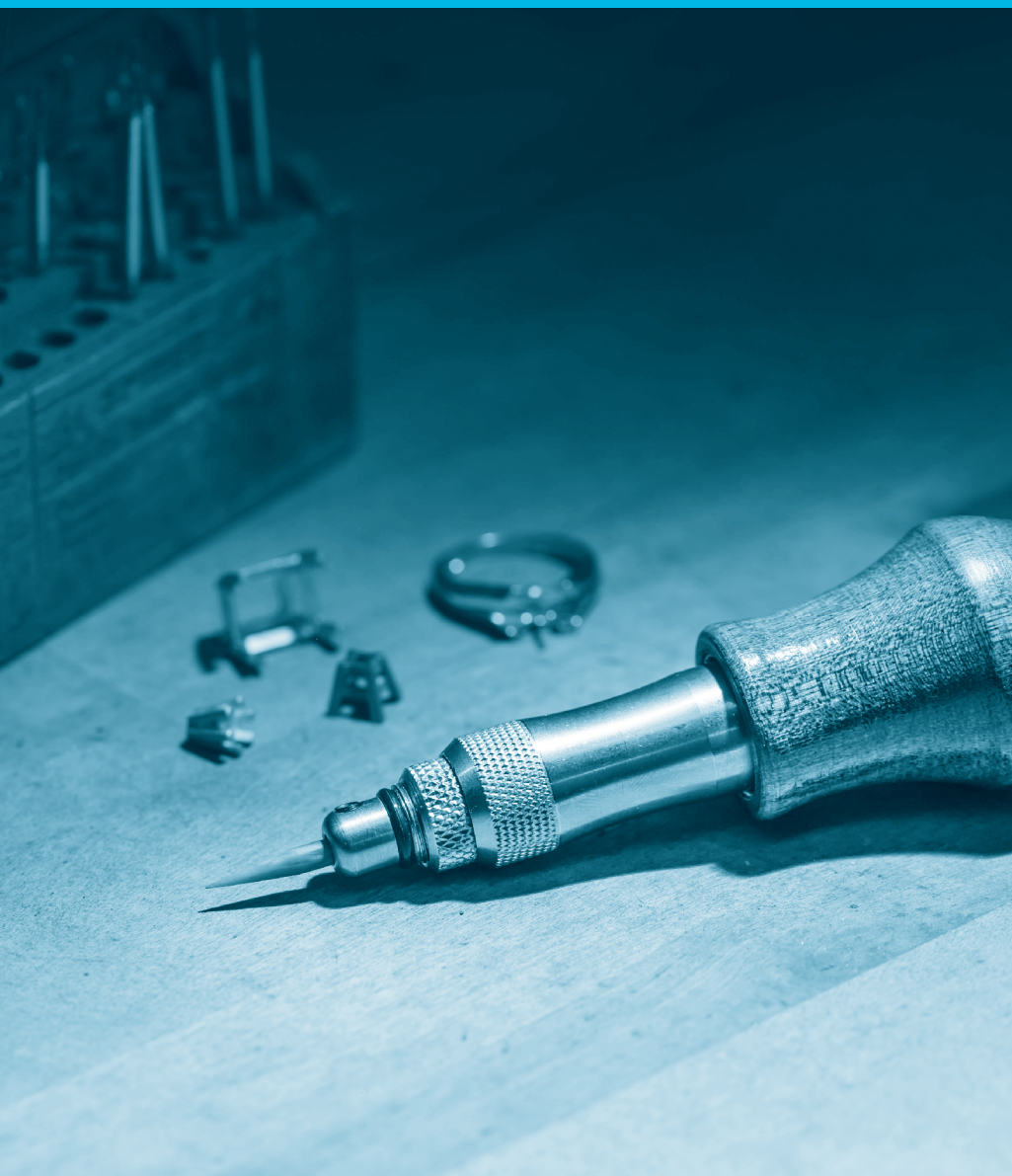




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SWISS

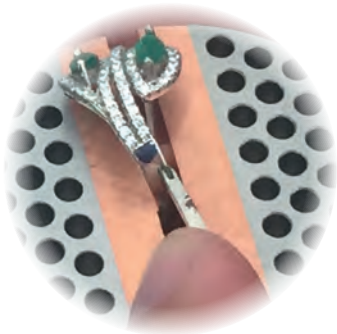
Pneumatic systems and optical tools



APPLICATION NOTE



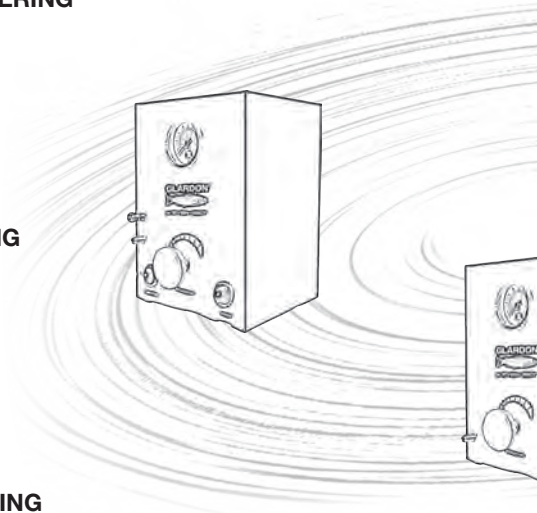
HAMMERING



MILLGRAINING



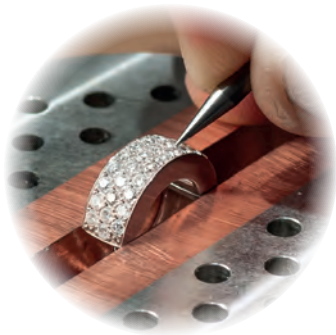
**PREPOLISHING
SURFACES**



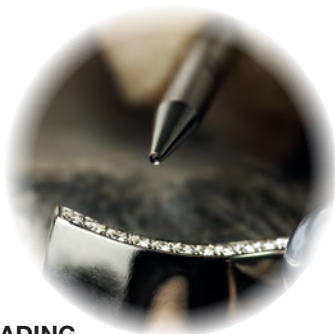
FINISHING



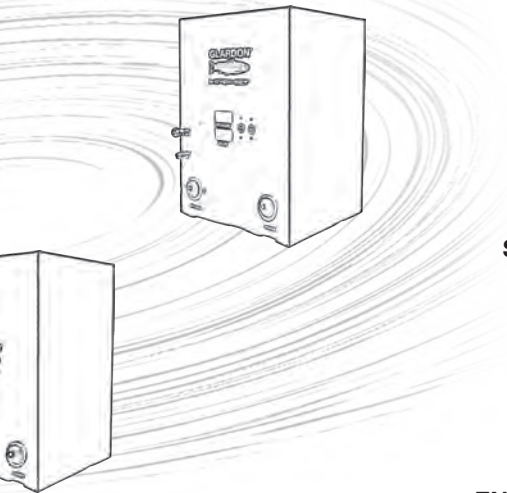
FINISHING



BEADING



BEADING



ENGRAVING



















STONE SETTING



ENGRAVING





Technical features		 EnSet® Plus	 EnSet® Original
RANGE OF APPLICATIONS	Beading, engraving, finishing, hammering, sculpting and metal inlay, stone setting, millgrain and texturing		
AIR CONSUMPTION	<ul style="list-style-type: none"> • No air use during standby mode • Minimal use while working 		
AUTO-PURGING FILTER	<ul style="list-style-type: none"> • Protection against fluids, such as water or oil contamination • No need to clean manually 		
FOOT CONTROL	<ul style="list-style-type: none"> • Enset® electronic heavy duty foot pedal • Precise control on air pulses 		
DESKTOP UNIT	Controls pressure adjustment and power delivery		
FREQUENCY	Working from a single hit to an adjustable frequency from 60 to 3.000 hits/min		
DUAL OPERATION MODE	<ul style="list-style-type: none"> • Dual operation mode • The user can adjust impacts per minute on the front panel and the foot control acts as a pressure regulator 		—
DIGITAL DISPLAY	<ul style="list-style-type: none"> • Pressure • Pulse 		—
OTHER ARGUMENTS	<ul style="list-style-type: none"> • Noise • Size • Price • Maintenance 		



**EnSet®
Compact**

Advantages / Benefits

	<ul style="list-style-type: none"> • Easy to use • More versatile, thanks to a unique handpiece adapting to all applications (including finishing, hammering or inlaying)
	<ul style="list-style-type: none"> • High efficiency and performances by using compressed-air and electricity • Very low energy consumption
—	<ul style="list-style-type: none"> • Automatic purging (no manual operated filter) • Reliable solution
	<ul style="list-style-type: none"> • Adjustable, intuitive and controllable • Adjustment of pulse per minutes • As pulse is controlled on pedal operation focuses simply on the workpiece
	<ul style="list-style-type: none"> • Easy to operate
	<ul style="list-style-type: none"> • Precision and efficiency • Working from a single hit, is perfect for hammering and beading • Single hit and low speed add a lot of control, prevent damages on delicate gemstones • Other available systems work constantly too fast, causing damage
—	<ul style="list-style-type: none"> • Perfect for delicate engraving, bright cut like « filet » and smooth start • 2 different ways to operate the equipment • Full control of the impact strength
—	<ul style="list-style-type: none"> • Precisely view pressure and pulse parameter
	<ul style="list-style-type: none"> • Less noisy, it causes fewer disturbances to the operator • Compact size to create more space on the workbench • More affordable than competitor's products • Very competitive • Long life • Low maintenance



Sharpening solutions: EnSharp® & EnSharp® VersaFixture

Advantages / Benefits

Precision sharpener for gravers, cutting tips and tools made of **steel** and **carbide**. Like Glardon® LOM-HSS and Glardon® LOM-C

Easy to reproduce graver geometries, thanks to its accurate angle fixture

Give a «mirror-polish» to Glardon® gravers, to obtain brighter cuts

An essential tool to work with carbide gravers, since those are hard to sharpen

Glardon® gravers sharpened on EnSharp® last longer than traditional sharpened ones

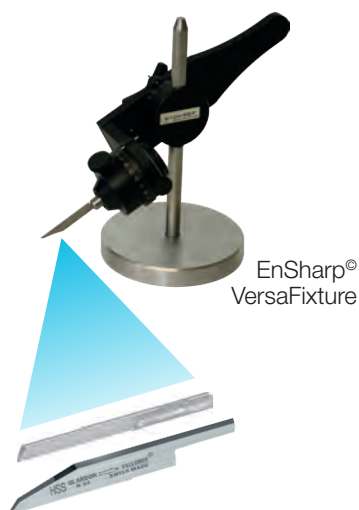
Its speed adjustment is perfect to save time when drastically changing geometry on a graver

Used together, EnSharp® and EnSharp® VersaFixture make possible an efficient and precise sharpening

EnSharp® VersaFixture is a precise graduated fixture, to hold your gravers, ceramic polishers or tools during shaping and sharpening



EnSharp®



EnSharp®
VersaFixture



EnVise® for setters & jewellers

Advantages / Benefits	Setter's EnVise®	Jeweller's EnVise®
High precision stainless steel solution, designed for work such as engraving and stone setting	✓	✓
Combination of stainless steel and natural wood base allows maintaining grip ; the perfect balance between solid performance and smoothness	✓	✓
Holds your work securely. Stability and robustness of EnVise® provide maximum control whilst you work	✓	✓
Exchangeable copper jaws to protect jewellery pieces	✓	✓
High quality rotation system, the upper mechanism rotates 360 degrees smoothly, while dampening vibration	✓	✓
Perfect height to set gems under a microscope	✓	—
Double the weight on average vises with the same height to take better impact of pneumatic tools	✓	—
An ideal size to hold bigger elements such as bracelets, knives or gun parts	—	✓
Does not tilt when using heavy fixtures mounted onto it	✓	✓



Setter's EnVise®



Jeweller's EnVise®



Orbital Ring Fixture[®]

Advantages / Benefits

Specially designed holder to work on jewellery rings in almost limitless positions and angles

Solid system to hold rings and work onto external surface

Allows you to hold rings with adequate clearance

Ease engraving and stone setting processes

Brass collets hold perfectly all ring sizes and require less pressure than plastic ones

Less risk of break or damage thin weak or fragile rings

Avoids need of using shellac to hold rings

Perfect for time saving

No need to spend time cleaning rings from shellac

Compatible with many ball vises





Inside Ring Engraving Fixture

Advantages / Benefits

Specially designed tool to hold your jewellery rings easily

Ideal to engrave or set stones onto inside ring surface

3 adjustment screws with a flexible head make it is easy to hold any ring

6 threaded holes allow any ring configuration including rings set with stones

The wheel holding the ring rotates 360 degrees to allow full access to the inside of the ring

Machined from solid brass to help minimize vibration

Protects the ring from damage





Technical features



Leica A60F

APPLICATIONS	For jewellers, stone setters and engravers <ul style="list-style-type: none"> • Engraving • Stone setting 	The Leica A60F stereomicroscope offers superior optics, thanks to a patented technology called FusionOptics™ which makes this product unique
ZOOM RANGE	It's zoom range allows user to work in a visible area	5x – 30x
WORKING DISTANCE	The large working distance provides sufficient space to easily use tools under the stereomicroscope	<ul style="list-style-type: none"> • 122 mm without Ring Light • 100 mm with Ring Light
EYEPIECE	<ul style="list-style-type: none"> • Dioptic correction • Suitable for eyeglass wearers 	10x
SCOPE CHARACTERISTICS	The large field of observation gives user an excellent overview – a prerequisite for accurately positioning gems or performing precision engraving by hand	<ul style="list-style-type: none"> • FusionOptics™ technology • Object field : 7.7 - 46 mm • Depth of field : 122 mm • Adjustable interpupilar distance : 52 - 76 mm
VIEWING ANGLE		38 degrees
MAGNIFIER LENS	Achromatic Objective Lens	x1 <ul style="list-style-type: none"> • Zoom factor : 6:1 • Zoom range : 5x - 30x
LIGHT	LED lighting offers two types of illumination for : <ul style="list-style-type: none"> • Matt surfaces • Reflective surfaces 	LED Ring Light with removal diffuser
INCLUDED		<ul style="list-style-type: none"> • Flex Arm Stand • LED Ring Light with removal diffuser



Glardon® SZM65

Advantages / Benefits

<p>The Glardon® SZM65 stereomicroscope puts together a very precise and clear lens stereomicroscope at an affordable price to work in small surfaces</p>	<p>Optimally suited to the requirements of micro-manufacturing, stereomicroscope systems can effectively increase productivity since working with a stereomicroscope is significantly faster and more convenient</p> <ul style="list-style-type: none"> • Intuitive stereomicroscope system • Easy to use • High productivity • Low costs • Ergonomic design • Comfort and convenience during work lead to a higher quality end product
7x – 45x	<p>The minimum magnification of 7x involves the systematic use of a lens to change the working range of the stereomicroscope. To improve the working length, the use of a lens is required</p>
140 mm	<ul style="list-style-type: none"> • Optimum access to the workpiece • Easy to operate tools
10x	<p>Dioptric adjustment according to the view of the user ; then it is possible for the user to employ it without having to wear glasses</p>
<ul style="list-style-type: none"> • High precision focusing system • Object field : 4.4 – 28.6 mm • Depth of field : 5 mm • Adjustable interpupilar distance : 51 - 71 mm 	<ul style="list-style-type: none"> • Easier handling • Less refocusing • Time saving
45 degrees	<p>The angle of orientation of the eyepieces enables to work in an optimal position</p>
<p>x0.5</p> <ul style="list-style-type: none"> • Zoom factor : 6.5:1 	<p>To limit the effects of chromatic and spherical aberrations by correcting the focal distances of light beams of different wavelengths to better converge them to the same plane</p>
Led Ring Light	<ul style="list-style-type: none"> • An energy-saving LED illuminator makes lamp replacement unnecessary • The removable diffuser is used to reduce annoying reflections and bright spots ; the lighting is then similar to a fluorescent ring • Diffuser protects the user's eyes
<ul style="list-style-type: none"> • Articulated Stand • 2 eyepieces 10x 	<ul style="list-style-type: none"> • Leica Flex Arm Stand is perfectly balanced and effortlessly adjustable • Glardon® by Syenset's new Articulated Stand offers all versatility of movement together with a solid structure, avoiding vibration to a superior level



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