

DISCOVER OUR PORTFOLIO

Make Eyewear.
Your Way.

SMALL
BATCH
TOOLS

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OUR CONCEPT

Make Eyewear. Your Way.

At SMALL BATCH TOOLS, we make eyewear creation accessible – combining craftsmanship, design, innovation, and individuality to empower makers worldwide and shape a better future.

We believe every frame should reflect creativity and care. That's why we design tools that are both precise and approachable. With the right guidance and equipment, anyone can transform their vision into durable, high-quality eyewear that feels truly personal.

Visionary approach

At SMALL BATCH TOOLS, we are shaping the future of independent eyewear by giving makers the confidence, knowledge, and freedom to pursue their craft. Our approach combines creativity with practicality, ensuring that eyewear production becomes more accessible, more innovative, and more sustainable – one workshop at a time.

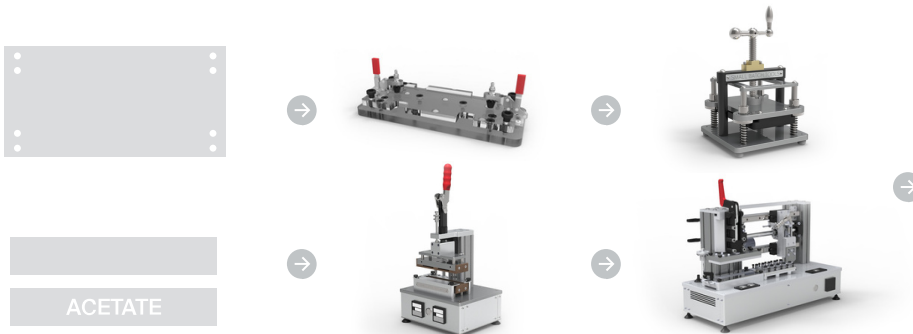
Unique technology

Our tools combine innovation with practical usability, giving independent makers access to professional production capabilities. By integrating modern technology with clear, repeatable workflows, they make it possible to produce custom eyewear directly in your shop, lab or studio. This balance of precision and practicality helps reduce overstock, minimise waste and support more environmentally responsible production.

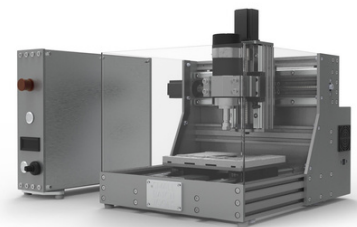
We recognise that ergonomics are essential to both design and eyewear production.

We enable makers to work comfortably, efficiently and with precision. Our system supports you from the initial concept to the finished frame, providing a clear and controlled process at every stage while helping you develop confidence and mastery of the craft.

01 MATERIAL PREPARATION & SIDE-WIRE INSERTION



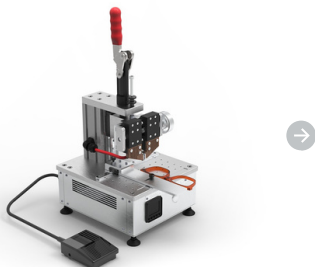
02 CNC MILLING



03 SHAPING & FORMING



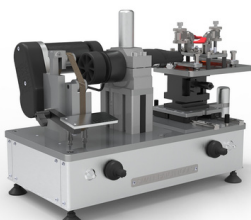
04 HINGE INSTALLATION



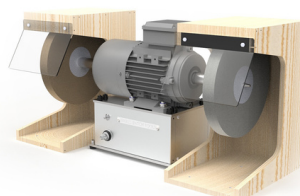
05 BARRELLING: 1ST & 2ND STAGE



06 FRAME ASSEMBLY



07 POLISHING



08 FINAL PRODUCT



We provide three distinct equipment sets, each carefully designed to meet the unique needs of our diverse clientele.

Guided by the experience of eyewear makers worldwide, our advanced solutions provide greater flexibility and capability, helping you increase productivity while maintaining consistently high quality.

PROTOTYPING SET	Flexibility	
	Independence	
	Frame repeatability	
	Space required	
	Power required	
	Weekly production	
	Handwork required	

ESSENTIAL SET	Flexibility	
	Independence	
	Frame repeatability	
	Space required	
	Power required	
	Weekly production	
	Handwork required	

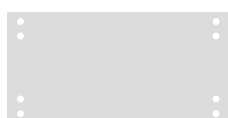
ADVANCED SET	Flexibility	
	Independence	
	Frame repeatability	
	Space required	
	Power required	
	Weekly production	
	Handwork required	

PROTOTYPING SET

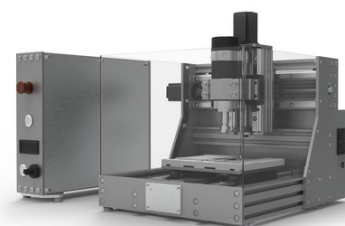
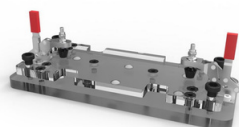
Introducing the PROTOTYPING SET – designed for both enthusiasts and professionals eager to begin their eyewear-making journey. This package provides the core tools to establish in-house production and meet your customers' unique needs, whether for bespoke frames or rapid prototyping.

Including the EYEWEAR CNC milling machine, SHAPER, ADJUSTABLE BRIDGE BUMPER, SMALL SINGLE BARREL, and a POLISHER optimised for eyewear, it enables you to produce a complete frame – excluding side-wire insertion. While bringing a finished product to life still requires time, skill, and personal dedication, the PROTOTYPING SET is the perfect foundation for creating truly bespoke eyewear.

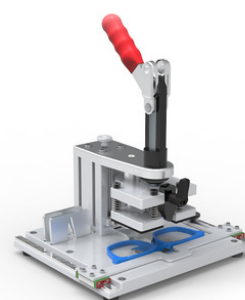
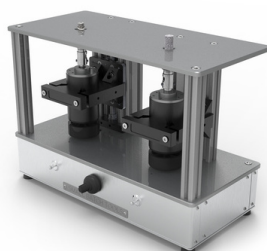
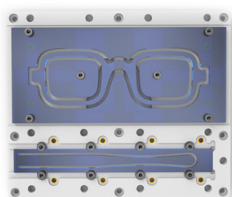
01 MATERIAL PREPARATION



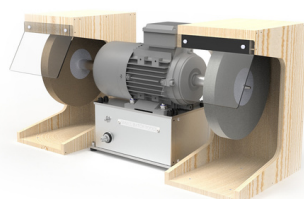
ACETATE



03 SHAPING & FORMING

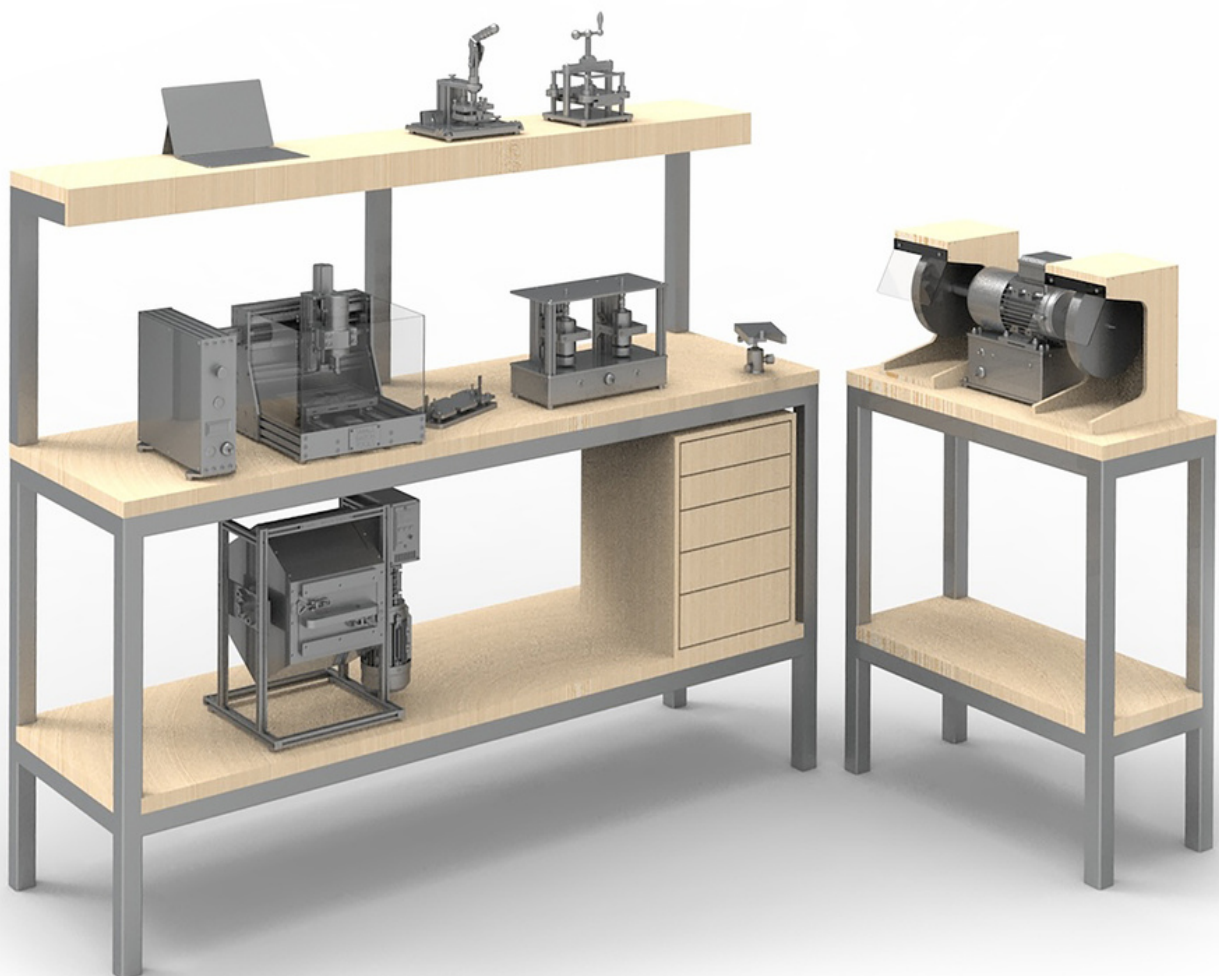
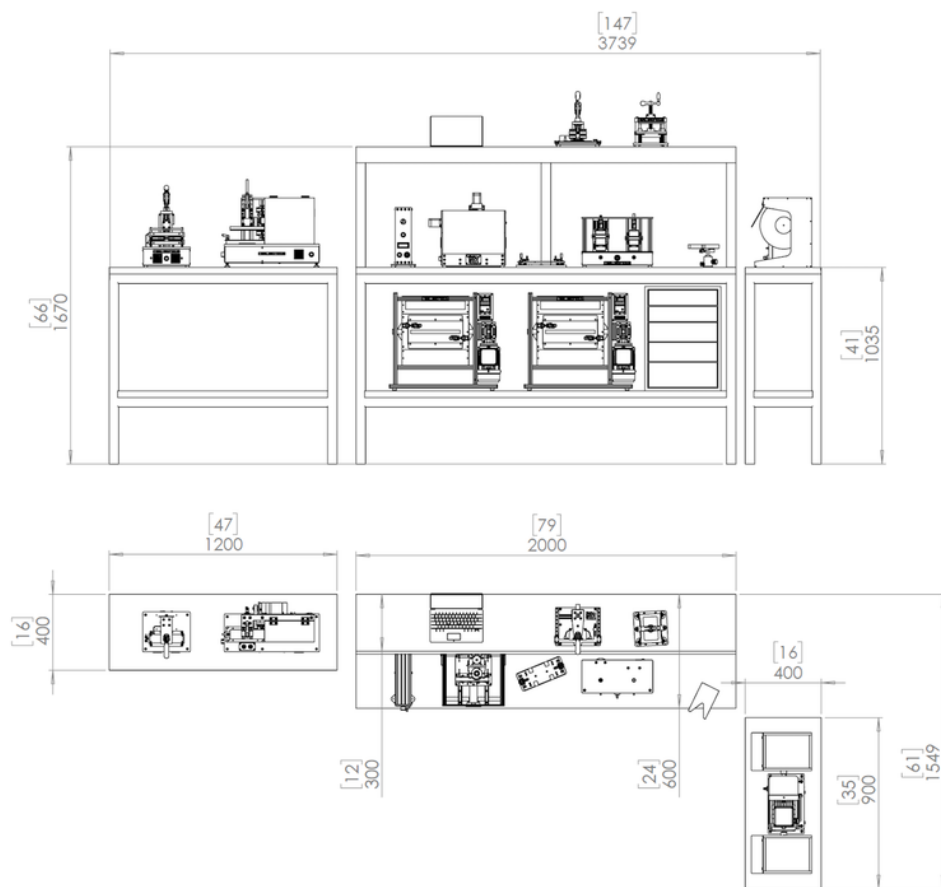


04 BARRELLING: 1ST STAGE



05 POLISHING

06 FINAL PRODUCT

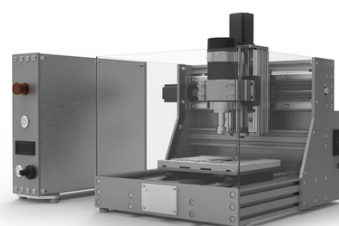
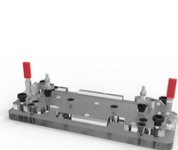


ESSENTIAL SET

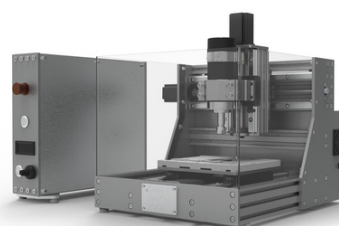
The ESSENTIAL SET is designed for makers committed to building independent frame-production capability. It combines the core equipment required for CNC machining, side-wire insertion, shaping, forming, barrelling and final polishing, providing greater flexibility and control throughout production.

The set includes the EYEWEAR CNC, ADVANCED SIDES HEATER, ADVANCED WIRE SHOOTER, SHAPER w/ GROOVING TOOL with the ADVANCED TOOL SET, two MEDIUM SINGLE BARRELS, an ADJUSTABLE BRIDGE BUMPER and a POLISHER. By bringing these key stages into one coordinated workflow, the ESSENTIAL SET reduces manual effort, improves repeatability and provides a strong foundation for small-batch and bespoke eyewear production.

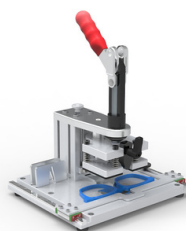
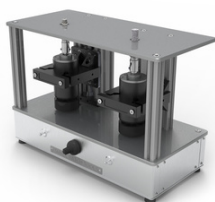
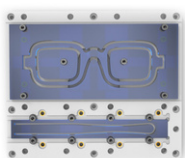
01 MATERIAL PREPARATION & SIDE-WIRE INSERTION



02 CNC MILLING



03 SHAPING & FORMING

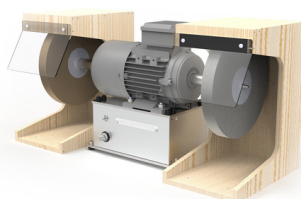


04 HINGE INSTALLATION

05 BARRELLING: 1ST & 2ND STAGE

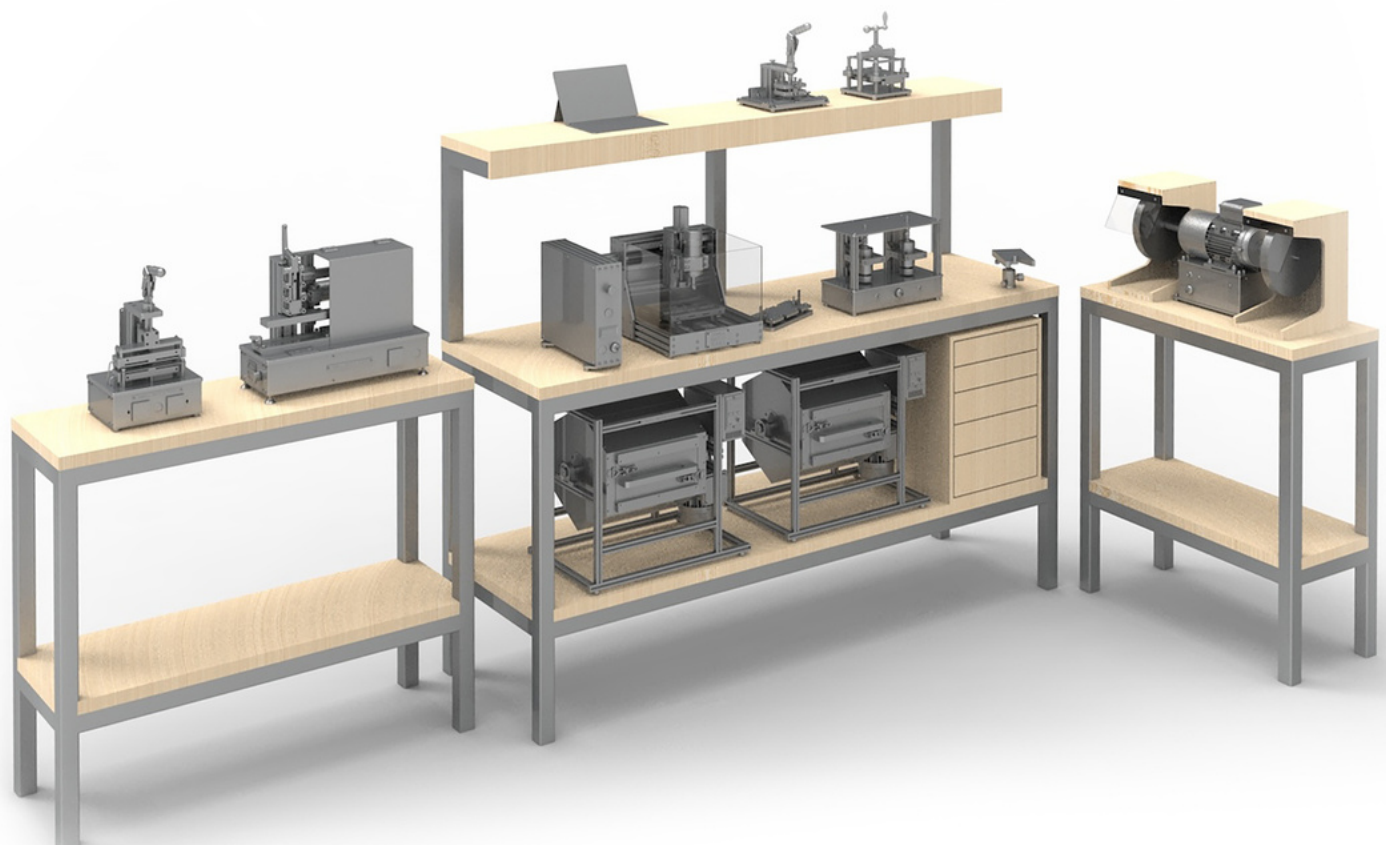
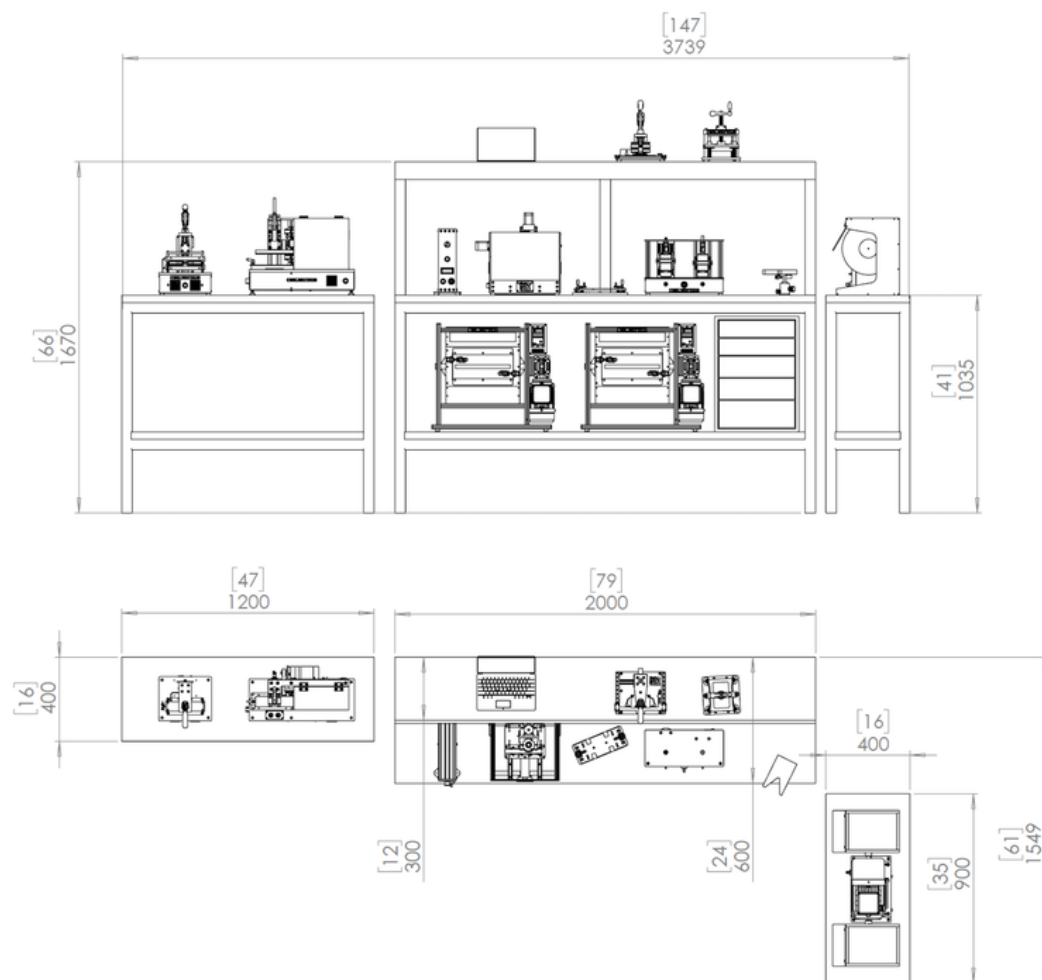


06 POLISHING



07 FINAL PRODUCT





ADVANCED SET

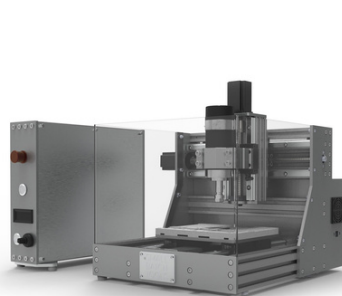
The ADVANCED SET is the ultimate choice for opticians and professionals who demand excellence, efficiency, and flexibility. Perfect for bespoke eyewear production, launching your own product line, or small-scale B2B manufacturing, this package delivers the SMALL BATCH TOOLS solution for achieving outstanding results.

With its focus on innovation and uncompromising quality, the ADVANCED SET sets a new benchmark in eyewear production, keeping you ahead of the competition. To help you unlock its full potential, we support our clients at every stage with tailored guidance.

01 MATERIAL PREPARATION & SIDE-WIRE INSERTION



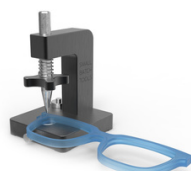
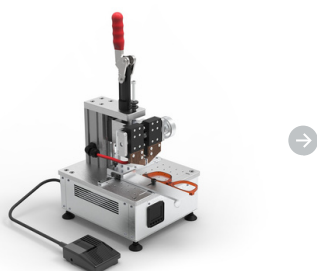
02 CNC MILLING



03 SHAPING & FORMING



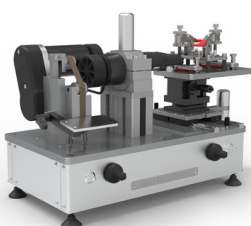
04 HINGE INSTALLATION



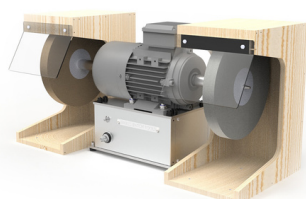
05 BARRELLING: 1ST & 2ND STAGE



06 FRAME ASSEMBLY

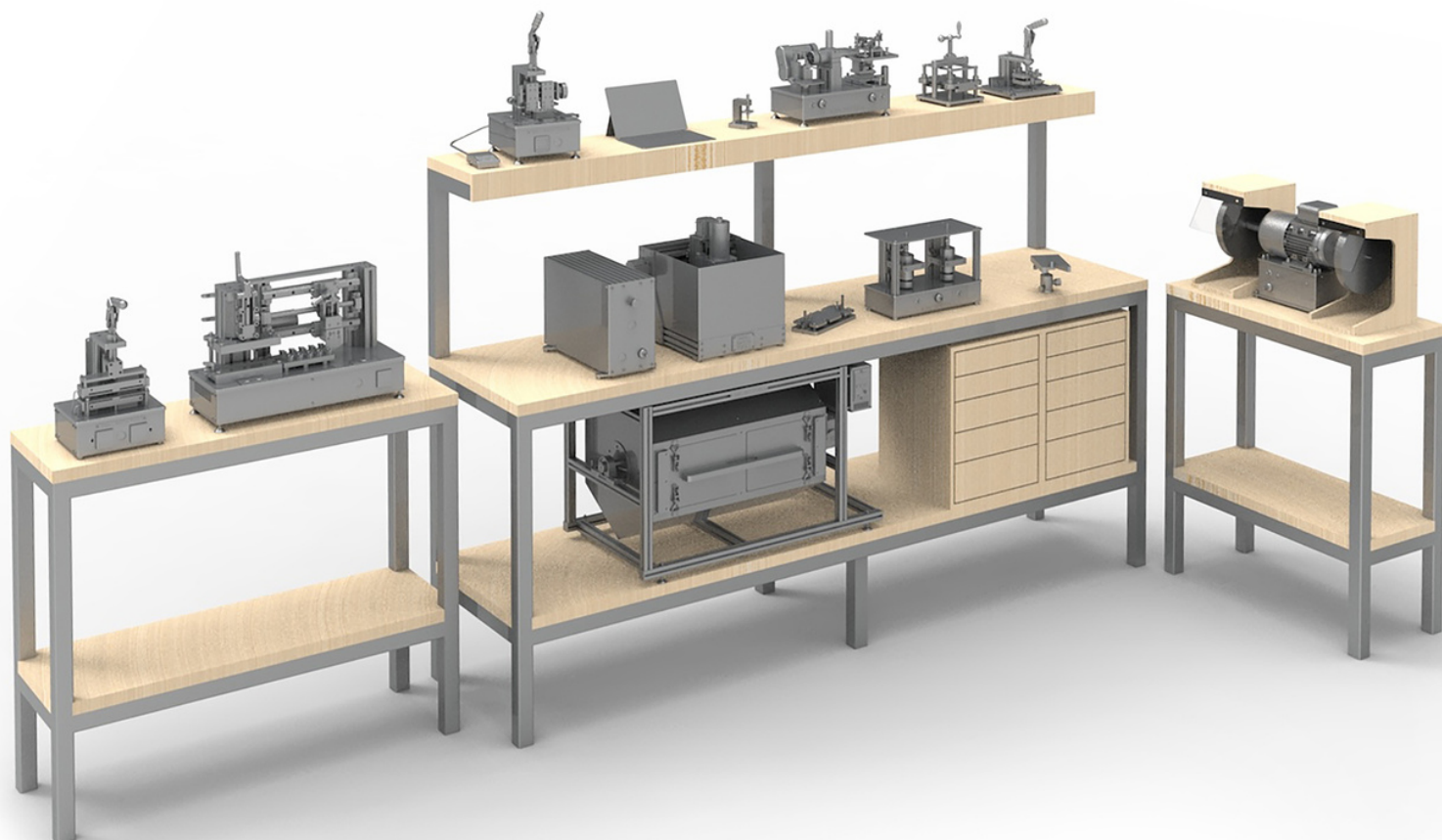
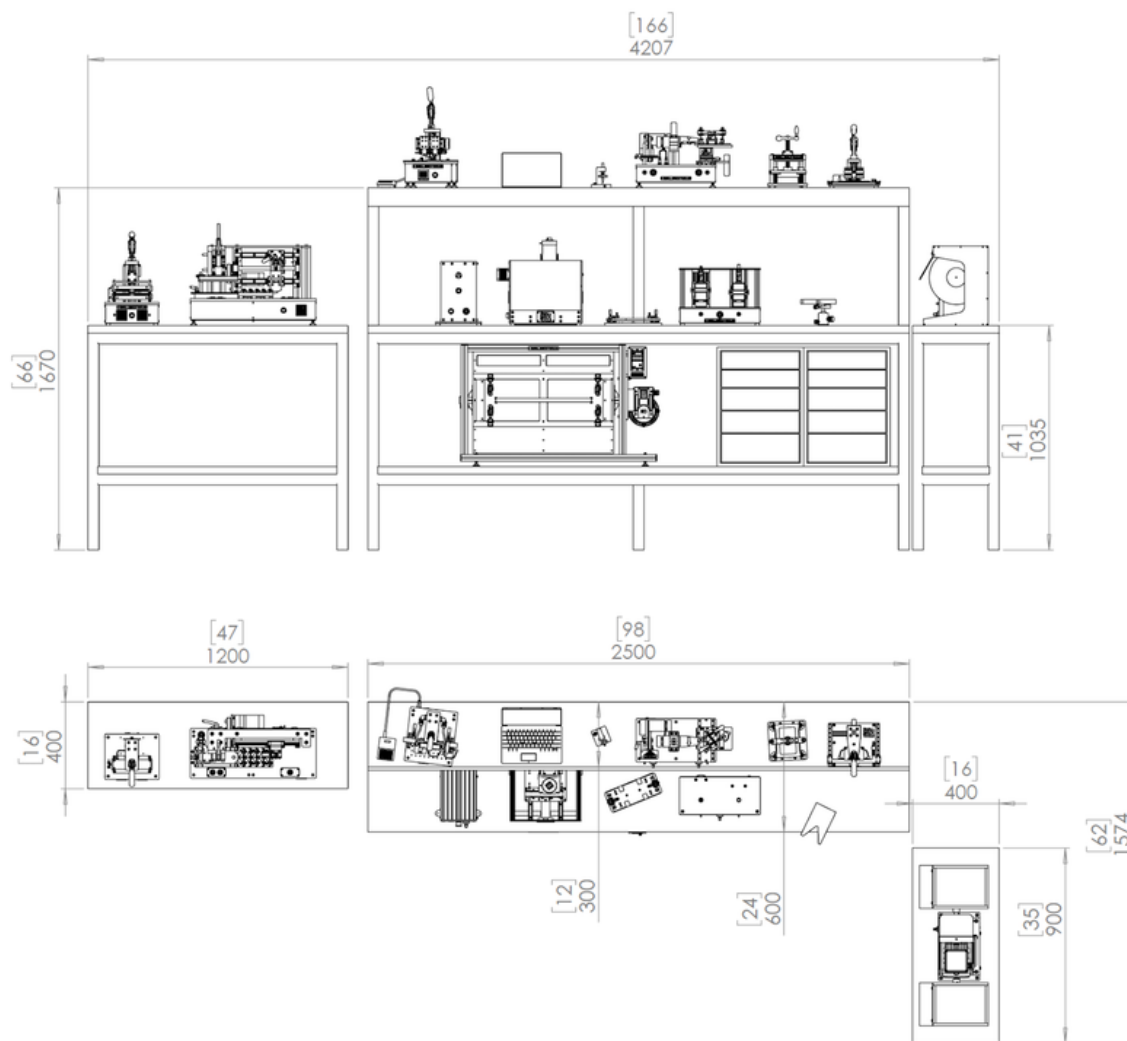


07 POLISHING



08 FINAL PRODUCT





Our CNC machine sets the benchmark for precision and innovation in small-batch eyewear production.

Designed specifically for acetate eyewear production, the EYEWEAR CNC delivers accuracy and consistency in every cut, transforming acetate sheets into professional-quality frames while reducing avoidable errors.

Ease of use is central to its design. A user-friendly interface and clear, step-by-step workflow allow those new to CNC technology to work with confidence while keeping production controlled and efficient.

FLEXIBLE EYEWEAR PRODUCTION

Whether you are developing a one-off design or producing repeatable small batches, the EYEWEAR CNC provides the flexibility to refine your process as your experience and production needs develop.

Comprehensive guidance and remote support help you build confidence at every stage, allowing you to focus on producing distinctive, high-quality eyewear while developing your manufacturing expertise.



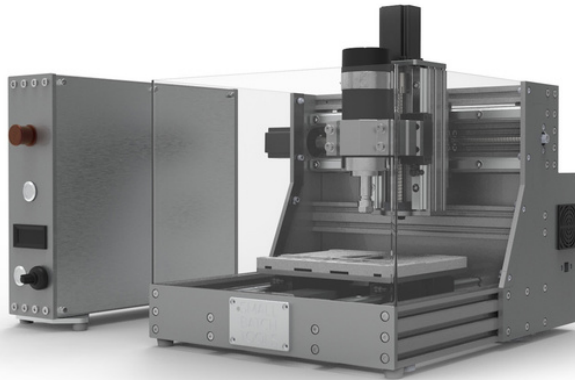
EYEWEAR CNC

SKU: 146-17-000-00

5 790 EUR

Excl. VAT

Our CNC machine is equipped with a 500 W brushless spindle, designed for precise acetate cutting and engraving. Quiet in operation and running at a 1 000 mm/min feed rate, it is perfectly suited to smaller workshops and non-industrial settings. Compatible with macOS and Windows, it integrates seamlessly into your workflow. For added convenience, each machine comes complete with our CNC BED and DRILLER, making setup and operation straightforward from day one.



DRILLER

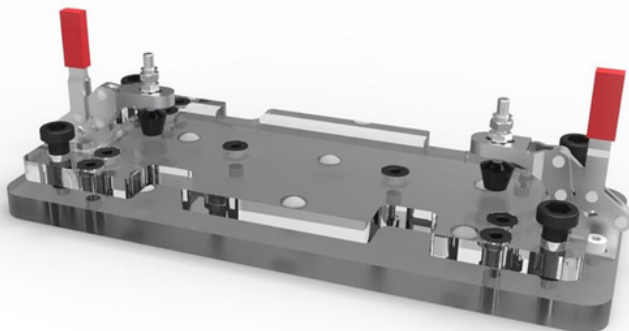
SKU: 136-00-000-00

390 EUR

Excl. VAT

Experience flawless drilling in cellulose acetate or water buffalo horn with this unique tool, precisely engineered to position material for CNC cutting. Designed to work seamlessly with our CNC BED – like Bonnie & Clyde – it is a must-have accessory.

Note: Included at no extra cost with our EYEWEAR CNC.



Side-wire insertion into acetate temples is a vital step in independent eyewear manufacturing, adding both strength and flexibility while preserving design integrity.

By embedding a metal wire, temples gain both strength and comfort for a long-lasting fit. Precision is crucial – the quality of wire insertion directly shapes the performance of each frame. Whether you use a flat wire or a hinged wire core, the combination supports a wide range of design possibilities.

SIDE-WIRE INSERTION, SIMPLIFIED

At SMALL BATCH TOOLS, our specialised combination of the ADVANCED SIDES HEATER and ADVANCED WIRE SHOOTER brings side-wire insertion directly into your workshop. Designed for accuracy and reliability, it supports secure insertion, stronger temples and greater design flexibility. The system can also insert hinge wire cores, combining the hinge and reinforcement in a single component for a more efficient production workflow.

By managing this step in-house, you gain full control of your production cycle, reducing reliance on third-party suppliers and enabling you to create high-quality, bespoke eyewear at scale with confidence.



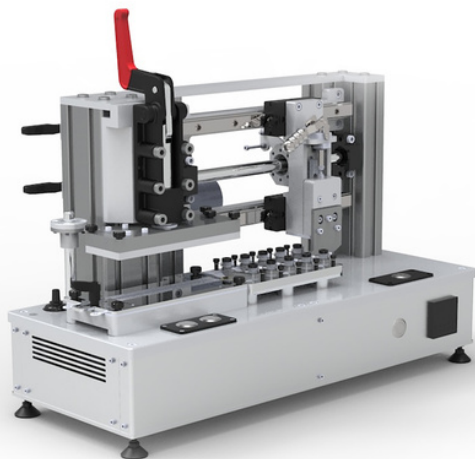
ADVANCED WIRE SHOOTER

SKU: 161-00-000-00

5 390 EUR

Excl. VAT

The ADVANCED WIRE SHOOTER offers a complete solution with interchangeable wire guides, giving you the flexibility to switch effortlessly between different wire sizes and designs. This adaptability ensures smooth customisation, making it a reliable companion for a variety of production needs.



ADVANCED SIDES HEATER

SKU: 179-00-000-00

2 590 EUR

Excl. VAT

The ADVANCED SIDES HEATER delivers controlled, consistent heating of acetate slabs with precise temperature regulation. Designed to accommodate different slab sizes and thicknesses, it prepares materials for flawless wire insertion and ensures superior results in professional frame manufacturing.



**In the delicate craft of
eyewear making, refining
frames requires care,
precision and reliable tools.**

After the initial CNC cutting, the raw 2D frame must be carefully refined: tool marks are removed to achieve a smooth acetate surface, and a precise V-shaped lens groove is added to the interior for secure lens placement. The precision of this groove ensures both a secure fit and lasting structural integrity.

UNIQUE EYEWEAR TOOLING

The ADVANCED TOOL SET elevates the shaping process with specialised tools such as the DOUBLE ROUNDING TOOL, which creates sleek, comfortable temple edges, and the NOSE PADS TOOL, designed to sculpt pads for a secure, tailored fit. Makers can refine frames further using a chamfer tool for a precise 45° bevel or a single rounding tool for softened edges and improved aesthetics.

Through this careful process, each frame is transformed from a raw CNC-cut form into a finished piece of craftsmanship that is durable, precise and expressive, while maintaining production efficiency.



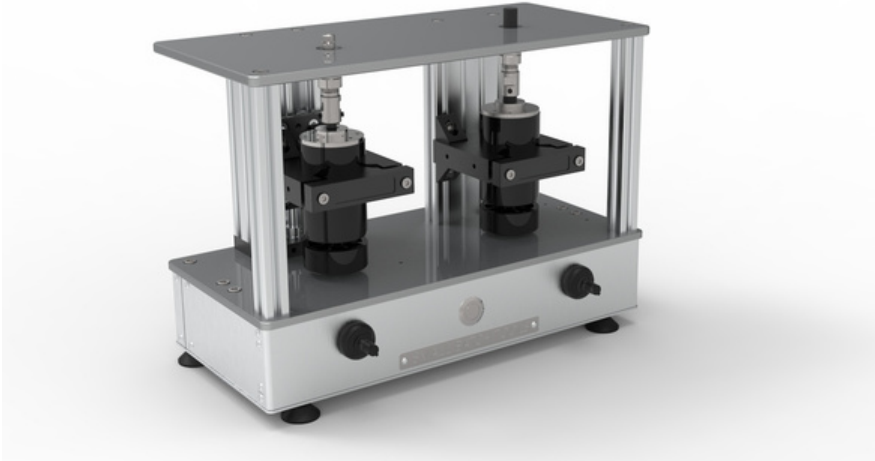
SHAPER w/ GROOVING TOOL

SKU: 185-00-000-GT

1 790 EUR

Excl. VAT

The SHAPER is the ultimate compact solution for refining frames after CNC milling and cutting a precise V-shaped lens groove. Equipped with two motors, micro height adjustment, and a 6 mm collet for effortless tool changes, it performs these essential steps with speed and accuracy, ensuring a flawless foundation.



ADVANCED TOOL SET

SKU: 137-00-000

590 EUR

Excl. VAT

The ADVANCED TOOL SET refines the shaping process with specialised tools, including the DOUBLE ROUNDING TOOL for smooth, comfortable temple tips and the NOSE PADS TOOL, engineered to sculpt pads with precision for a secure, tailored fit. Together, they enhance comfort, style, and accuracy in every frame while expanding your workflow and design possibilities.



The forming process is one of the defining stages in eyewear making.

It's here that flat, cut 2D shapes are carefully transformed into contoured, three-dimensional frames. This step marks the transition from a raw structure into something that begins to resemble a finished pair of glasses.

HIGH-VALUE CRAFTSMANSHIP

Forming begins by creating a V-shaped bump at the nose bridge. This feature is essential for both stability and comfort, allowing the frame to sit naturally on the wearer's face. Proper bridge formation lays the groundwork for the frame's ergonomic quality.

From there, the process continues with the BASE CURVE JIG, a set of specialised moulds that shape the frame to follow the natural contours of the face. The result is improved comfort, refined aesthetics, and a seamless balance of form and function. At this point, the frame begins to reveal its unique character, moving closer to the final product you envision.



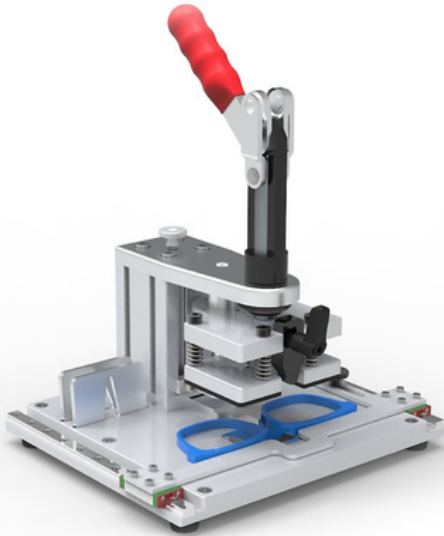
ADJUSTABLE BRIDGE BUMPER

SKU: 133-00-000-00

1 390 EUR

Excl. VAT

The ADJUSTABLE BRIDGE BUMPER makes bridge forming straightforward, with adjustable positioning and full compatibility with exchangeable V-plates. Its compact construction, made entirely from anodised aluminium, combines durability with ease of use to deliver precision and consistency for every frame.



BASE CURVE JIG

SKU: 145-00-000-00

590 EUR

Excl. VAT

The BASE CURVE JIG is an essential tool for shaping cellulose acetate eyewear into refined, three-dimensional forms. Engineered for accuracy and reliability, this manual mould ensures consistent base curves that improve both comfort and aesthetics. Suitable for designers, manufacturers, independent frame makers, and optical labs, it's a versatile addition to any workshop.



Hinges are central to both the durability and the aesthetic appeal of high-quality acetate eyewear.

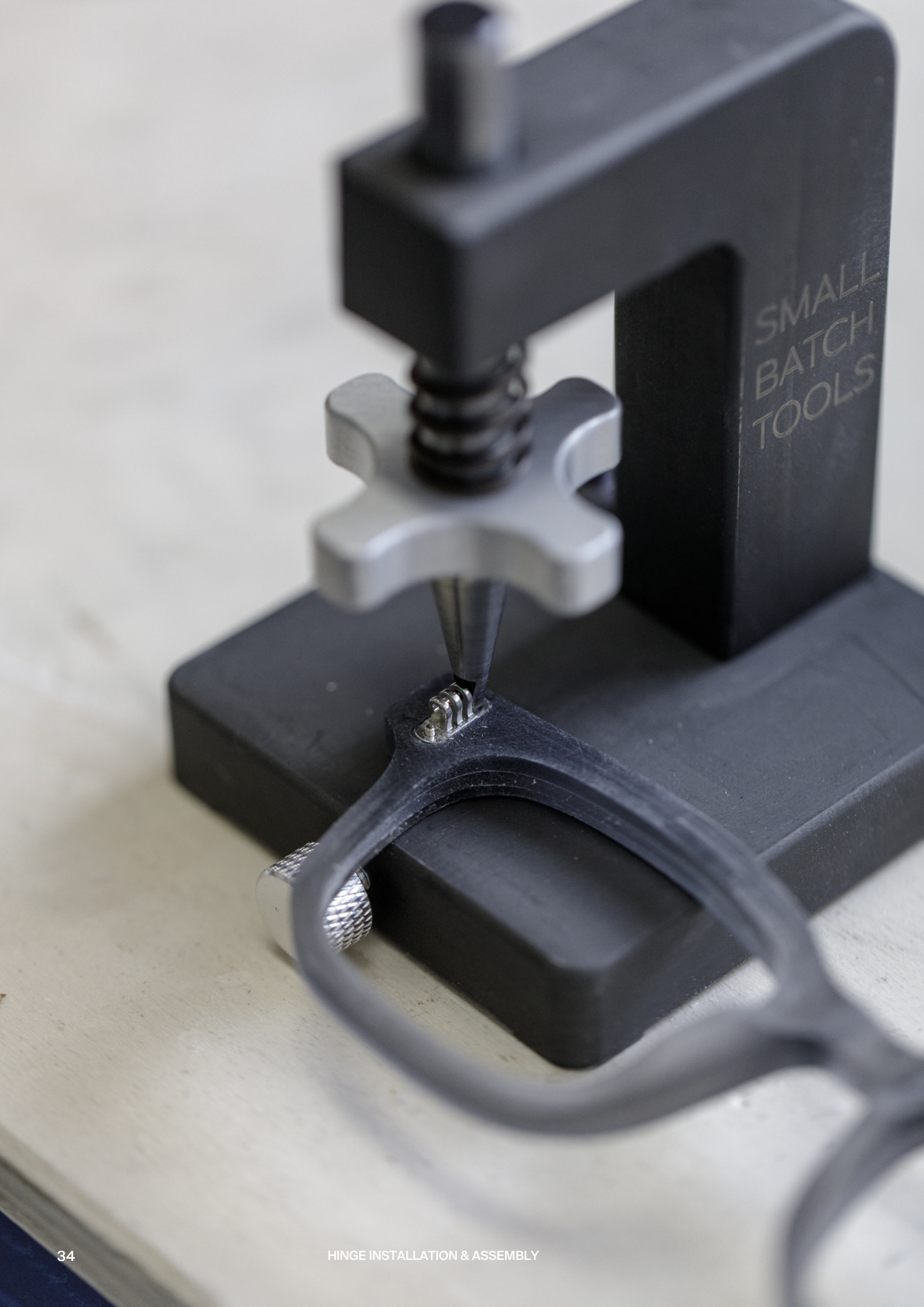
We provide specialised equipment for precise hinge installation and frame mitring and assembly, ensuring this crucial step is always carried out with accuracy and care.

Whether you're fitting heat-inserted hinges for a sleek, modern finish or riveted hinges for maximum strength, our tools ensure a flawless fit.

PRECISION CONNECTIONS

Our equipment is designed for exact mitring and seamless joining of frame fronts and temples, guaranteeing a secure and reliable lug connection. In small-batch production, where every detail matters, this level of precision makes all the difference. By eliminating gaps, misalignments, and imperfections, our solutions allow you to craft eyewear that excels in both functionality and style.

Focusing on these finer details of hinge installation transforms every frame into a showcase of craftsmanship and engineering – eyewear that doesn't just meet expectations but sets a new standard of excellence.



HEATSINK MACHINE

SKU: 169-00-000-00

2 190 EUR

Excl. VAT

Featuring a stable frame support and digital timer with pedal control, it ensures accurate and consistent hinge setting with ease.



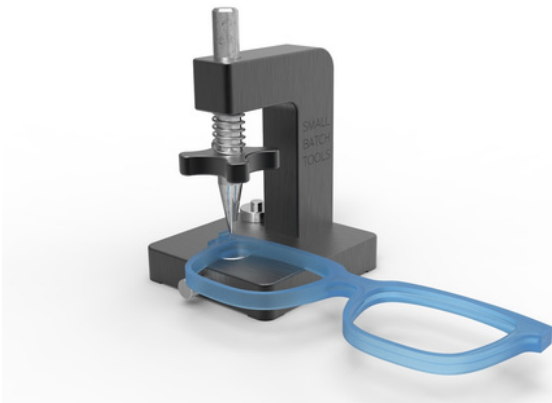
DOMER

SKU: 144-00-000-00

390 EUR

Excl. VAT

A durable riveting tool that applies direct force to create precise mushroom-head rivets, forming secure joints effortlessly.



MITRE MACHINE

SKU: 134-00-000-00

3 590 EUR

Excl. VAT

A compact workstation allowing micro-adjustments and precise mitring for seamless frame joints, delivering a consistent, high-quality finish in small-batch eyewear production.



Barrelling is a vital step in the eyewear finishing process, valued for its efficiency and its ability to deliver consistent results.

We provide specialised equipment designed for a structured two-stage or three-stage tumbling process, using durable hardwood media proven to deliver a professional finish every run.

TUMBLING AS A FINISHING PROCESS

The first stage combines hardwood pegs with natural volcanic pumice to smooth acetate frames, reduce scratches and machining marks, and create an even foundation for further finishing.

An optional intermediate honing stage uses honing paste to refine the surface and prepare it for polishing. Although not essential, this stage improves consistency and helps achieve the best possible barrelling results.

The final stage combines hardwood cubes with a fine polishing paste to enrich the acetate's colour and develop a smooth, radiant gloss. Together, these stages create a controlled and repeatable finishing process while preserving the distinctive character of each frame.

The process can also be adapted to 3D-printed frames, although the settings and results will depend on the material, geometry and initial surface quality.



SMALL SINGLE BARREL

SKU: 171-00-000-00

1 790 EUR

Excl. VAT

The SMALL SINGLE BARREL is a compact finishing unit designed for smaller production runs of up to 10 frames. It offers the same reliable tumbling principle as our larger systems, while requiring less space and lower power input. Ideal for studios and emerging workshops, it delivers consistent sanding and polishing results in a practical, space-efficient format.



MEDIUM SINGLE BARREL

SKU: 172-00-000-00

1 990 EUR

Excl. VAT

A compact tumbling solution with a 20-frame capacity, designed for stacking and dedicated use within a two- or three-stage finishing process. Simple to operate and engineered for uniform barrelling, the MEDIUM SINGLE BARREL delivers consistent, professional-quality results and dependable performance over extended running times.



Two-stage manual buffing is the final, crucial step in eyewear production, where frames achieve their signature brilliance.

We present a compact polishing solution designed to deliver flawless results every time. Engineered specifically for cellulose acetate, our POLISHER brings out the material's natural beauty with a smooth, premium finish – a true reflection of the skill and dedication invested in each pair.

IMPECCABLE ACETATE FINISH

By combining optimised machinery with high-quality polishing compounds, this process removes surface imperfections and reveals the depth and richness of every colour and texture. Whether working with bold tones or subtle shades, polishing enhances the individuality of each frame, elevating it from a functional accessory to a genuine piece of craftsmanship. With our specialised equipment, opticians and eyewear makers can ensure that every frame leaves their workshop in pristine condition, showcasing excellence in both appearance and quality.



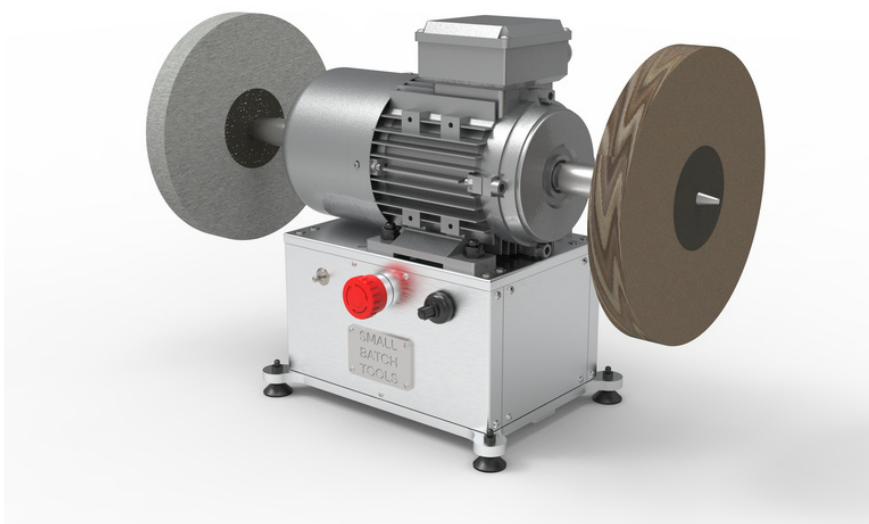
POLISHER

SKU: 197-00-000-00

1 990 EUR

Excl. VAT

Compact yet powerful, the POLISHER combines a slow-speed, high-torque motor with support for 10" buffing wheels, providing the control and precision needed for impeccable finishes. With an adjustable speed range from 195 to 1,450 RPM, it adapts to any polishing requirement, making it an essential tool for both eyewear professionals and enthusiasts aiming for top-quality results.



POLISHER HOODS

SKU: 138-01-000-00

390 EUR

Excl. VAT

Designed to pair with the POLISHER or other compact polishing units, POLISHER HOODS passively capture dust and excess paste, helping to keep your workspace tidy. Constructed from durable materials, they ensure a cleaner environment.



SMALL BATCH TOOLS

CONTACT US

www.smallbatchtools.com

info@smallbatchtools.com

+420 732 113 333

+420 602 432 867

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