



Etching

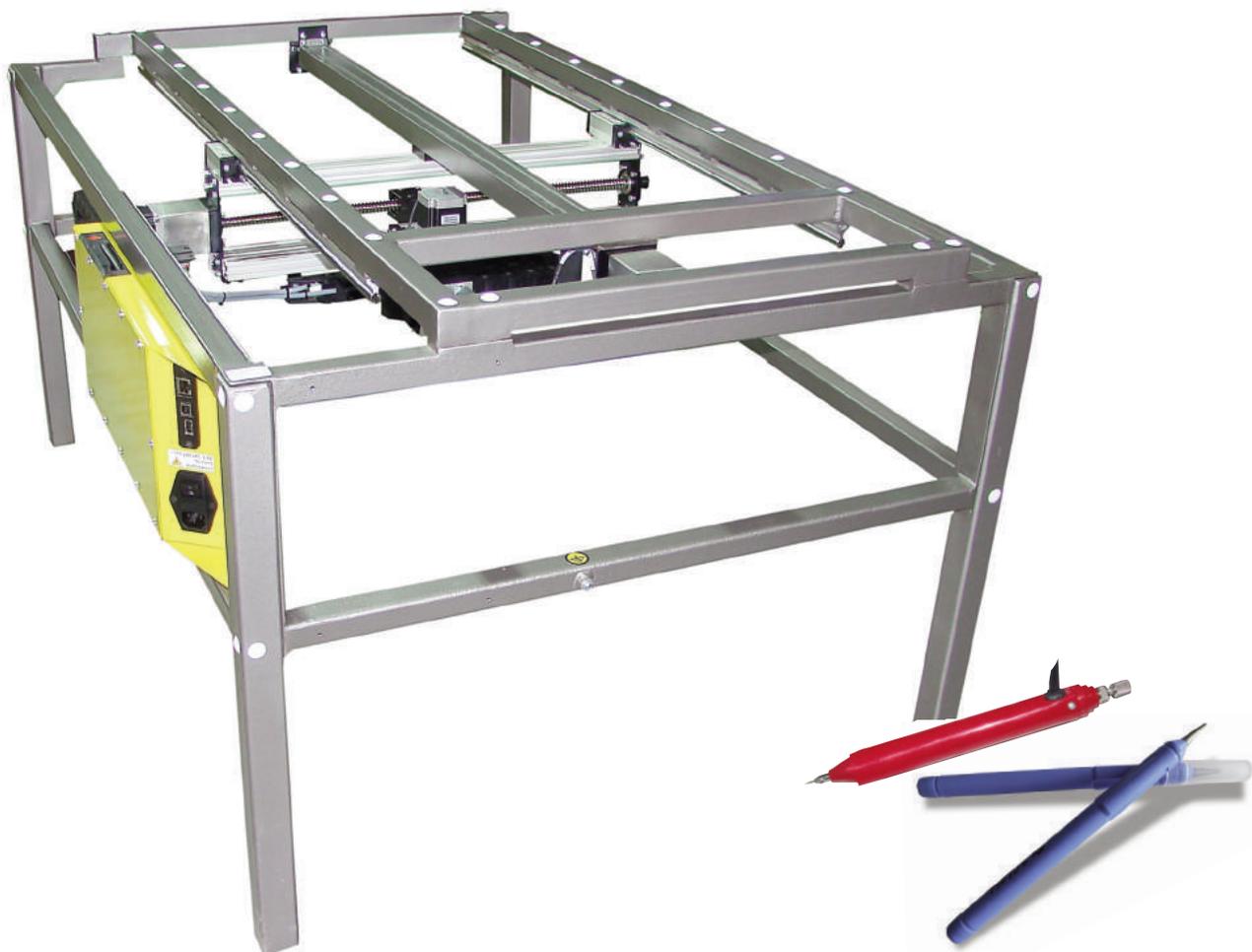
Pneumatic Abrasive Guns 12.2

Etching Tools 12.3

Impact Etching Machines 12.4

Derusha Etching Services 12.7

Laser Etching 12.8





Pneumatic Abrasive Guns

AECR

AECR Remote Feed Air Eraser with Quart Cup offers greater freedom of movement through use of a larger abrasive compound container which feeds abrasive by hose to the AECR Eraser. The large container allows the operator to work longer between refills.

WARNING:

Read instructions for proper care in handling and operation. Use in Well Ventilated Area to remove or trap dust. AE & AEX Compounds for External use Only! Paasche abrasives are listed as nuisance dusts. Consult the product label and Material Safety Data Sheet supplied for the material being sprayed. Secure air and material hoses wrench tight for safety and to prevent leaks. **Maximum Pressure 50 PSI**



AECR

Optional Regulator shown

Aluminum Oxide in stock from 100 grit to 220 grit. See abrasive section on page 6.2.

DS Item #	Description
12013303	AECR
12113367	R-75 Regulator

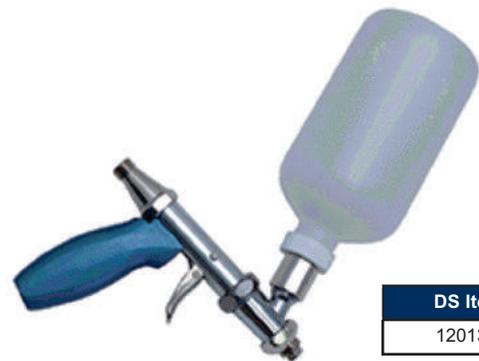
SECTION 12. ETCHING

LAC #3 GUN

The LAC Abrasive Gun has almost unlimited uses as an etching tool for directory panels, directional signs and name plates; for applying designs to plate glass and glassware, colored and transparent plastics, stone, silver and other metals.

WARNING:

Read instructions for proper care in handling and operation. Always wear a Respirator and Goggles when using the LAC#3 Abrasive Gun. Use in Well Ventilated Area to remove dust. Always read and follow, Cautions and Warnings on materials being sprayed. **Maximum Pressure 50 PSI**



DS Item #
12013301

DS TECH TIP

SAFETY

Consult our Safety Equipment Section (21) for the proper respiratory protection.



Etching Tools

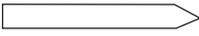
DREMEL 290-1 (IMPACT)

Features:

- Stroke adjustment dial regulates engraving depth from fine lines to deep grooves.
- Replaceable carbide point lets you engrave on most surfaces.
- Optional 9929 diamond point (not included) for heavy-duty use on hard surfaces.
- Letter/Number template helps etch words and numbers.
- Soft grip adds extra comfort and control.
- Light and compact design provides comfortable use for precision engraving performance.



ACCESSORIES

 Carbide Point Model 9924 (normal applications)	 Diamond Point Model 9929 (for continuous use)
--------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------

DS Item #	Description
12113407	Dremel 290-1
12113354	Carbide Point 9924
12113355	Diamond Point 9929

300 SERIES ROTARY TOOLS

The Dremel 300 Series rotary tool offers the precision and control required to complete a wide range of projects—from fine art to home repair. Its variable speed control allows you to set the speed of the tool to match a particular accessory or the task at hand.



Diamond Point

DS Item #	Description
<i>Call us</i>	Dremel 300 Series
12113351	7103
12113352	7105
12113403	7120
12113359	7122
12113360	7123
12113404	7134
12113353	7144

PNEUMATIC LGS 30

Engraving pen with tungsten carbide stylus points for engraving metals, glass, plastics and stone.



DS Item #	Description
14013389	LGS 30
14013390	Fine Tip
14013391	Medium Tip
14013392	Coarse Tip

PENCIL STYLUS

Diamond Stone Etching Pencil Stylus.



DS Item #	Description
14013676	Stylus Pencil

ELECTRO STYLUS

A quiet, smooth writing, etching and engraving instrument. 7" long, 3/4" diameter. Easy to handle pen-like shape. Operates on 105-120V, 60 cycle AC.



DS Item #	Description
12113408	Electro Stylus
12113455	Tip



Impact Etching Machines

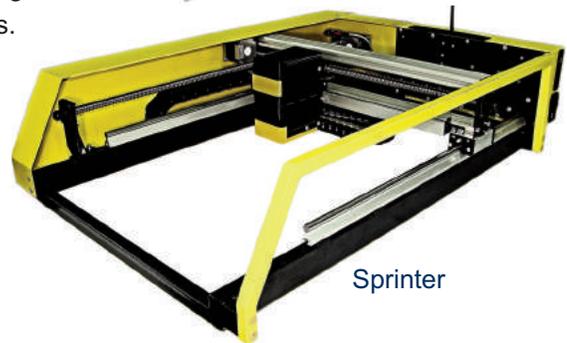
IMPACT ETCHING

Impact Etching is a revolutionary technology, designed for use in Monument Industry. Time-tested and reliable, it is used by hundreds of customers world-wide. Image is created by the diamond-tipped needle hitting the stone. Machine's controller changes the strength and frequency of hits to achieve required characteristics of the picture. Etching head is driven by high-precision German-manufactured 3D linear drive. Gap sensor automatically maintains optimal distance between the needle and stone, allowing processing of uneven surfaces. In the end, you get the image that is as close as it gets to the original, and has the quality of etching performed by artist, for a fraction of the cost.

Faster than previous generation



Sprinter max



Sprinter

Features:

- Automatic gap-tracking technology eliminates stone leveling.
- Does not require cooling or other environmental limitations.
- Two models available: Sprinter being portable.
- Simple in design and operation.
- Easy to use and even easier than previous generation.
- Does not require attended operation.
- Connects easily to your laptop or desktop computer.
- Time-tested and reliable.
- Etches a wide range of images (including portraits).

Financing Available

DS Item #	Model	Description	Image Area
25014385	Sprinter	Portable compact model, designed to be put on the top of the stone. Can be lifted by a single person.	15.75" x 24.4"
25014386	Sprinter Max	Large Floor model	27.55" x 55.11"
25014301		APC 700 power back up pro (highly recommended)	
Accessories & Replacement Parts			
25014200		Monucart for etching with high weight capacity, lock casters and self leveling feet	24" x 30"
25014365		Replacement etching tip for Sprinter and Sprinter Max models	
25014363		Replacement etching tip for SX and CP models	
25014339		Replacement Remote + USB Cable	

Other replacement parts available.

Monucart



APC 700



Impact Etching Machines

Laser Engraver	Granite Impact Etching Machine
Can engrave wood, leather, plastic	Can only engrave stone, glass, metal or other hard materials. After all, it is specifically designed for monument builders.
Burns very thin upper layer of the stone	Physically hits stone with diamond "needle" creating images that are as close as it gets to manual etching.
Works best on perfectly black stone. Yields substandard results on non-black stone with imperfections.	Can be used on any stone of any colors, regardless of imperfections that it might have.
Laser machines are very complex and have many subsystems: electronic, mechanical, optical, cooling, fumes removal.	Has only 2 subsystems: electronic and mechanical ones. Less components means higher reliability.
Requires stone leveling procedure. Stone has to be perfectly flat and level against the machine's plane.	Stone does not have to be perfectly flat or level. Machine has the tracking head that follows the surface of the stone, set-up time is minimal.
Requires manual focusing and/or gap setting to ensure proper distance between the laser tube and stone.	Has automatic gap setting mechanism.
Has to be used in lab-like environment with stable temperature. Changes to temperature can cause gas leaks from laser tube and significantly reduce tube life. Output of laser tubes changes with ambient temperature and depends on proper cooling.	Designed for your workshop AKA real world. It just works.
High price for high-end models. Questionable reliability for low-end models.	Price that every monument shop can afford. Pays for itself in a matter of months. Assembled from German made linear drives. Rugged industrial-grade welded frame.

DS TECH TIP

Derusha Supply highly recommends the use of an APC Battery Backup unit for protection of your equipment and computer systems. This safeguards your equipment from damaging surges and spikes that can affect quality performance of your machinery.



Impact Etching Machines

TESTIMONIALS FOR IMPACT ETCHER

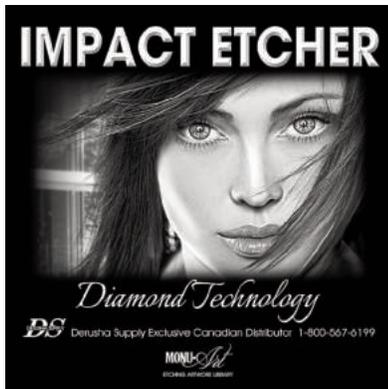
Granit J. McCutcheon, Stanstead, Quebec

We have purchased an impact etching machine after we saw it in action at Derusha Supply. By that time, we already had an expensive laser machine that was used in our day to day operations of etching granite monuments. While laser machine would ultimately do the job, we were attracted to the impact etching machine because of its simple set-up and configuration... As far as the quality of etchings produced, we believe that our impact etchings are superior in appearance to laser etchings, they are brighter and deeper. Our machine has been working great, with outstanding on-site support provided by Derusha.

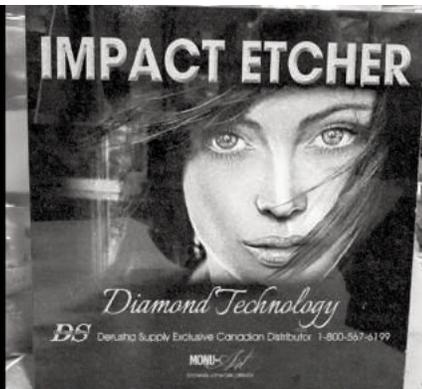
Fabhaven, Toronto, Ontario

Fabhaven is a high-volume monument shop, producing hundreds of monuments and urns per month. We owned high-end laser machine for years, and it seemed to work fine, until we saw Granite Impact Etching machines. The quality and brightness of etchings created by those machines is way better than laser, and this verdict does not come from us, but from our customers. They like portraits made with the diamond etcher more than the etchings created with laser. And, the machines are so easy to use! We unpacked the machine, quickly went through the manual, and were up and running in half a day. By the time our vendor arrived the next day to train us, we had already created many high quality etchings, just after reading the manual, so the training didn't take too long to complete. With our new impact etching machine, you place it on top of any monument, position the home base, begin the image and off you go! No need to warm up the laser tube, nor do multiple tests with different DPIs and... simply put, it just works! Now we do all of our portraits, landscape and overall etchings with our new machine, and keep our laser to only high-volume, low-complexity jobs.

EXAMPLE OF AN IMPACT ETCHING WORK FROM OUR IN-HOUSE DESIGNERS



Computer Rendering



Etched Black Granite

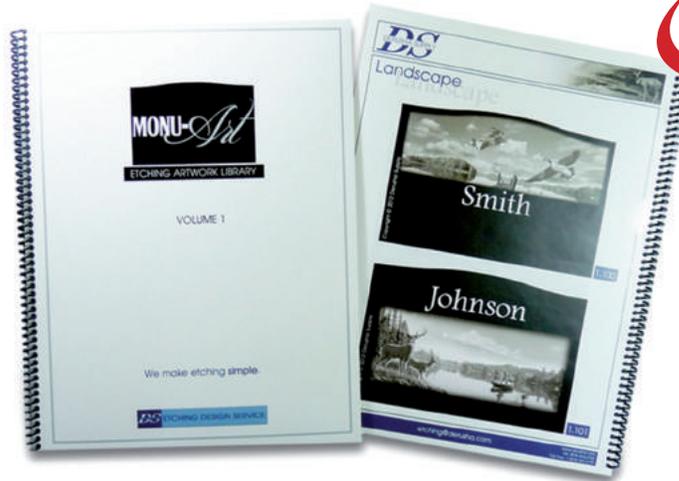


Derusha Etching Services

EVERYTHING YOU NEED TO GET STARTED

Monu-Art Image Catalogue, In House Graphic Design Team and Remote Technical Services.

- Monu-Art Image Catalogue
- Your choice of 50 **ready to etch** monument images
- Includes : Landscapes, Religious, Animals and Elements



**Volume 2
NOW AVAILABLE**

**WE MAKE
ETCHING SIMPLE**

SECTION 12. ETCHING

DS Design Service

You do not have to be a professional in Graphic Design or Computer Technology. Our team can provide you with the Ready to Etch designs, such as photo quality portraits, detailed landscapes, all you need to satisfy your customers' ongoing demands. You can choose from our stock images and profit from our in-house designers that will help create custom images to satisfy your customer needs.



DS Impact Etching Technical Package

UNLIMITED YEARLY REMOTE SUPPORT

This convenient and exclusive Derusha Supply service will help you with the following:

- Telephone technical services
- Remote computer access
- Technical Support with 'EControl' software
- Expert advice to help you achieve the best possible results with your impact etcher
- Assistance with replacement of diamond-tipped needles
- How to prepare a monument for the most effective and economical etching layout design
- Helpful and courteous service

**20%
OFF
GRAPHIC
DESIGN**
with purchase of
Yearly Remote
Support



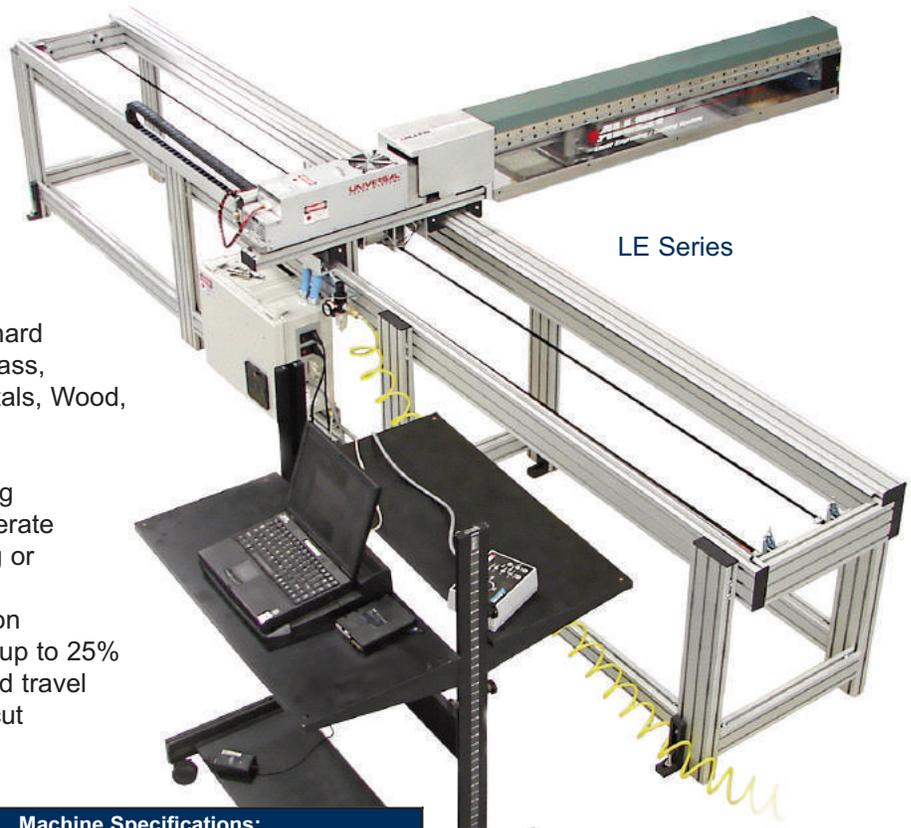
Laser Etching

ALLEN DATAGRAPH LE SERIES LASER

Created to meet the image production needs of the Monument, Signmaking and Graphic Arts industries.

Allen Datagraph's LE SERIES LASER in an innovative large format laser automation system for imaging hard surface materials: Granite, Marble, Glass, Mirrors, Acrylics, Brass, Anodized Metals, Wood, Solid-Surface materials and more.

Easily convert image files into stunning laser-etched graphics. System will operate in either raster scan mode for imaging or vector mode for cutting applications. Allen's exclusive image/cut optimization algorithm reduces production time by up to 25% through management of the laser head travel and firing to only the required image/cut areas only.



SECTION 12. ETCHING

Laser Etcher	Machine Specifications:			
Model Number	4800	6000	9600	14400
X Engraving Range	48"	60"	96"	144"
Y Engraving Range	48"			
Engraving Speed	3 Sq. In./ Minute (Non-optimized*)			
Resolution	Selectable- 150, 200, 300" dpi			
Dot size	Adjustable to .003" Min.			
Laser Class	Class IV			
Wave Length	10.6um			
Power Requirement	112/24 VAC 48/62 HZ 13 AMP or 218/242 VAC 48/62 HZ 6.5 AMP			
Cooling	Air			
Cutting Gas Usage	Up to 2 cfm			
Operational Temp.	10 Deg. c to 35 deg. c			
Relative Humidity	5% to 95% Non Condensing			
Weight				
Height	Varies			
Width	96"			
Length	72"	84"	120"	168"
Microprocessor	Intel Risc 80960i			
Input Format	Tiff, jpeg, bmp, psd, eps, and others			
Interface	RS-232 Serial Port			
Ram	2 mb (Expandable to 8 mb)			

*Cut speed optimization: Allen's exclusive cut speed optimization process speeds engraving by eliminating wasted scanning in areas not requiring laser pulses. Most images are completed in 25% of the time required by non-optimized engravers