

**FACILITIES/CAPABILITIES**  
**for**  
**PRECISION MANUFACTURING**



**LaVeZZi Precision, Inc.**

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## **HISTORY**

LaVezzi Precision, Inc. was founded in 1908 by the late Edward W. LaVezzi. Although originally engaged in the manufacture of many critical components for the motion picture industry, the company now devotes its resources to the manufacture of components, assemblies and implants for the medical device industry.

The firm was incorporated in the State of Illinois in 1966 as a closed corporation.

The corporate name was changed to LaVezzi Precision, Inc. in June 1983.  
*(Formerly known as LaVezzi Machine Works, Inc.)*

## **OFFICERS**

Al LaVezzi, President  
Doug Kremer, Executive Vice President

## **FINANCIAL DATA**

Information is available from Dunn & Bradstreet, Duns No. 04-791-2209.

## **ISO CERTIFICATION**

LaVezzi Precision has been ISO certified since May 19, 1999. The current certifications are as follows:

- ❖ ISO 13485:2003 received November 11, 2009 from NSF International Strategic Registrations, LTD. The certificate number is 67571-MD2.
- ❖ ISO 9001:2008 certification on November 11, 2009 from NSF International Strategic Registrations, LTD. The certificate number is 67571-IS2.

## **FDA REGISTRATION**

LaVezzi Precision, Inc. is registered with the Food and Drug Administration.  
The FDA registration number is 1422572.

**LAVEZZI PRECISION, INC. IS A SMALL BUSINESS CONCERN.**

## **PRODUCT**

### **CONTRACT MANUFACTURING**

LaVeZZi specializes in the manufacture of medical device components, assemblies and implants that are multi-faceted with tight tolerances. These products include critical components for ventricular assist devices, orthopedic and dental implants, and surgical instrument components.

ISO 13485 and 9001 standards and customer specifications are maintained and rigidly adhered to. Production quantities range from single prototype lots to large production runs. All work is handled on a quotation basis based on drawing and engineering specifications. Design assistance is available.

### **STOCK LINES**

LaVeZZi also produces a line of gages for use with coordinate measuring machines. Used to determine the true position of a tapped hole, TRU-POS<sup>®</sup> Locators are available in a great variety of sizes. Special sizes and configurations can also be made to customer specifications.

### **THE MANUFACTURING FACILITY**

The LaVeZZi facility is located in a business park in Glendale Heights, Illinois, a suburb 26 miles west of downtown Chicago. It is conveniently located near major expressways and is only 25 minutes from O'Hare International Airport.

The 50,000 square foot facility, built to LaVeZZi specifications in 1992, incorporates all offices, stock and production facilities in one location. The plant is fully protected against fire and theft and is completely air conditioned and environmentally controlled for product quality control.

## COMPUTER CONTROLLED PRODUCTION FACILITIES

### SOFTWARE

Surfcam® Simultaneous 5-Axis CAM Programming Software  
FaciliWorks® Computerized Facility & Equipment Maintenance Management Software  
AutoCAD® with Autodesk Mechanical Desktop CAD Programming Software  
SolidWorks® 3D CAD Design Software  
OmegaCube® fully integrated enterprise business system  
Part Maker® Programming Software for Swiss Lathes  
Part Maker® Programming Software for with PowerMill

### TURNING

4 Hardinge CHNC II+ Super Precision Chucker & Bar Machine (General Numeric 10TF Control)  
1 Hardinge Quest GT27SP Super Precision Gang Tool Chucker with 32i Control  
1 Hardinge 27 Super Precision Turning Center with 32i Control  
1 Hardinge Conquest GT Super Precision Gang Tool Chucker (Fanuc 0-TC Control)  
7 Hardinge Quest GT27SP Super Precision Gang Tool Chucker with C Axis (Fanuc 21i-TB Control)  
1 Mori-Seiki SL-25SY/1000 CNC Lathe (Fanuc 16T Control)  
1 Mori-Seiki SL-25Y/500 CNC Lathe (Fanuc 16T Control)  
1 Hardinge T425SP CNC Lathe with C-Axis & Live Tooling (Fanuc 18-T Control)  
1 Hardinge T425SP CNC Lathe with Live Tooling (Fanuc 18-T Control)  
1 Hardinge RS 51 Lathe with C-Axis and Live Tooling  
3 Hardinge T42SP MSY Lathe (Fanuc 31i Control)  
1 Hardinge T65SP MSY Lathe (Fanuc 31i Control)

### SWISS CNC LATHES

7 Star SR-20 Swiss Type Automatic Lathes (Fanuc 16TT NC Control)  
8 Star SV-20 Swiss Type Automatic Lathes (Fanuc 16T NC Control)

### GRINDING

1 Rollomatic CNC620XS 8-Axis Tool Grinding Center  
2 Studer S35 Universal Cylindrical Grinders  
1 Studer S20CNC Universal Cylindrical Grinder with Fanuc 16T Control  
1 Okamoto IGM-2M Chucking ID Grinder  
1 Drake 6" x 36" CNC Thread Grinder with Fanuc Oi-MC Control

### MILLING

11 Willemin W-408MT 5-Axis Bar Fed Machining Center with Automatic Back Working Device  
2 Willemin W-508MT 5-Axis Bar Fed Machining Center with Automatic Back Working Device  
2 Boston Digital BD 18 Vertical 4-Axis Milling Machine with .5 Micron Glass Scales and BDC 3200 Control  
1 Kitamura Zero Vertical Drilling and Tapping Center with Rotary Pallet  
1 Kitamura High Precision Vertical Machining Center Model MYCenter-2XiFH with Rotary Pallet  
1 Kitamura High Precision Vertical Machining Center Model MYCenter-1XiF

## SECONDARY OPERATION EQUIPMENT

### LATHES

1	TBF Hardinge High Speed Precision Lathe
1	Dunhamatic Variable Speed Lathe
1	Twister Variable Speed Lathe

### GRINDING

1	Brown & Sharpe Cylindrical Grinders (3" x 18")
3	3" x 12" Cylindrical Grinding Machines
1	Paragon Model RC12 Centerless Grinder
1	Delta "Toolmaker" Surface Grinder
1	No. 24 Gallmeyer & Livingston Hydraulic Surface Grinder with Sony Digital Readout
1	No. 260 Gallmeyer & Livingston Hydraulic Surface Grinder
1	Boyar & Schultz 6" x 12" Surface Grinder
1	Boyar & Schultz 6" x 12" Hydraulic Surface Grinder

### DRILLING

4	TriboMAM Super Precision Drilling Units for CNC Lathes
1	4-Spindle Clausing Drill Press
3	1-Spindle Atlas Drill Press
1	1-Spindle Wilton Drill Press

### LAPPING

1	Lapmaster Model 15 Precision Diamond Processing Machine
1	Excello Center Lapping Machine

### BROACHING

1	American Hydraulic Broaching Machine, 2-Ton capacity
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### HONING

1	Sunnen Model MBB-1600 Honing Machine
1	Sunnen Model MBB-5610 Honing Machines

### PRESSES

1	No. 12 Famco Kick Press
3	Famco Arbor Presses

### POLISHING

4	Hi-speed Twister Speed Lathes with a Hydrotron Wet Filter Dust Collection System and Integral 6x and 10x Mantis Visual Inspection Systems
2	Hardinge DV-59 Variable Speed Lathes with KEI Dry Dust Collection System
12	Workstations equipped with Minimo High Speed Rotary and Reciprocating Heads and Integral 6x and 10x Mantis Visual Inspection Systems
1	Complete Assortment of Diamond Abrasive Compounds as well as Standard Abrasive Products for Polishing
2	Pedestal Mounted Dual Polishing/Buffering Heads

## FINISHING

Esma Ultrasonic Passivation Line  
Esma 50 AMP Electropolishing System  
Esma Six Tank Cleaning and Drying System  
Profile Model 150 Extrude Hone Machine  
Minimo High Speed Rotary Tools  
EFD Ultra 1400 Series Liquid (Adhesive and Paint) Dispensing Unit  
125 Amp Electropolishing Tank, 1-Gallon Capacity  
Guyson Automatic RXS900 Abrasive Finishing System  
(2) GAMM 36" x 24" Abrasive Blast Cabinets  
Gamm Automatic Abrasive Finishing System  
Krome King Hard Chrome Plating System  
Almco Model 25F Spindle Type Deburring & Finishing Machine  
Du-Lite Black Oxide Finishing Equipment  
Tumbling Equipment  
(2) Raytech Model AV-40SS Vibratory Deburring Machine  
Buffing & Polishing Equipment  
Giant Centrifugal Barrel Tumbling Machine  
Esma Ultrasonic Cleaning Station, 9-Gallon Capacity  
Ultrasonik Ultrasonic Cleaning Station, 2.75-Gallon Capacity  
Misc. Cleaning Facilities

## OTHER EQUIPMENT

Trumpf VectorMark Laser Marking System  
Rollomatic FRP-200 Trueing and Dressing Machine for Diamond and CBN Wheels  
Automatic 2" Dry Belt Grinder  
60" Wet or Dry Belt Grinder  
Belt & Disc Sanding Machine  
Schmidt Hi-Duty Marking Machine  
Lectrotech Marking Equipment  
Marvel High Speed Saw  
Christensen Select-O-Point Drill Grinder  
Du-More Drill Sharpener  
Black & Decker Drill Sharpeners  
Grieve-Hendry Industrial Ovens (2)  
Phillips Automatic Parts Washer with conveyor  
Cuttermaster End-Mill Sharpener  
Various Pre-set tooling gages for numerical control machining

## TOOL ROOM FACILITIES

Complete facilities for tools, dies, molds, jigs, fixtures, etc.

1	Model BR-J Bridgeport Milling Machine with Trac Digital Readout
1	No. 260 8" x 18" Grand Rapids Surface Grinder
1	17" Cincinnati Hydrashift Tool Room Lathe
2	Hardinge Super Precision Tool Room Lathes
1	Hybco Relief Grinder on Beta U-20 Universal Grinder
1	Model WD10 Hammond 10" Carbide Tool Grinder
1	Tool Grinder
1	6730 Johannsson Box Column Drilling Machine
1	Atlas Drill Press
1	Delta Band Saw
1	Arbor Press
1	DoAll 20" Throat Band Saw with welder
1	Kalamazoo High Speed Cold Saw
1	Supermax Model J Milling Machine with ANILAM Digital Readout
1	Chevalier FSG-818AD Automatic Surface Grinder

## QUALITY CONTROL FACILITIES

LaVeZZi's inspection facilities are located in a temperature-controlled environment maintained at a constant ambient temperature of 68° Fahrenheit / 20° Celsius and relative humidity 60% maximum.

2	Zeiss Micura CMM with Vast XT Head and Scanning Capability and Calypso Software
1	Zeiss Contura G2 CMM with Vast XT Head and Scanning Capability and Calypso Software
2	Zeiss Contura G2 CMM with RDS/Vast XXT Head and Scanning Capability and Calypso Software
1	Zeiss Surfcom 20005D for Contour and Roughness Measuring
1	Zeiss Eclipse 550 CMM with RDS Probing System and Calypso Software
1	Thermo Scientific Niton XL3t 900S GOLDD Portable X-ray Fluorescence (XRF) Analyzer
1	OGP Q300 Smartscope with TTL Laser, Vision and Scanning Probe Capabilities
5	Leica EZ4 200M Stereo Microscopes
2	Hawk 3-9 Axis Non-Contact Measuring System
1	Lynx Stereo Zoom Dynascope with Ring Light and Substage Illumination (1-40X)
1	Hawkeye Borescope & Video System
2	Brown & Sharpe Microval CMM
1	Zeiss Surfcom 130A Surface Texture Measuring Instrument
1	Mahr Federal Surface Finish Indicator with Attachments
1	Surfindicator (Surface Finish Analyzer)
1	Fellows No. 8 Microdex with Data Recording Capability
1	OGP Model QL-30 High Capacity Contour Projector with Geometric Measuring Processor
1	OGP Model OQ-20S OGP Contour Projector with 2 motorized Axis and Digital Readout
2	FC-14 Jones & Lamson Pedestal Contour Projector
2	EPIC-14 Jones & Lamson Pedestal Contour Projector with Face Projection and Acu-Rite III Digital Readout
1	Workshop Dynascope Ultra with 8" x 6" Precision Stage and Quadracheck Metrology System
1	Ram Optical High Resolution Inspection Camera & Monitor with Crosshair Generator and LCD Micrometers
1	TC-10 Jones & Lamson Bench Optical Comparator
1	Bausch & Lomb Stereozoom Microscope
2	Mahr Millitron 12001C Electronic Comparator
1	Brown & Sharpe Model 1025 Amplifier and Stand
1	BX-C1 Johnson External Thread Gaging System
1	PC-10 Jones & Lamson Pedestal Optical Comparator
2	Jones & Lamson Bench Optical Comparators
1	710 Sheffield Accutron Comparator with Electro-Jet Pick-up
7	Swedish Gage Co. CEJ Mikrokators
1	Mitutoyo High Accuracy Digital Micrometer
60	Indicating Micrometers
10	Sets Gage Blocks (Croblox)
3	Sets Gage Blocks (Carbide)
2	Sheffield Universal Precisionaire Air Gage
1	Precision Gage Co. Vari-Roll Gear Tester
1	Shere Gear Testing Fixture
1	Illinois Tool Works Gear Tester
1	Gleason Gear Testing Machine
1	Rockwell Hardness Tester
1	Rockwell Hardness Tester (Superficial)
1	IRD Model 652 Vibration Analyzer
5	Bench Centers with Indicators
1	30" x 48" Granite Precision Surface Plate
5	12" x 18" Granite Precision Surface Plate
1	Maxum Indicator with Digital Output
4	CDI Electronic Digital Indicator, 4" Range, .00005" Resolution
1	Mitituyo Height Master (0-12")
3	Mitituyo Borematic Series 568 Bore Gage
1	Monochromatic Light Box and Optical Flats
40	Mantis System 510 Optical Inspection Systems
8	Western Electro-Air Comparators (4 Digital)
6	Universal Concentricity Gage with .00005" indicators
1	SPI 31-84Z-B Amplifier

Miscellaneous plug, ring, and thread gages, dial indicators, snap gages, micrometers, microscopes, etc.

## STATISTICAL PROCESS CONTROL

QC-Calc Data Collection and Analysis Software System  
Statgraphics Centurion Statistical Analysis Software

## GAGE CALIBRATION MANAGEMENT SOFTWARE

GageTrack, for the effective control of inspection, measuring and test equipment.