

LAGUN

ENGINEERING



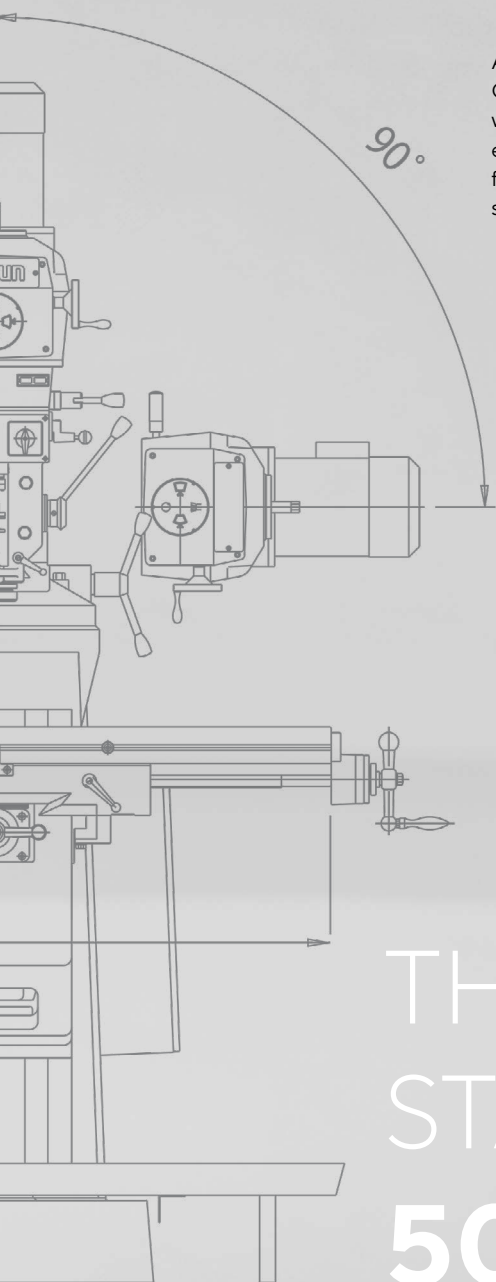
Republic
LAGUN
Machine Tool Co.

WWW.LAGUN.COM



When you purchase a Lagun, you join the Lagun family.

At Lagun Engineering, we're proud to be one of the oldest machine tool OEMs in the U.S. With more than 95,000 machines installed worldwide, we are committed to building high-quality machinery and provide you with exceptional customer service. No matter the task, we'll build the right machine for your specific job, with the utmost attention to detail. Three generations strong, we stand committed to helping you create your vision.



THE INDUSTRY
STANDARD FOR OVER
50 YEARS.





Dedicated. Reliable. Honest.

Three words we don't take lightly.

At Lagun Engineering, we design and build our manual machines with an unfailing commitment to quality, performance and value. With our extensive range of capabilities, we service many industries, including power generation, renewable energy, aerospace, medical, automotive, railway, earthmoving, iron, steel, oil, gas, and construction, along with the Department of Defense. What's more, we can create custom machines for virtually any special application. Whatever your need, we'll build you the right machine for the job.

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Lagun Vertical Mills

FTV-2F | FTV2FE

This vertical knee mill has a mechanical infinite variable speed head, and also available with an electric variable speed head, providing full HP at all RPMs. Plus, it can be upgraded to a CNC Knee Mill Millmatic II or III

Table Size:	55" x 10" (1,403 x 254 mm)
Max. Weight on Table:	750 lb (341 kg)
Main Motor:	5 HP (3.72 kW)
Spindle Speed Range:	55 - 4,250 RPM



FTV-2F



MILLMATIC III

MILLMATIC II & III - CNC

The Millmatic series of CNC/Manual mills provide the ideal solution for the typical combination of prototype, short-run to medium-run production. Millmatic III is standard with EVS head and airbrake.

Table Size:	55" x 10" (1,403 x 254 mm)
Max. Weight on Table:	750 lb (341 kg)
Main Motor:	5 HP (3.72 kW)
Spindle Speed Range:	55 - 4,250 RPM

Controls available (Fanuc, Siemens, Acu-Rite, Fagor)

MVM 4E

Lagun's Megamill milling machines have special high-strength, gray cast iron produced by the Meehanite process and is standard with electronic variable speed (EVS), giving them extra flexibility in the available speeds. It also comes standard with power feeds making it a very robust milling machine.

MVM 4E

Table Size:	58" x 12" (1,473 x 305 mm)
Max. Weight on Table:	1,200 lb (544 kg)
Main Motor:	5 HP (3.72 kW)
Spindle Speed Range:	60 - 4,300 RPM



MVM-4E



MEGA-4

MEGA 4 SURFACE & VOLUME - CNC

Megamill Surface feature a 2-Axis Acurite Millpwr G2 CNC control with a 3-Axis D.R.O. The Megamill Volume models feature a 3-Axis Acurite Millpwr G2 CNC control with a 4-Axis D.R.O.

MEGA 4 SURFACE 2 AXIS

MEGA 4 VOLUME 3 AXIS

Table Size:	58" x 11" (1,473 x 279 mm)	58" x 11" (1,473 x 279 mm)
Max. Weight on Table:	1,200 lb (545 kg)	1,200 lb (545 kg)
Main Motor:	5 HP (3.72 kW)	5 HP (3.72 kW)
Spindle Speed Range:	5 - 4,200 RPM	5 - 4,200 RPM

VERTICAL HORIZONTAL MILLS

FU | FUTV | FCM

These high-quality combination Horizontal/Vertical Milling Machines exemplify the Lagun product line: rugged, durable, flexible and precise.

	FU 130 SU	FU 152 U / FUTV 152 QM	FU 185 U / FUTTV 185 QM	FCM 152	FCM 185 M
Table Size:	51" x 11" (1,300 x 280 mm)	60" x 13" (1,525 x 325 mm)	73" x 14" (1,850 x 350 mm)	50" x 14" (1,500 x 350 mm)	73" x 14" (1,850 x 350 mm)
Max. Weight on Table:	660 lb (300 kg)	880 lb (400 kg)	1,102 lb (500 kg)	1,540 lb (700 kg)	1,540 lb (700 kg)
Main Motor:	5.5 HP (4.1 kW)	7.5 HP (5.6 kW)	10 HP (7.5 kW)	7.5 HP (5.6 kW)	10 HP (7.5 kW)



FU-130-EF



VBMA-1000

CNC VERTICAL BED MILLS

800 | 1000 | 1300 | 1600

These American Vertical Bed Milling machines come standard with features such as 5-HP Motor and Electronic Variable Speed.

	VBMA 800	VBMA 1000	VBMA 1300	VBMA 1600
Table Size:	12" x 50" (305 x 1,270 mm)	16" x 60" (400 x 1,520 mm)	18" x 71" (450 x 1,800 mm)	20" x 87" (500 x 2,200 mm)
Main Motor:	5 HP (3.7 kW)	5 HP (3.72 kW)	5 HP (3.72 kW)	5 HP (3.72 kW)
Spindle Speed Range:	60 - 5,000 RPM	60 - 5,000 RPM	60 - 5,000 RPM	60 - 5,000 RPM

ULTRA HIGH PRECISION LATHES

MANUAL / CNC

ATV | ATC | ET | TR | SO | FL | HC | TM

Available in 3- or 5-HP models, these Ultra High Precision Tool Room lathes offer infinitely variable speeds and feeds and have a guaranteed circular accuracy to 50 millionths of an inch.

Swing Over Bed:	9" - 13" (229 - 330 mm)
Distance Between Centers:	15" - 18" (380 - 457 mm)
Motor:	5 - 25 HP (3.72 - 18.6 kW)
Spindle Speed Range:	0 - 4,000 RPM

Controls available (Fanuc, Siemens, Acu-Rite, Fagor, CNC)



ATV-618-TR

AMERICAN TURNMASTER / ENGINE TOOL ROOM LATHES

MANUAL / CNC

AT | RL | ML | LS

Our American Turnmaster lathes are all manual with 3-V ways, the ideal design to ensure rigidity, accuracy, and smooth operation. Lathes are optional with Digital Read-Out System (DRO), Electronic Variable Speed (EVS), or geared head.

Swing Over Bed:	13" - 36" (330 - 914 mm)
Distance Between Centers:	40" - 280" (1,000 - 7,000 mm)
Motor:	5 - 25 HP (3.72 - 18.6 kW)
Spindle Speed Range:	25 - 2,000 RPM



RL-1660-G-TW



AT-21120-G-TW

AT / RL / ML / LS CNC

Swing Over Bed:	13" - 36" (330 - 914 mm)
Distance Between Centers:	40" - 280" (1,000 - 7,000 mm)
Motor:	5 - 25 HP (3.7 - 18.6 kW)
Spindle Speed Range:	25 - 3,000 RPM



AT-1640-G-TW-CNC

AMERICAN TURNMASTER / BIG BORE LATHES

POWER SERIES ONE & FIVE

- One piece (monolithic) bed, floor type casting
- Three bedway design with extra way supporting the apron
- All ways are hardened and ground
- Forged steel spindle with opposed taper roller bearings (6" Bore)
- Hardened and ground gears, shafts, cross slide ways and screw
- Electromagnetic spindle brake
- Totally enclosed universal inch / metric gear box
- 18 speed geared headstock / 2 speed tailstock quill (Manual)
- 6-way rapid traverse and power feed to top slide
- Thread chasing dial
- Overload safety device on apron
- Dual voltage motor and controls, 20 to 50 HP

POWER SERIES ONE

	35-1	40-1	45-1	50-1
Swing Over Bed	35" (890mm)	40" (1016mm)	45" (1135mm)	50" (1275mm)
Swing Over Cross Slide	24" (610mm)	29" (740mm)	34" (870mm)	40" (1016mm)
Distance Between Centers	60" (1500mm) ~ 480" (12000mm) in 40" increments			
Spindle Type	A2-11 or A2-15			
Spindle Bore	6.025" (153mm) - Additional options available			
Spindle Speed - Standard	(18 Steps) 6 ~ 740 RPM - Additional options available			
Main Motor	Standard - 20 HP (15kW); Optional - 30 HP (22kW) or 40 HP (30kW)			

POWER SERIES FIVE

	45-5	50-5	60-5	70-5
Swing Over Bed	45" (1135mm)	50" (1275mm)	60" (1527mm)	70" (1790mm)
Swing Over Cross Slide	32" (810mm)	37" (950mm)	47" (1201mm)	57" (1460mm)
Distance Between Centers	60" (1500mm) ~ 480" (12000mm) in 40" increments			
Spindle Type	A2-11, A2-15, A2-20, A2-28, or A2-32			
Spindle Bore	6.025" (153mm) - Additional options available			
Spindle Speed - Standard	(18 Steps) 7 ~ 700 RPM - Additional options available			
Main Motor	Standard - 30 HP (22kW); Optional - 40 HP (30kW) or 50 HP (37kW)			



POWER SERIES SIX & SEVEN

- Massive one piece floor type bed and base (no pedestals) for maximum rigidity and vibration absorption
- Highest quality Meehanite G-50 castings
- 4 shear bed with dual way center guide plus front lateral way for carriage support under heavy cutting
- Automatic lubrication throughout
- Massive power tailstock with built-in rotary (live) center; Movement of body on bedways and quill travel controlled by hydraulics
- A2-15 American Standard spindle nose with 9" (230mm) spindle bore is standard on Power Seven models; 6" (153mm) on Power Six models
- Variable spindle speeds in 4 automatic ranges through pneumatic shifting, 10 ~ 300 RPM
- Hardened and precision ground headstock gears
- 6-way rapid traverse and geared power feed to top slide
- Carriage mounted pendant controls, and pendant controls for tailstock

POWER SERIES SIX

	50-6	60-6	70-6	80-6
Swing Over Bed	50" (1275mm)	60" (1527mm)	70" (1790mm)	80" (2032mm)
Swing Over Cross Slide	35" (890mm)	45" (1137mm)	55" (1400mm)	65" (1650mm)
Distance Between Centers	80" (2023mm) ~ 480" (12000mm) in 40" increments			
Spindle Type	A2-11, A2-15, A2-20, A2-28, or A2-32			
Spindle Bore	6.025" (153mm) - Additional options available			
Spindle Speed - Standard	(Variable) 18 ~ 1000 RPM - Additional options available			
Main Motor	Standard - 40 HP (30kW); Optional - 70 HP (56kW)			

POWER SERIES SEVEN

	70-6	80-7	90-7	100-7
Swing Over Bed	70" (1790mm)	80" (2032mm)	90" (2290mm)	100" (2540mm)
Swing Over Cross Slide	53" (1350mm)	63" (1590mm)	73" (1840mm)	82" (2090mm)
Distance Between Centers	80" (2023mm) ~ 480" (12000mm) in 40" increments			
Spindle Type	A2-15			
Spindle Bore	9.05" (230mm) - Additional options available			
Spindle Speed - Standard	(Variable) 10 ~ 300 RPM - Additional options available			
Main Motor	Standard - 75 HP (56kW) Inverter Drive; Optional - 125 HP (96kW) Inverter Drive			



DRILLS



RADIAL DRILLS

Models	RL-855	RL-955	RL-1055	RL-1230	RL-1380	RL-1380H	RL-1400-H	RL-1760-H	RL-1805-H	RL-2000-H	RL-2775
Dimensions											
Column diameter	8.3" (210mm)	8.3" (210mm)	8.3" (210mm)	10.2" (260mm)	11.8" (300mm)	11.8" (300mm)	11.8" (300mm)	12.6" (320mm)	17" (432mm)	17" (432mm)	21.7" (550mm)
Column surface to spindle center-min.	8.7" (220mm)	8.7" (220mm)	8.7" (220mm)	11.0" (280mm)	13.4" (340mm)	13.4" (340mm)	14.2" (360mm)	13.8" (350mm)	17.3" (440mm)	19.3" (490mm)	19.7" (500mm)
Column surface to spindle center-max.	29.5" (750mm)	33.5" (850mm)	37.4" (950mm)	43.3" (1,100mm)	46.1" (1,170mm)	46.1" (1,170mm)	49.2" (1,250mm)	63" (1,600mm)	62.2" (1,580mm)	78.7" (2,000mm)	98.4" (2,500mm)
Travel of head on arm ways	20.9" (530mm)	24.8" (630mm)	28.7" (730mm)	32.3" (820mm)	35" (890mm)	35" (890mm)	35" (890mm)	49.2" (1,250mm)	44.9" (1,140mm)	59.4" (1,510mm)	78.7" (2,000mm)

FLOOR DRILLS

Floor drills are available as different models:

- TS = Manual Feed
- TSE = Automatic Feed and Electromagnetic clutch
- TSA = Automatic Feed
- TSV / TSAV = Geared Drive and Electronic Variable Speed
- R = Coolant system

Models	RFD-25-TS	RFD-30-TS	RFD-25-TSA	RFD-30-TSA	RFD-32-TSA	RFD-35-TSA	RFD-40-TSA	RFD-45-TSA
Dimensions								
Max. drilling cap. in steel 154.3lb (70kg)	1" (25mm)	1" (30mm)	1" (25mm)	1" (30mm)	1.26" (32mm)	1.37" (35mm)	1.25" (40mm)	1.77" (45mm)
Max. tapping cap. in steel 154.3lb (70kg)	M.22	M.25	M.25	M.25	M.28	M.30	M.32	M.35
Transmission	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)	GEARS (Hardened & grounded)
Morse taper no.	20.9" (530mm)	24.8" (630mm)	28.7" (730mm)	32.3" (820mm)	35" (890mm)	35" (890mm)	35" (890mm)	49.2" (1,250mm)
Spindle stroke	MT.3	MT.3	MT.3	MT.3	MT.4	MT.4	MT.4	MT.4
Main motor 1500 RPM (STD.) (without inverter)	1.1/1.6 HP	1.5/1.9 HP	1.1/1.6 HP	1.5/1.9 HP	1.1/1.5 HP	1.2/2 HP	2 HP	3 HP



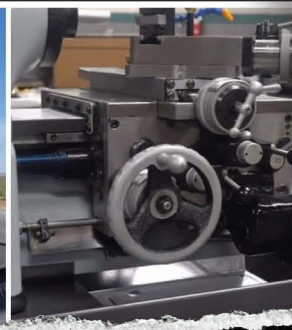
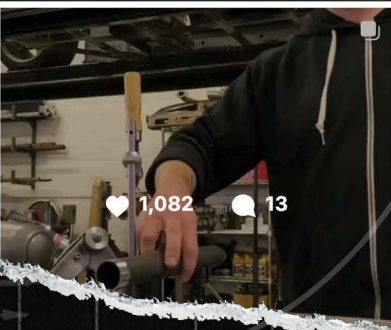
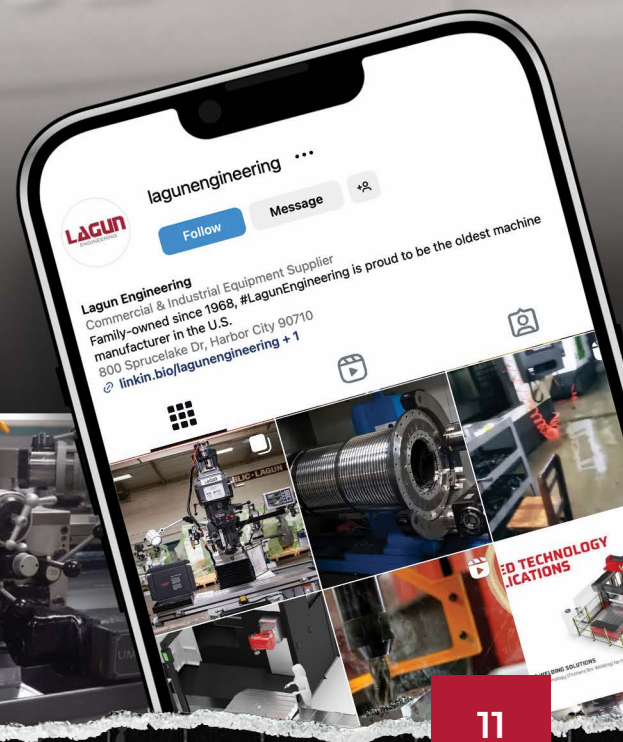
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We are committed to delivering outstanding quality, value, and reliable service throughout the lifetime of your product. Additionally, we offer on-call services with a 24-hour response guarantee and maintain a vast inventory of over three million replacement parts and accessories, ensuring minimal downtime and maximum productivity for your operations.



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