mill

High-speed, horizontal machining in a compact footprint – designed for precision and performance in advanced training or production.

- Travel: X - 390 mm (15.3"), Y - 170 mm (6.5"), Z - 240 mm (9.4"), C - +/- 360 degrees
- Cutting Feed (X, Y, Z): 250 ipm (6.35 m/min)
- Rapid Feed (X, Y, Z): 600 ipm (15 m/min)
- Precision: 0.01 mm (0.0004")
- Spindle Speed: 14,000 rpm
- Power: 220 VAC, 20 A, 1 ph
- Weight: 1,000 lbs (453 kg)

LMH-300 5X

Horizontal Mill

Go further with full 5-axis machining – flexibility, speed, and accuracy for the most demanding applications.

- Travel: X - 390 mm (15.3"), Y - 170 mm (6.5"), Z - 240 mm (9.4"), B - -95, +110, C - +/- 360 degrees
- Spindle Speed: 20,000 rpm
- Power: 220 VAC, 25 A, 3 ph
- Conversational Programming. MGii (Upgrade)



**FIRST U.S.-BASED MACHINE TOOL BUILDER
to join FANUC's 5-Axis Integrated Technology Initiative
Advanced 5-Axis.**



SCAN ME



Machine Comparison Chart

	EDUMini Mill	EDUMini Lathe	EDU-MILL	LMV-400	LTC-30	LMV-300	LMT-300	LMH-300-5X
Controls & Programming								
Industrial Controller	Fanuc or Levil	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC
Conversational Programming	N/A	N/A	N/A	N/A	MGI (Standard)	MGI (Standard)	MGI (Standard)	MGI (Upgrade)
Travel								
Travel X Axis	178 mm (7")	100 mm (4") radial	178 mm (7")	421 mm (16.5")	170 mm (6.5")	390 mm (15.3")	370 mm (14.5")	390 mm (15.3")
Travel Y Axis	200 mm (7.75")	N/A	267 mm (10.5")	217 mm (8.5")	N/A	240 mm (9.4")	240 mm (9.4")	170 mm (6.5")
Travel Z Axis	127 mm (5")	100mm (4")	118 mm (4.64")	190 mm (7.5")	225 mm (8.85")	193 mm (7.5")	205mm (8")	240 mm (9.4")
Travel A Axis	N/A	N/A	N/A	+/- 360 degrees	N/A	N/A	N/A	N/A
Travel B Axis	N/A	N/A	N/A	N/A	N/A	N/A	-95, +110	-95, +110
Travel C Axis	N/A	N/A	N/A	N/A	N/A	N/A	+/- 360 degrees	+/- 360 degrees
Tallstock Available	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Mechanical Motion								
Axes Motors	Servo Motors	Servo Motors	Servo Motors	Servo Motors	Servo Motors	Servo Motors	Servo Motors	Servo motors
Linear Guideways	Size 15	Size 15	Size 15	Size 15	Size 15	Size 15	Size 15	Size 15
Ball Screws	C7 Grade Rolled	C7 Grade Rolled	C7 Grade Rolled	C7 Grade Rolled	C7 Grade Rolled	C5 Grade Precision Ground	C5 Grade Precision Ground	C5 Grade Precision Ground
Precision	0.01 mm (0.0004")	0.01 mm (0.0004")	0.02 mm (0.0004")	0.01mm (.0004")	0.01 mm (0.0004")	0.01 mm (0.0004")	0.01 mm (0.0004")	0.01 mm (0.0004")
Feed								
Rapid Feed Rate	400 ipm (10m/min)	400 ipm (10 m/min)	400 ipm (10m/min)	400 ipm (10m/min)	600 ipm (15 m/min)	600 ipm (15 m/min)	600 ipm (15 m/min)	600 ipm (15 m/min)
Cutting Feed Rate	150 ipm (3.8 m/min)	118 ipm (3.0 m/min)	150 ipm (3.8 m/min)	250 ipm (6.35 m/min)	118 ipm (3.0 m/min)	250 ipm (6.35 m/min)	250 ipm (6.35 m/min)	250 ipm (6.35 m/min)
Spindle								
Standard Model	500W	750W	GDC-80	LS-C30	LS-60	LS-C30	LS-C30H	LS-F30H
Max Spindle Speed	12,000 rpm	3,000 rpm	24,000 rpm	14,000 rpm	3,000 rpm	14,000 rpm	14,000 rpm	20,000 rpm
Spindle Motor Power	0.5 hp	1hp	2hp	2 hp	2 hp	2 hp	2 hp	2 hp
Spindle Taper	ER-11	~ /	01&2"	S20T	N/A	S20T	S20T	S20T
Rigid Tapping Capable	No	Yes	Optional	Yes	Yes	yes	yes	yes
Automatic Tool Changer	No	Yes	Optional	Yes	Yes	Yes	Yes	Yes
Max Torque	0.5 Nm		0.6 Nm	2.5 Nm	10.25 Nm	2.5 Nm	2.5 Nm	2.29 Nm
Drive System	Inline Direct Drive	Belt drive	Inline Direct Drive	Inline Direct Drive	Inline Direct Drive	Inline Direct Drive	Inline Direct Drive	Inline Direct Drive
Cooling	Air Cooled	Air	Air Cooled	Liquid Cooled - Air Cooled	Air Cooled	Liquid Cooled - Air Cooled	Liquid Cooled - Air Cooled	Liquid Cooled - Air Cooled
3D Printing Capabilities								
Type	N/A	N/A	FDM	N/A	N/A	N/A	N/A	N/A
Head Extrusion	N/A	N/A	Single Head - Levil Control only Dual Head - FANUC & Levil	N/A	N/A	N/A	N/A	N/A
Soft Materials	N/A	N/A	PLA - PETG - PTU - ABS	N/A	N/A	N/A	N/A	N/A
Metal 3D printing	N/A	N/A	Steels, Aluminum, Copper, Brass, titanium, and more	N/A	N/A	N/A	N/A	N/A
Build plate size	N/A	N/A	6.3" x 10.2" x 4.3" 16 x 26 x 11 cm	N/A	N/A	N/A	N/A	N/A
Mnimum Layer Resolution	N/A	N/A	100 microns	N/A	N/A	N/A	N/A	N/A
Machine Measurements								
Width	32.5" (82.5 cm)	27.5" (70 cm)	27.5" (70 cm)	33" (84 cm)	44" (112 cm)	58" (147 cm)	58" (147 cm)	58" (147 cm)
Height	26.5" (67 cm)	41.5 (105 cm)	41.5 (105 cm)	43.69" (111 cm)	42.38" (108 cm)	75" (183 cm)	75" (183 cm)	75" (183 cm)
Depth	23.5" (60 cm)	33.5" (85 cm)	33.5" (85 cm)	37" (94 cm)	30" (76 cm)	57.7" (146.5 cm)	57.7" (146.5 cm)	57.7" (146.5 cm)
Heightwith Stand	N/A	75" (190 cm)	75" (190 cm)	68" (172 cm)	66.5" (169 cm)	75" (183 cm)	75" (183 cm)	75" (183 cm)
Fits Through Standard Door (35")	Yes	Yes	Yes	Yes	No	No	No	No
Machine Weight	Aprox 200 lbs. (99.7 kg)	Aprox 300 lbs (136 kg)	Aprox 300 lbs (136 kg)	Aprox 475 lbs (215 kg)	650 lbs (300 kg)	Aprox 1000 lbs. (453 kg)	Aprox 1000 lbs. (453 kg)	Aprox 1000 lbs. (453 kg)
Work Table								
Length	7.28" (18.5 cm)	N/A	14.56" (37 cm)	16.8" (42.7 cm)	N/A	16.73" (42.5 cm)	N/A	N/A
Width	14.76" (25 cm)	N/A	9.84" (25 cm)	9.84" (25 cm)	N/A	14.76" (25 cm)	N/A	N/A
T-slot Width	0.3346 (0.85cm)	N/A	0.3346 (0.85cm)	0.3346 (0.85cm)	N/A	0.3346 (0.85cm)	N/A	N/A
T-Slot Center Distance	0.9842 (2.5 cm)	N/A	0.9842 (2.5 cm)	0.9842 (2.5 cm)	N/A	0.9842 (2.5 cm)	N/A	N/A
Number of std T-Slots	8	N/A	15	10	N/A	15	N/A	N/A
Coolant/Air								
Flood Coolant	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Gallons	N/A	N/A	N/A	10 gallons	10 gallons	15 gallons	15 gallons	15 gallons
Power	N/A	N/A	N/A	1/8 hp pump	1/8 hp pump	1/4 hp pump	1/4 hp pump	1/4 hp pump
rpm	N/A	N/A	N/A	1500 rpm	1500 rpm	2800 rpm	2800 rpm	2800 rpm
Adjustable flow/Valve	N/A	N/A	N/A	No	No	Yes	Yes	Yes
M-code Controlled	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Optional Air Blast Available	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Optional Mist Coolant Available	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Automatic Tool Changer	Manual Tool change	Standard	Optional	Standard	Standard	Standard	Standard	Standard
Type	N/A	Tool Turret	Position table	Position Table	Tool Turret	Position Table	Carousel	Carousel
Capacity	N/A	8 tools	5	11 tools	8 tools	11 tools	27 tools	27 tools
Max Tool Diameter	1/4" (6.35 mm)	3/4" (19mm)	1.1" (28 mm)	1.1" (28 mm)	3/4" (19.05 mm)	1.1" (28 mm)	1.1" (28 mm)	1.1" (28 mm)
Air Requirements								
Air required	N/A	N/A	Optional	Yes	Yes	Yes	Yes	Yes
Coupler (Air)	N/A	N/A	Size 1/4" quick disconnect	Size 1/4" quick disconnect	Size 1/4" quick disconnect	Size 1/4" quick disconnect	Size 1/4" quick disconnect	Size 1/4" quick disconnect
Air Pressure Min	N/A	N/A	90 psi	90 psi	90 psi	90 psi	90 psi	90 psi
WorkHolding options								
Vise	Compact vise	N/A	3" vise	3" vise	N/A	3" vise	Compact vise	Compact vise
Chuck	N/A	3 Jaw Chuck 2"	Optional 3 Jaw Chuck 4"	Optional 3 Jaw Chuck 4"	3 Jaw Chuck 4"	Optional 3 Jaw Chuck 4"	3 Jaw Chuck 4"	3 Jaw Chuck 4"
Pneumatic vise	N/A	N/A	Compact vise	Compact vise	N/A	Compact vise	Compact vise	Compact vise
SC Collet	N/A	N/A	N/A	N/A	Available	N/A	N/A	N/A
Dimensions - Shipping								
Standard Shipping Crate - Dimensions	41x31x37" (1.042 x 0.79 x 0.940)	41x31x37" (1.042 x 0.79 x 0.940)	N/A	48x48x53" (1.21 x 1.21 x 1.34 m)	48x48x49" (1.21 x 1.21 x 1.24 m)	N/A	N/A	N/A
Deluxe Shipping Crate - Dimensions	N/A	N/A	32x48x82" (0.81 x 1.21 x 1.98 m)	40x40x82 (1 x 1 x 2 m)	37x48x82 (0.93 x 1.21 x 2 m)	64x48x82" (1.6 x 1.21 x 2 m)	64x48x82" (1.6 x 1.21 x 2 m)	48x80x86" (1.21 x 2 x 2.1 m)
Standard Shipping Crate - Weight	300 Lbs.	300 Lbs.	N/A	588 Lbs.	783 Lbs.	N/A	N/A	N/A
Deluxe Shipping Crate - Weight	N/A	N/A	632 Lbs.	672 Lbs.	1192 Lbs.	1900 Lbs.	1900 Lbs.	1930 lbs.
Electrical Specifications								
Power	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC (Stepper up/down transformer for 110 VAC)	220 VAC
Amps	15 A	15 A	15 A	15 A	20 A	20 A	25 A	25 A
Phase	1 ph	1 ph	1 ph	1 ph	1 ph	1 ph	1 ph	3 ph
Automation								
CRX5 Capable	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LR-Mate 200ID ES	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes

EDUCATION

The Power of Partnership

Strong partnerships connect education, technology, and real-world manufacturing. By working alongside industry leaders, Levil Technology helps ensure that the equipment and skills taught in the classroom reflect the technologies manufacturers are using today. Together, we create more accessible pathways for hands-on training, workforce development, and advanced manufacturing.

FANUC

FANUC America Bringing industry-leading CNC technology and advanced manufacturing practices into the classroom.



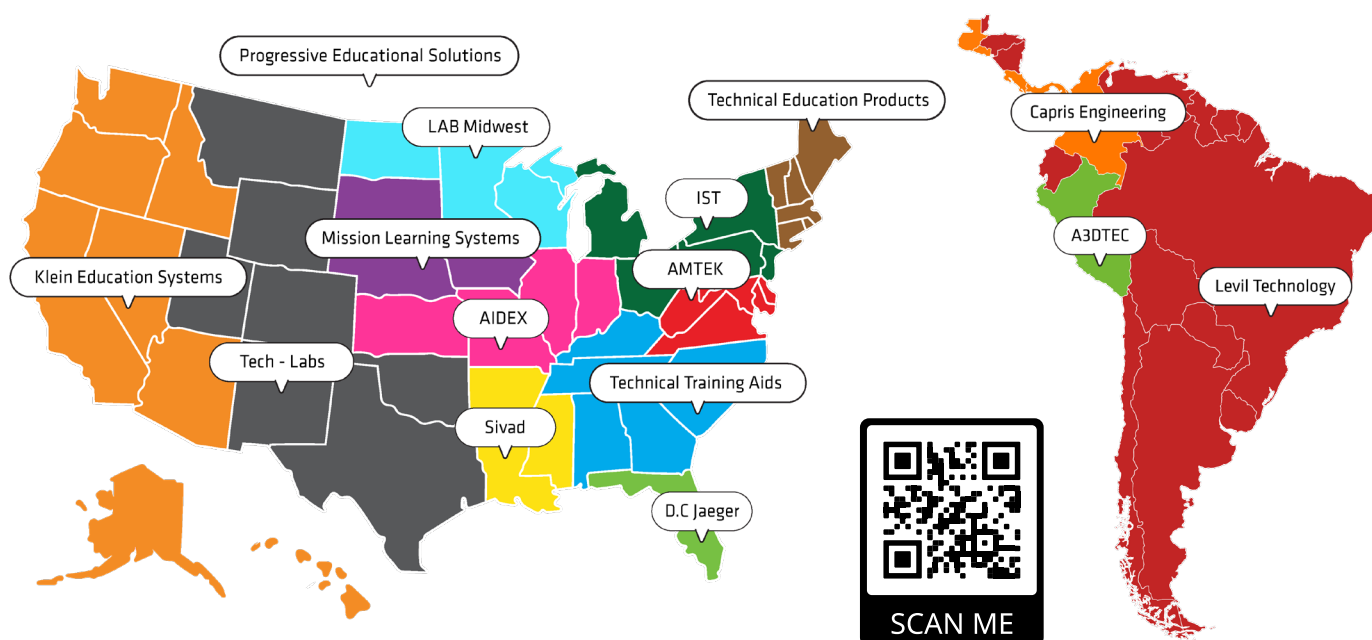
APT Manufacturing Solutions Connecting CNC machining with robotics, automation, and real-world manufacturing systems.



Industry Training Academy (ITA) Delivering hands-on training that builds the skills today's manufacturing workforce needs.

Together, we're bridging the gap between the classroom and the manufacturing floor.

Find Your Local Education Solution Provider



Scan the QR code to connect with the Levil partner serving your area.

Classroom Design Services

CNC Technical Learning Classrooms



In partnership with FANUC America and APT Manufacturing Solutions, Levil Technology helps schools and training institutions develop modern manufacturing classrooms that connect education with the needs of today's industry.

From the initial concept to a complete learning environment, we work together to help plan classroom layouts, equipment selection, CNC machining, robotics, automation, and integrated manufacturing systems. Our goal is to create flexible, hands-on spaces where students can experience how different manufacturing technologies work together, not just as individual machines, but as part of a complete production environment.

By combining Levil's compact CNC solutions, FANUC's industry-leading CNC and automation technology, and APT's expertise in manufacturing integration, schools can build programs that reflect real-world manufacturing while maximizing available classroom space.

The result is more than a classroom; it's a modern manufacturing learning environment designed to develop relevant skills, support workforce development, and prepare students for the manufacturing floor.

From classroom concept to industry-ready skills.

BUILDING THE CNC WORKFORCE OF THE FUTURE

To address the gap in the manufacturing workforce, Levil Technology in partnership with FANUC America propose a comprehensive, scalable workforce development solution.



- Flexible learning through FANUC's eLearn curriculum, blending self-paced online modules with instructor guidance and support. Learners progress at their own pace while benefiting from structured oversight. To ensure smooth implementation, FANUC offers an optional dedicated instructor training, where a representative comes onsite to work directly with instructors – building confidence and ensuring fidelity to the curriculum.
- Virtual CNC practice using FANUC CNC simulators, enabling students to safely develop and test programming and operational skills in a virtual environment before moving to physical equipment. This simulation-first method improves skill retention and builds confidence before hands-on application.
- Hands-on experience with Levil Technology's compact CNC mills and lathes, offering full industrial capability in a small, affordable, and portable format. These machines allow learners to safely perform real metal-cutting operations without the infrastructure requirements of traditional shop environments.
- Credentialed outcomes via the NOCTI CNC Certification, a nationally recognized, performance-based assessment that validates proficiency in setup, programming, operation, and safety – providing measurable indicators of workforce readiness.

This solution can be deployed quickly and scaled as needed. It offers the standardization, flexibility, and industry alignment necessary to build a highly-skilled CNC workforce – ready to meet the demands of modern manufacturing now and in the future.

Custom Turnkey Solutions for Industry

Built Around Your Application

At Levil Technology, we understand that every manufacturing application is unique. Our turnkey solutions are tailored to your specific parts, processes, production needs, and business goals—from customized CNC machines to fully integrated automated manufacturing systems.

Serving aerospace, automotive, medical, dental, precision manufacturing, R&D, and other industries, we customize Levil machines with multi-axis technology, robotics, automation, tooling, workholding, software, and process integration.

Our compact and flexible platforms are ideal for applications where precision, productivity, automation, and space efficiency are critical. From concept and engineering to integration and implementation, Levil delivers complete, production-ready manufacturing solutions designed around your needs.

Your part. Your process. Your solution.

Metal 3D Printing

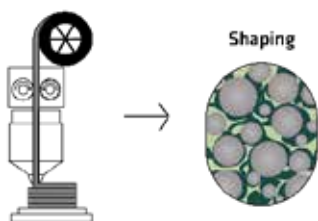
Fused Deposition Modeling (FDM) metal 3D printing is a cutting-edge technology that involves melting and depositing metal filaments layer by layer to create intricate and durable metal parts. This technique is gaining popularity in various industries, including education, for its ability to produce high-quality metal parts quickly and cost-effectively.

In education, FDM metal 3D printing can benefit students by providing them with hands-on experience in designing and creating metal components, helping them develop valuable skills for future careers in fields such as engineering and manufacturing. Additionally, it can open up new possibilities for research projects and experimentation, allowing students to explore the limits of what is possible with metal 3D printing technology.

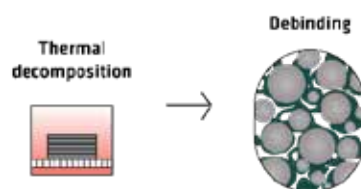
3D Print In Any Material You Can Think Of

Turn your ideas into reality, whether it's for production, prototyping, or just for fun. With the EDUMiLL, you can now 3D print using metals ranging from aluminum to stainless steel and even Inconel. Metal 3D printing is the future, and it's here to stay; now it's more accessible and affordable than ever before. 3D Print metals in 3 simple steps! (Print, Debind, Sinter)

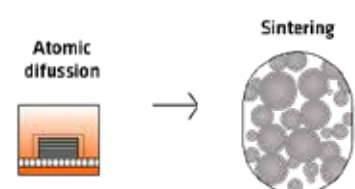
Print



Debind



Sinter





EDU RoboMiLL

Robotic Mill

Where education meets industry: the EDU RoboMiLL combines CNC milling with robotics to prepare students for the future of smart manufacturing.

- Travel: Robot Dependent
- LR-Mate 200iD/4S
- LR-Mate 200iD
- LR-Mate 200iD/7L
- LR-Mate 200iD/14L
- Cutting Feed (X, Y, Z): 59 ipm (1.5 m/min)
- Rapid Feed (X, Y, Z): 79 ipm (2 m/min)
- Precision: 0.03 mm (0.0012")
- Power: 220 VAS, 15 A, 1 ph
- Spindle:
 - Option 1: (For all robots)
Standard Model: NSK 3060-AQC ATC
Spindle Speed: 30,000 rpm
 - Option 2: (For robots with 10KG payload or larger) Standard Model: LS-C30
Spindle Speed: 14,000 rpm

**Proudly made
in the USA**



RoboMiLL

Robotic Mill

High-precision robotic machining with advanced automation, delivering extended reach, rigidity, and precision for complex applications while reducing manual intervention and expanding production capabilities.

- 6-Axis Industrial Robot
- Maximum Payload: 60 kg (132 lb)
- Maximum Reach: 2,040 mm (80.3 in)
- Repeatability: ± 0.015 mm (± 0.00059 in)
- Robot Weight: 820 kg (1,808 lb)
- Footprint: 500 x 680 mm
- Maximum J6 Speed: 400°/sec
- Protection: IP54 body / IP67 wrist & J3 arm
- Average Power Consumption: Approx. 3 kW
- Controller: R-50iA
- Cutting Feed: Dependent execution block line distance
- Rapid Feed: 15 m/min
- Linear Movement Precision: 0.1 mm
- Spindle: LS-F40
- Spindle Power: 5 kW
- Taper: 30 taper
- RPM: 15,000
- System Power Requirements: Two lines, 480 VAC, 3 ph, 30 A
- Air Requirements: 90 psi

Automate Our Machines!

Add a robotic arm to any of our machines

At Levil Technology, we are committed to offering an innovative platform that empowers students to excel in the field of modern manufacturing. Our machines are designed for seamless automation, allowing students to learn the programming and operation of CNC machines and robotic arms with ease.

Our advanced equipment, featuring cutting-edge FANUC LR-Mate 200iD or CRX5 robots, allows students to gain practical experience in precision machining and robotic automation.

By automating these machines, we create a secure and controlled environment where students can safely practice programming and operation. Our educational automation systems cultivate innovation and creativity, equipping future manufacturing industry leaders with valuable skills.



LMV-L Series

LMV-F733 / LMV-F740 / LMV-F840 / LMV-F960

High Precision. Rigid. Efficient.

The LMV-L Series of VMCs is powerful, reliable, and offers fast movement of interpolation that meets your needs to stay productive. This series is designed with efficiency to meet the need for large quantity machining with shorter cycling time.

Major parts of the LMV-L structure are constructed of high-density cast iron for stability. The base is supported by full-travel, enabling high-speed machining.

The LMV-L Series serves a variety of industries, including aerospace, defense, automotive, energy, gas and oil, medical, job shops, and education.



Key Features and Benefits

The LMV-L Series vertical machining center is engineered with high efficiency and high accuracy to satisfy the need for large quantity-machining.

- Eco-friendly design includes a skimmer that separates oils from the coolant, making coolant cleaner and enabling it to be re-used instead of being discarded as toxic waste.
- Optimized structure and one-piece bearing seat and base design enhance rigidity.
- The one-piece bed and wide column base are heavily ribbed to prevent twisting and distortion under even the most severe cutting forces. The rigid cast-iron frame contributes to unparalleled damping characteristics.
- Heavy-duty and precise linear guideways on three axes are high grade, providing stability and heavy cutting.
- 3 axes direct transmission between servo motor and ballscrew that greatly boosts your efficiency.
- Legendary Levil service.

The LMV-L Series is built with linear guideways for smooth quick movement.

Machine Construction LMV-L Series

For machining precision, the LMV-L Series VMCs is designed with Finite Element Method (FEM) to calculate the displacements and stresses in the machine design due to operational loads. The series achieves superior stability with a high-density, cast-iron construction of its main structure (base, table, column, saddle). Precision is further enhanced by using pretensioned Class C3 ballscrews in all three axes, which are built with linear guideways for smooth, quick movement; the large Y-axis gives more room for machining wider parts. Servo motors directly coupled to the ballscrews increase movement sensitivity while dramatically reducing backlash. The machine base is supported by full travel, making it suitable for high-speed machining.



Specifications

Specifications			Recommended for Education					
Item	Description		LMV-F620		LMV-F733	LMV-F740	LMV-F840	LMV-F960
Table	Table size		700 x 320 mm [27.6" x 12.6"]		1,000 x 510 mm [39.4" x 20.1"]	1,200 x 510 mm [47.2" x 20.1"]	1,200 x 610 mm [47.2" x 24.0"]	1,650 x 635 mm [65.0" x 25.0"]
	T-slots (width x pitch x no.)		14mm x 110 mm x 3 [0.6" x 4.3" x 3]		18 mm x 100 mm x 5 [0.7" x 3.9" x 5]		18 mm x 100 mm x 5 [0.7" x 3.9" x 5]	18 mm x 125 mm x 5 [0.7" x 4.9" x 5]
	Max. table load		250 kg [550 lbs.]		500 kg [1,100 lbs.]	600 kg [1,320 lbs.]	600 kg [1,320 lbs.]	1,500 kg [3,300 lbs.]
Travel	X-travel		520 mm [20.5"]		850 mm [33.5"]	1,020 mm [40.2"]	1,020 mm [40.2"]	1,525 mm [60.0"]
	Y-travel		368 mm [14.5"]		530 mm [20.9"]		610 mm [24.0"]	635 mm [25.0"]
	Z-travel		380 mm [15.0"]		510 mm [20.1"]		550 mm [21.7"]	635 mm [25.0"]
Spindle	Spindle nose to table surface		150-530 mm [5.9"~20.9"]		150-660 mm [5.9"~26.0"]	130-640 mm [5.1"~25.2"]	130-680 mm [5.1"~26.8"]	125-760 mm [4.9"~29.9"]
	Spindle center to column		368 mm [14.5"]		585 mm [23.0"]		685 mm [27.0"]	
	Spindle taper		#40 BIG PLUS #30				#40 BIG PLUS	
	Spindle speed		Belt drive: 10,000 rpm Direct drive: 15,000 rpm				Belt drive: 10,000 rpm Direct drive: 12,000 rpm [Optional 15,000 rpm]	
	Spindle diameter		Ø60 mm [Ø2.4"] Ø50 mm [Ø2.0"]				Ø70 mm [Ø2.8"]	
Feed rates	Rapid traverse [X/Y/Z]		48/48/36 m/min [1,889/1,889/1,417 ipm]		36/36/24 m/min [1,417/1,417/944 ipm] Optional 36/36/30 m/min [1,417/1,417/1,181 ipm]		30/30/24 m/min [1,181/1,181/944 ipm] Optional 24/24/20 m/min [944/944/787 ipm]	
	Cutting feed [X/Y/Z]		1~10 m/min [39.3~393 ipm]				1~10 m/min [39.3~393 ipm]	
	Vertical axis counter weight		Pneumatic counterbalance				Pneumatic counterbalance	
Automatic tool changer	Tool storage capacity		20+1 arm type				24+1 arm type [Optional Arm: 30]	
	Tool shank		BT40 [Optional CT40* or DIN40] BT30 [Optional CT30 / DIN30]				BT40 [Optional CT40* or DIN40]	
	Tool change time [T-T]		1 sec.				2 sec.	
	Pull stud		P40T-1 P30T-1				P40T-1	
	Max. tool diameter with adjacent tool		Ø80 mm [Ø3.1"] Ø75 mm [Ø3.0"]				Ø80 mm [Ø3.1"]	
	Max. tool length		200 mm [7.9"]				300 mm [11.8"]	
	Max. tool weight		7 kg [15.4 lbs.] 4 kg [8.8 lbs.]				7 kg [15.4 lbs.]	
Motors	Spindle motor		Fanuc: 3.7/5.5 kW Fanuc: 2.2/3.7 kW		Fanuc: 11/15 kW Siemens: 9 kW Chevalier: 11 kW Mitsubishi: 7.5/11 kW Heidenhain: 10 kW		Fanuc: 11/15 kW Siemens: 12 kW Mitsubishi: 15/18.5 kW Heidenhain: 10 kW	
	Axis motors [X/Y/Z]		Fanuc: 1.2/1.2/1.2 kW Fanuc: 1.2/1.2/1.2 kW		Fanuc: 1.8/1.8/2.5 kW Siemens: 3.3/3.3/3.8 kW Chevalier: 2.9/2.9/4.4 kW Mitsubishi: 2/2/3.5 kW Heidenhain: 3.5/3.5/5.7 kW		Fanuc: 4/4/4 kW Siemens: 3.8/3.8/4.9 kW Mitsubishi: 3.5/3.5/3.5 kW Heidenhain: 5/5/5.7 kW	
	Coolant motor		0.59 kW [0.8 HP]				0.59 kW [0.8 HP]	
Power and air requirement	Power required		15 kVA		20 kVA		25 kVA	
	Total air consumption	Pressure Flow	6 kg/cm ² [86 psi] 200 NL/min [7 cfm]				6 kg/cm ² [86 psi] 200 NL/min [7 cfm]	
Tank capacity	Hydraulic tank		Optional 40/60 L				Optional 40/60 L	
	Spindle/Gearbox coolant tank		Optional 20/30 L				Optional 20/30 L	
	Oil/Grease tank		0.7 L		3 L		0.7 L	
	Coolant tank		126 L [33 gals.]		245 L [64 gals.]	315 L [83 gals.]	325 L [85 gals.]	429 L [113 gals.]
Machine dimension	Floor space (W x D x H)		1,680 x 2,950 x 2,445 mm [66.1" x 116.1" x 96.3"]		2,430 x 3,020 x 2,963 mm [95.7" x 118.9" x 116.7"]	2,800 x 3,020 x 2,963 mm [110.2" x 118.9" x 116.7"]	2,800 x 3,130 x 3,050 mm [110.2" x 123.2" x 120.0"]	4,370 x 3,635 x 3,280 mm [172.0" x 143.1" x 129.1"]
	Net weight		2,300 kg [5,070 lbs.]		5,800 kg [12,700 lbs.]	6,200 kg [13,600 lbs.]	6,700 kg [14,770 lbs.]	8,500 kg [18,700 lbs.]
Accuracy	Positioning accuracy		0.007 mm [0.00028"]				0.010 mm [0.00040"]	
	Repeatability accuracy		0.005 mm [0.00020"]				0.007 mm [0.00028"]	
	Accuracy standard		VDI 3441				VDI 3441	

All content is for reference only and may be subject to change without notice or obligation.

LTC-F Series

LTC-F140 / LTC-F200 / LTC-F300

Precision. Power. Productivity.

The LTC-F Series CNC lathes are designed to deliver reliable turning performance for a wide range of production applications. With multiple machine sizes and configurations available, the series provides the flexibility to handle everything from smaller precision components to larger, more demanding parts. Built around high-precision spindle systems, rigid construction, and efficient tooling configurations, the LTC-F Series is engineered to provide consistent machining accuracy, fast cycle times, and dependable performance in demanding manufacturing environments. Across the series, spindle speeds range up to 6,000 rpm, with spindle runout specified at 0.003 mm.

Key Features and Benefits

The **LTC-F Series** combines precision turning technology with flexible machine configurations to meet a variety of production requirements.

- High-Precision Spindle Systems – Designed for accurate, stable turning performance and consistent part quality.
- Multiple Machine Sizes – Choose from the compact LTC-F140, versatile LTC-F200, or higher-capacity LTC-F300 platform.
- High Spindle Speeds – Up to 6,000 rpm on the LTC-F140 and up to 4,500 rpm on LTC-F200 configurations.
- Hydraulic Turret Options – High-precision hydraulic cam turret configurations support fast and repeatable tool changes.
- Gang Tool Configuration Available – The LTC-F140A provides a gang-style tooling option for efficient small-part production.
- Sub-Spindle Capability – The LTC-F200S expands machining flexibility for more complete part processing.
- Mill-Turn Capability – LTC-F200MC and LTC-F300MC models combine milling and turning operations within one machine.
- C-Axis Indexing – MC configurations provide accurate C-axis spindle indexing for more complex machining operations.
- Flexible Tooling Capacity – Depending on configuration, machines support gang tooling and turret systems with up to 12 tool positions.
- Production-Focused Design – Multiple spindle, chuck, tooling, and machine-size options allow the LTC-F Series to be configured around specific manufacturing requirements.

The LTC-F Series delivers precision turning, flexible configurations, and dependable performance for modern production.

Machine Construction – LTC-F Series

The LTC-F Series is built to provide the rigidity and stability required for precision CNC turning. High-precision spindle assemblies, hydraulic tooling systems, and robust machine structures work together to maintain accuracy during demanding cutting operations.

The series scales from the compact LTC-F140 with a 6-inch chuck, through the LTC-F200 with 8-inch chuck configurations, to the larger LTC-F300 with 10-inch chuck configurations, allowing manufacturers to select the right platform based on part size, production requirements, and machining complexity.



For more advanced applications, the MC models integrate milling and turning capabilities, while other configurations add options such as sub-spindle machining, hydraulic turrets, tailstocks, and expanded tooling capacity.

Standard & Optional Accessories

● Standard △ Optional

MODEL	LTC-F140A Gang Type	LTC-F140	LTC- F200S	LTC- F200/HT	LTC- F200MC	LTC- F300/P	LTC- F300MC
6" Hydraulic chuck	●	●	-	-	-	-	-
8" Hydraulic chuck	△	△	●	●	●	-	-
10" Hydraulic chuck	-	-	-	-	-	●	●
Hard jaws (set)	6"x1	6"x1	8"x1	8"x1	8"x1	10"x1	10"x1
Soft jaws (set)	6"x1	6"x1	8"x1	8"x1	8"x1	10"x1	10"x1
Hydraulic turret	●	●	●	●	-	●	-
Servo turret	△	△	△	△	-	△	-
VDI power turret	-	-	-	-	●	-	●
Boring bar holder	1	5	4	5	-	5	-
Face holder	1	2	1	2	-	2	-
Tool sleeve (set)	1	1	1	1	-	1	-
O.D. tool holder	1	-	-	-	-	-	-
Bidirectional tool holder	1	-	-	-	-	-	-
Radial power tooling holder	-	-	-	-	△	-	△
Axial power tooling holder	-	-	-	-	△	-	△
Coolant system	●	●	●	●	●	●	●
Moveable coolant tank	●	●	●	●	●	●	●
1 set leveling bolts and pads	●	●	●	●	●	●	●
Grease lubrication system	△	△	△	△	△	△	△
Centralized lubrication system	●	●	●	●	●	●	●
Work lamp	●	●	●	●	●	●	●
Foot pedal for hydraulic chuck	●	●	●	●	●	●	●
Tool kit	●	●	●	●	●	●	●
Manual	●	●	●	●	●	●	●
Chip conveyor and bucket	●	●	●	●	●	●	●
MT3/MT4 live center	-	△	△	●	●	●	●
Programmable tailstock	-	-	-	△	△	△	△
3 color warning light	△	△	△	△	△	△	△
Parts catcher	△	△	△	△	△	△	△
Manual tool setting probe	△	△	△	△	△	△	△
Auto tool setting probe	△	△	△	△	△	△	△
Oil skimmer	△	△	△	△	△	△	△
Oil mist collector	△	△	△	△	△	△	△
Transformer	△	△	△	△	△	△	△
CE safety accessories	△	△	△	△	△	△	△
Automatic door (pneumatic driven)	△	△	△	△	△	△	△
Pedal switch for tailstock	△	△	△	△	△	△	△
Bar feeder and interface	△	△	△	△	△	△	△
Collet chuck	△	△	△	△	△	△	△
Work blower	△	△	△	△	△	△	△
High pressure cooler	△	△	△	△	△	△	△



Manual, Auto Tool Setter



Parts Catcher



Robot

Specifications

Description		LTC-F140A	LTC-F140	LTC-F200S	LTC-F200	LTC-F200HT	LTC-F200MC	LTC-F300E	LTC-F300(P)	LTC-F300MC
Swing over bed	inch (mm)	18.5 (470)						23.6 (600)		
Swing over cover	inch (mm)	5.5 (140)	11.2 (284)		12.5 (318)			13.3 (338)		
Max. cutting dia.	inch (mm)	11.0 (280)	10.2 (260)	9.84 (250)	11.5 (292)	11.8 (300)	6.77 (172)	17.7 (450)		13 (330)
Max. cutting length	inch (mm)	11.4 (290)		10.5 (266)	19.7 (500)	18.9 (479)	17.5 (444)	17.7 (450)	27.6 (700)	26.3 (669)
Distance between center	inch (mm)	-	15.6 (397)	16.5 (419)	24.4 (620)			20.1 (510)	31.9 (810)	
Spindle nose	ASA	A2-5	A2-5	A2-6	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8
Chuck size	inch	6	6	8	8	8	8	10	10	10
Spindle hole dia.	inch (mm)	2.24 (57)		2.44 (62)				3.46 (88)		
Spindle Speed	rpm	6000	6000	4500	4500	4500	4500	3000	3000	3400
Spindle Motor (cont./30min)	HP (kW)	10/15 (7.5/11)	10/15 (7.5/11)	10/15 (7.5/11)	10/15 (7.5/11)	15/20 (11/15)	15/20 (11/15)	15/20 (11/15)	20/25 (15/18.5)	20/25 (15/18.5)
Spindle runout	mm	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Max. bar material dia.	inch (mm)	1.77 (45), Opt: 2.05(52)		2.05(52)	2.05(52) /opt. 2.56 (65)			2.95 (75)		
Z axis travel	inch (mm)	12.60 (320)			20.47 (520)			19.69 (500)	30.00 (762)	
X axis travel	inch (mm)	12.60 (320)	5.91 (150)		6.93 (176)		6.34 (161)	10.24 (260)		
Z axis rapid traverse	IPM (M/min)	1181 (30)						944 (24)		
X axis rapid traverse	IPM (M/min)	1181 (30)						788 (20)		

MODEL			LTC-F140A	LTC-F140	LTC-F200S	LTC-F200	LTC-F200HT	LTC-F200MC	LTC-F300E	LTC-F300(P)	LTC-F300MC
Number of tools		5 - gang		10 (12)	8	10 (12)	10 (12)	12	10 (12)	10 (12)	12
Turning tool size		inch	3/4 x 3/4		1 x 1	3/4 x 3/4	1 x 1	3/4 x 3/4	1 x 1		
		mm	20 x 20		25 x 25	20 x 20	25 x 25	20 x 20	25 x 25		
Boring bar size		inch (mm)	1 1/4 (32)				1 3/4 (40)	1 1/4 (32)	1 3/4 (40)		
Tailstock travel		inch (mm)	-	9.8 (250)		17.7 (450)				24.7 (627)	
Quill travel		inch (mm)	-	3.2 (80)		4.0 (100)			4.7 (120)		
Quill dia.		inch (mm)	-	2.76 (70)		2.95 (75)			3.35 (85)		
Quill taper hole		Morse	-	MT4		MT5					
Quill drive			-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailstock positioning			-	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Dimension	L	feet inches (M)	6' 11" (2.1)			9' 2" (2.8)			10' 6" (3.2)		
	W	feet inches (M)	5' 3" (1.6)			5' 6" (1.7)			5' 11" (1.8)		
	H	feet inches (M)	5' 3" (1.6)						5' 11" (1.8)		
Maching Weight		lb	5,940	6,160	6,160	8,470	8,580	8,690	11,440	12,320	12,540
		kg	2,700	2,800	2,800	3,850	3,900	3,950	5,200	5,600	5,700

LTV Series

High Precision. Versatility. Productivity.

The LTV-F8, F12, F20 and F24 Series meets the need to integrate automation or cell manufacturing into the market. This series is widely used in the automotive parts, engines and compressor industries by using a simplified fixture design and is excellent for turning irregular shaped workpieces. The automotive industry's lightweight and environmental restrictions and the popularity of alternative energy vehicles are driving a substantial increase in the demand of forged aluminum wheels.

With our steel-inlaid guideway technology, this series adopts the dual-turret dual-system configuration that simultaneously handles the inner and outer diameter of the aluminum wheels. The machining range can reach 26" aluminum wheels, which greatly reduces machining time. The 6+6 turret provides additional flexibility for tool selection.

Our exclusive iMachine Communications System™ (iMCS) software includes remote machine monitoring, data analysis, alarm history and maintenance updates to improve overall equipment efficiency (OEE). Working with Chevalier's software, an operator easily controls the machine with simple procedures to increase productivity.



Key Features and Benefits

With this series small footprint, multiple machines can be arranged side by side, meeting the needs of an automatic production line for mass production.

- Large slant-bed chip-removal design with strong coolant to remove all chips.
- The special square-steel-inlaid guideway design provides superior cutting rigidity.
- The steel-inlaid guideway with wear-resistant technology greatly dampens vibration and improves accuracy.
- Ultra-high precision spindle with runout accuracy of less than 0.003 mm (0.00012"). Assembly requirement is 0.002 mm (0.00008").
- The labyrinth spindle provides the best protection against dust, water, and chips.
- The super-heavy cutting servo turret design provides the best dynamic cutting rigidity and tool change stability.
- The whole machine is constructed with professional assembly fixtures to achieve the highest precision and uniform quality.
- Overall fixture design and processing procedure evaluation is included.



This Series is ideal for automation or cell manufacturing and the simplified fixture design is excellent for processing irregular shaped workpieces.

Item	Description	LTV-F8	LTV-F8HT	LTV-F12HT	LTV-F12HTL	LTV-F12MC	LTV-F20HT	LTV-F20DT	LTV-F24DT	LTV-F24VT
Capacity	Max. swing diameter	Ø400 mm (15.7")		Ø550 mm (Ø21.7")			Ø750 mm (Ø29.5")	Ø670 mm (Ø26.4")		Ø850 mm (Ø33.5")
	Max. cutting diameter	Ø220 mm (8.7")	Ø200 mm (7.9")		Ø350 mm (Ø13.8")		Ø550 mm (Ø21.7")	Ø558 mm (Ø22.0")		Ø750 mm (Ø29.5")
	Max. turning height	430 mm (16.9")		550 mm (21.7")		430 mm (16.9")	430 mm (16.9")		400 mm (15.7")	
Spindle	Spindle speed	50~3,500 rpm		50~3,500 rpm			50~2,000 rpm		50~2,500 rpm	
	Chuck size	8"		12"			15"			
	Spindle nose type	A2-6		A2-8			A2-11	Ø250		A2-11
	Spindle bearing I.D.	Ø100 mm (Ø3.9")		Ø130 mm (Ø5.1")			Ø160 mm (Ø6.3")	Ø140 mm (Ø5.5")		Ø160 mm (Ø6.3")
	Spindle nose to space	864 mm (34.0")		886 mm (34.9")			950 mm (37.4")	1,040 mm (Ø40.9")		
	Spindle center to outside	340 mm (13.4")		400 mm (15.7")			430 mm (16.9")	550 mm (Ø21.7")		620 mm (Ø24.4")
Turret	Turret type	Gang	Horizontal		Horizontal		Sauter	Horizontal		Vertical
	Tool storage capacity	2	8		12		8	12		6+6
	Turret No.	1		1			1	2		1
	O.D. tool shank size	25 x 25 mm	20 x 20 mm		25 x 25 mm		Optional 25 x 25 mm		32 x 32 mm	
	I.D. tool shank size	Ø32 (Ø31.75)	Ø25 (Ø25.4)		Ø40 (Ø38.1)		Optional Ø40 (Ø38.1)		Ø40 (Ø38.1)	
Travel	X-travel	235 mm (9.3")		190 mm (7.5")		290 mm (11.4")	-30 mm, +405 mm (-1.2", +15.9")		-75.5 mm, +312 mm (-3.0", +12.3")	
	Z-travel	430 mm (16.9")		550 mm (21.7")			600 mm (23.6")		415 mm (16.3")	
Feed rates	X-axis rapid traverse			20 m/min (787 ipm)					20 m/min (787 ipm)	
	Z-axis rapid traverse			20 m/min (787 ipm)					20 m/min (787 ipm)	
	Vertical axis counter weight system			Pneumatic counter weight system					Hydraulic counter weight system	
	X / Z axes ball screw diameter	Ø28 mm / Ø6 mm (Ø1.1" / Ø0.2")		Ø36 mm / Ø10 mm (Ø1.4" / Ø0.4")					Ø36 mm / Ø10 mm (Ø1.4" / Ø0.4")	
Motors	Spindle motor	9 kW / 11 kW (α18iP)		18.5 kW / 22 kW (α40iP)			Fanuc :18.5 kW / 22 kW (α40iP) Optional: 30 kW / 37 kW (α30i) FVL-20DT, FVL-24VT, 45 kW / 55 kW (α50i) FVL-24DT			
	Axis motors (X / Z)	1.6 kW / 1.6 kW		3 kW / 3 kW			3 kW / 4 kW		4 kW / 4 kW	
	Turret motor	—		1.2 kW			—		1.6 kW	
Tailstock	Tailstock stroke			444 mm (17.5")		—			—	
	Centers stroke			120 mm (4.7")		—			—	
	Centers taper			MT5		—			—	
	Centers drive			Oil pressure		—			—	
	Tailstock positioning			Manual		—			—	
Power and air requirement	Power required	20 kVA		35 kVA			50 kVA	75 kVA		90 kVA
	Voltage			220 V					220 V	
	Total air consumption	Pressure		6 kg/cm² (86 psi)					6 kg/cm² (86 psi)	
Tank capabilities		Flow		200 NL/min (7 cfm)					200 NL/min (7 cfm)	
	Hydraulic tank capacity			30 L			50 L	100 L		60 L
	Oil/grease tank capacity			3 L				3 L		
Machine dimension		Coolant tank capacity		300 L (66 gals)				1,050 L (231 gals)		
	Floor space (W x D x H)	1,623 x 2,955 x 2,598 mm (63.9" x 116.3" x 102.3")		1,980 x 2,850 x 3,200 mm (78.0" x 112.2" x 126.0")			2,080 x 3,067 x 3,457 mm (81.9" x 120.7" x 136.1")	3,630 x 4,655 x 3,445 mm (142.9" x 183.3" x 135.6")	3,780 x 4,655 x 3,445 mm (148.8" x 183.3" x 135.6")	3,145 x 4,655 x 3,445 mm (123.8" x 183.3" x 135.6")
	Net weight	3,600 kg (7,900 lbs.)		5,650 kg (12,400 lbs.)		5,950 kg (13,100 lbs.)	9,000 kg (19,800 lbs.)	13,000 kg (28,600 lbs.)		11,000 kg (24,200 lbs.)
Accuracy	Positioning accuracy	0.007 mm (0.00028")		0.01mm (0.00040")					0.01mm (0.00040")	
	Repeatability accuracy	0.005 mm (0.00020")		0.007mm (0.00028")					0.007mm (0.00028")	
	Accuracy standard			ISO3655					ISO3655	

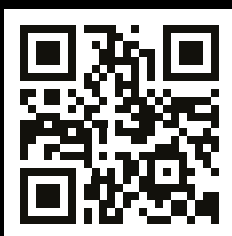


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