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# CHEVALIER®

Grinding / Turning / Milling

We shape your ideas.



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## PRODUCT GUIDE



# We shape your ideas.



## ABOUT CHEVALIER MACHINERY

Established more than 30 years ago, Chevalier Machinery USA is a leading manufacturer of grinding, turning and milling machining centers. Our machines are assembled in our own 9001-certified facilities that include departments for R&D, machining, sheet metal production and electronics. We provide superior solutions to our clients in a variety of industries, including aerospace, automotive, construction, defense, wind turbine, gas and oil products, medical, printing, semiconductor, mold and tool and die. Chevalier regularly exhibits its products at well-attended national and international trade shows. And with our extensive network of well-qualified dealers, Chevalier offers on-time delivery, fast service and competitive pricing.

Chevalier Machinery is the United States branch company of Falcon Machine Tools, a Taiwanese-based machine tool manufacturer with branches and agents in Europe, the Middle East, Mainland China, South America and the U.S. Established in 1978, Falcon is a publicly traded company listed on the Taiwan Stock Exchange. Chevalier's impressive showroom, main parts, warehousing, distribution and training/tech-support center is in the Los Angeles suburb of Santa Fe Springs.

## QUALITY CONTROL

Chevalier follows the most-stringent quality control process, from casting to assembly to final testing. We have been a quality control leader since our inception, garnering almost every QC award in the world. All of our machines after assembly are measured and calibrated by state-of-the-art laser calibration and ball bar test

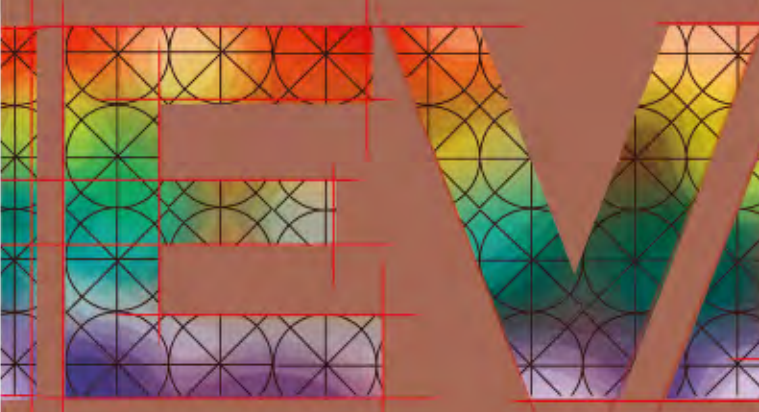
equipment. This ensures precise verification and compensation of our machines, resulting in increased accuracy and repeatability. Engineers, who oversee inspection stations, design our machines to ensure that all aspects of the manufacturing process meet the designer's specific requirements.

## RESEARCH AND DEVELOPMENT



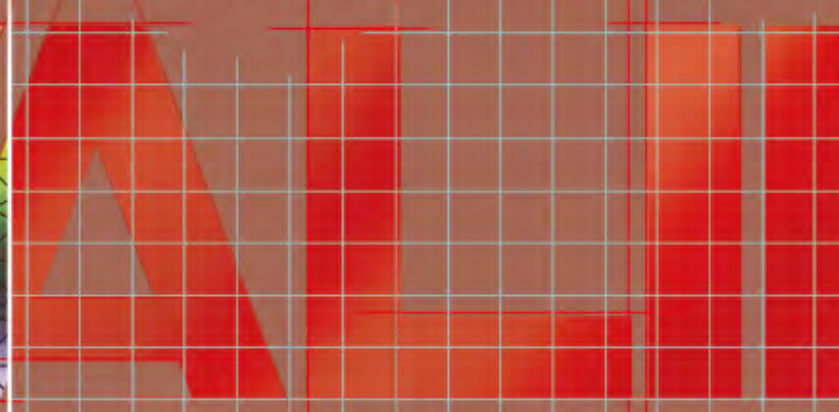
*Our state-of-the-art R&D division includes design, prototype development, applications, electrical and electronics.*

## MANUFACTURING



*Spindle assembly in temperature controlled clean room for increased accuracy and repeatability.*

## QUALITY CONTROL



*Coordinate measuring machine (CMM) for mechanical component inspection. The CMMs provide the tools to precisely inspect critical dimensions.*

## SALES, SERVICE AND PARTS



*Highly experienced service engineers, technical and sales staff travel around the world to give assistance to our distributors and end-users. Our LA facility includes a comprehensive inventory of parts for all machines sold in the US.*

## CHEVALIER'S RESEARCH AND DEVELOPMENT

Our state-of-the-art R&D division includes design, prototype development, applications, electrical and electronics. The CAD division uses 3-D/Pro-E software that enables design engineers to achieve finite element analysis and dynamic simulation through all phases of the design process. This ensures maximum accuracy, flexibility and rigidity of all Chevalier machines.

## CHEVALIER'S MANUFACTURING FACILITY

All precision machining projects are completed in-house with dedicated, top-notch CNC manufacturing machines. All structural assembly work, including electrical and controls, are mastered by our team of highly trained and experienced assembly engineers.

## SALES, SERVICE AND PARTS

Customer satisfaction is always the highest priority at Chevalier. Our knowledgeable service engineers, technicians and sales representatives travel around the world to provide assistance to our dealers and end-users. Our after-sales service fleet is available to our service engineers and technicians. Chevalier's expert network of dealers in more than 80 countries is thoroughly trained

to adhere to Chevalier's superior customer service standards. Our modern warehouse facility in the Los Angeles area maintains a comprehensive inventory of parts for all machines sold in the United States and Canada. A well-educated staff also conducts thorough service training programs for our dealers and end-users.





## Grinding Machines



Double Column Grinding Machine		Production CNC Grinder		Vertical Grinder	Linear Motor Drive Grinder	Nano Precision Hydro-Static CNC Grinder	Surface and Profile CNC Grinder	
<ul style="list-style-type: none"> <li>• Moving Beam Type</li> <li>• SMART Control</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Beam Type</li> <li>• SMART Control</li> </ul>	<ul style="list-style-type: none"> <li>• Column Travel</li> <li>• Creep Feed function</li> </ul>	<ul style="list-style-type: none"> <li>• Double Column Travel</li> <li>• Dual Spindle</li> </ul>	<ul style="list-style-type: none"> <li>• Siemens or SMART Control</li> <li>• High Precision</li> <li>• High Spindle Speed</li> </ul>	<ul style="list-style-type: none"> <li>• Siemens Linear Motor &amp; SMART Control or FANUC Linear Motor &amp; 18iMB Control</li> <li>• X Axis with 2.5G Acceleration</li> <li>• Max. Table Speed: 100m/min</li> </ul>	<ul style="list-style-type: none"> <li>• Hydro-Static System is Available on 3 Axes and Spindle</li> <li>• Least Feeding Amount is 0.0001mm</li> <li>• Surface Roughness is 0.02µm</li> </ul>	<b>2 Axis CNC</b> <ul style="list-style-type: none"> <li>• Column Sliding</li> <li>• Two Axes Simultaneous</li> <li>• FANUC CNC Control</li> </ul>	<b>2 Axis CNC</b> <ul style="list-style-type: none"> <li>• PC-Based Conversational SMART Control</li> </ul>
FPG-60120DC•60160DC FPG-60200DC•100160DC FPG-100240DC•100400DC FPG-100480DC•120276DC (Available in Other Sizes)	FSG-4060DC•4080DC FSG-40120DC•5080DC FSG-50120DC•50160DC FSG-6060DC•6080DC FSG-60120DC (Available in Other Sizes)	FMG-1632CNC Series	FPG-V1632DC	FVG-1616•4040DC (Available in Other Sizes)	FGP-608LM	HYDRO-H1224 (Available in Other Sizes)	FSG-H818CNC•H2440CNC FSG-H2460CNC•H2480CNC	SMART-H818II•H1224II SMART-H1640II•H2440II SMART-H2460II•H2480II

## Grinding Machines



Surface and Profile CNC Grinder		Vertical Grinding Center	CNC Slicing Grinder	Fully Automatic Grinding Machine		Semi-Automatic Grinder	Manual Grinder		
				Standard Type	Auto Dressing & Compensation				
<b>3 Axis CNC Series</b> <ul style="list-style-type: none"> <li>• Column Sliding</li> <li>• Capable of Creep Feed</li> <li>• FANUC CNC Control</li> </ul>	<b>3 Axis CNC Series</b> <ul style="list-style-type: none"> <li>• PC-Based Conversation SMART Control</li> </ul>	<b>VGC Series</b> <ul style="list-style-type: none"> <li>• FANUC Control</li> <li>• Automatic Wheel Change</li> </ul>	<ul style="list-style-type: none"> <li>• Simplified SMART PC-Based control</li> <li>• High precision slicing and pitch grinding</li> </ul>	<b>3A (3-Axis) Series</b> <ul style="list-style-type: none"> <li>• Double " V " Turcite-B Saddle Ways</li> </ul>	<b>ADIII (3-Axis) Series</b> <ul style="list-style-type: none"> <li>• Elevation is Driven by Servo Motor</li> <li>• 3 Axes Needle Roller Ways</li> <li>• Touch screen control</li> </ul>	<b>ADIII (3-Axis) Series</b> <ul style="list-style-type: none"> <li>• Elevation is Driven by Servo Motor</li> <li>• Double " V "+Turcite-B Cross Ways</li> <li>• Column Sliding</li> <li>• Touch screen control</li> </ul>	<b>2A (2-Axis) Series</b> <ul style="list-style-type: none"> <li>• X axis driven by Hydraulic System</li> <li>• Z axis with Double " V " Ways and Electric Motor</li> </ul>	<b>M Series</b> <ul style="list-style-type: none"> <li>• Ball Table Ways</li> <li>• Double " V "+Turcite-B on Z axis</li> </ul>	<b>SP Series</b> <ul style="list-style-type: none"> <li>• Ball Table Ways</li> <li>• Double " V "+Turcite-B on Z axis</li> </ul>
FSG-B818CNC•C1224CNC FSG-B2440CNC•B2460CNC FSG-B2480CNC	SMART-B818II•B1224II SMART-B1640II•B2440II SMART-B2460II•B2480II	FVGC-II	SLICE-618i	FSG-3A818•3A1224	FSG-1224ADIII•1632ADIII FSG-1640ADIII	FSG-2040ADIII•2060ADIII FSG-2440ADIII•2460ADS FSG-2480ADIII	FSG-2A618•2A818•2A1224	FSG-618M	612SP•618SP•818SP





## Milling Machines



Double Column VMC		Double Column Five Face VMC	Horizontal Boring and Milling Machines	Machining Centers			
<ul style="list-style-type: none"> <li>X Axis Linear Ways</li> <li>Y/Z Axes Box Ways</li> </ul>	<ul style="list-style-type: none"> <li>X/Y Axes Linear Ways</li> <li>Z Axis Box Way</li> </ul>	<ul style="list-style-type: none"> <li>X/Y Axes Linear Ways &amp; Z axis Box Way</li> <li>Available with 2 Axes Servo Milling Head</li> <li>FANUC/Siemens Control</li> </ul>	<ul style="list-style-type: none"> <li>Bed Type</li> <li>Rotary Table Included</li> <li>W Axis Included</li> </ul>	<b>Vertical Machining Centers</b> <ul style="list-style-type: none"> <li>FANUC, Siemens, Heidenhain Control</li> <li>Linear Way and Box Way</li> </ul>			<b>Column Travel Type</b> <ul style="list-style-type: none"> <li>FANUC Control</li> <li>Turtable</li> </ul>
FVM-3020DC • FVM-3026DC FVM-4020DC • FVM-4026DC FVM-4034DC • FVM-5020DC FVM-5026DC • FVM-5034DC FVM-6026DC • FVM-6034DC	FVM-3016DCL • 4016DCL FVM-3020DCL • 3026DCL FVM-4020DCL • 4026DCL • 4034DCL FVM-5020DCL • 5026DCL • 5034DCL FVM-6026DCL • 6034DCL	FVM-4028VF • 5028VF FVM-6028VF • 4032VF FVM-5032VF • 6032VF	FBB-2220RQ	QP2855 (#50) QP3560 • 3572 (#50) QP4088 (#50)	QP2026 • 33 • 40-L (#40) QP2033 • 40 (#40) QP2443 (#40, #50) QP2440-L (#40) QP2560-L (#40, #50)	QP1620-L (#30, #40)	FTC-1320V (#30)

## Turning Machines



Vertical Turning Lathes	Multi-Function CNC Lathes	Horizontal Turning Machines			
<ul style="list-style-type: none"> <li>Heavy Duty</li> </ul>	<ul style="list-style-type: none"> <li>Flat Bed Lathe</li> <li>Best Combination of Manual, Teaching &amp; CNC Operation</li> <li>FAGOR, FANUC, Siemens Control</li> </ul>	<ul style="list-style-type: none"> <li>Slant Bed Lathe</li> <li>Linear Guide Way</li> <li>FANUC, Siemens Control</li> </ul>	<ul style="list-style-type: none"> <li>Slant Bed Lathe</li> <li>Box Way</li> <li>FANUC, Siemens Control</li> </ul>	<ul style="list-style-type: none"> <li>Multi-Tasking Lathe</li> <li>Y Axis</li> <li>Sub Spindle</li> </ul>	<ul style="list-style-type: none"> <li>Heavy Duty Lathe</li> <li>Spindle Hole Diameter 196/260/320mm</li> </ul>
FVL-1250VTC • 1250VTC+C FVL-1600VTC • 1600VTC+C • 1600VTC+CY FVL-2000VTC • 2000VTC+C FVL-24 • 20 • 12 • 8 Series	FCL-1840 • 60 • 80/2140 • 60 • 80/2540 • 60 • 80 FCL-2660 • 80 • 120/3280 • 120 • 160/4080 • 120 • 160	FCL-120 FCL-140 FCL-200/HT FCL-300/P	FBL-120 FBL-200/L FBL-300 • 360 FBL-300W • 360W	FCL-200MC • 300MC FBL-300MC FNL-250Y/SY • 320Y/SY	FBL-520/MC FBL-530/MC FBL-540/MC