

HIGH PERFORMANCE EQUIPMENT FOR LEATHER AND SYNTHETIC MATERIALS PERFORATION 2 INDEPENDENT MULTI-TOOL HEADS



HIGH QUALITY

Perfect holes in size and shape.



PRODUCTIVITY

High production capacity (up to 100 holes/sec) on any type of project



FLEXIBILITY

Up to 10 different punches at the same time. Prompt and simple.



COMFORT

Soundproof and safe.







HIGH QUALITY MICROSCOPE-PROOF QUALITY

The diameter and shape of the tool are guaranteed for millesimal precision of the hole and **repeatability**. Quality unachievable with other punching systems.





PRODUCTIVITY

Innovative technologies and high performance (up to 100 holes/sec) make UPP a strategic tool for production in the Footwear industry. Its versatility allows its dynamic use for production and also for development and prototyping. Up to 2 million holes with a single pin, fast and simple to changeover.

2 INDEPENDENT MULTI-TOOL HEADS

THE MACHINE CHOSEN BY THE MAJOR FASHION BRANDS RELIABLE 24/7

The UPP is engineered for 24/7 work.
Its solid mechanical structure, which uses materials derived from aeronautics, guarantees absolute reliability

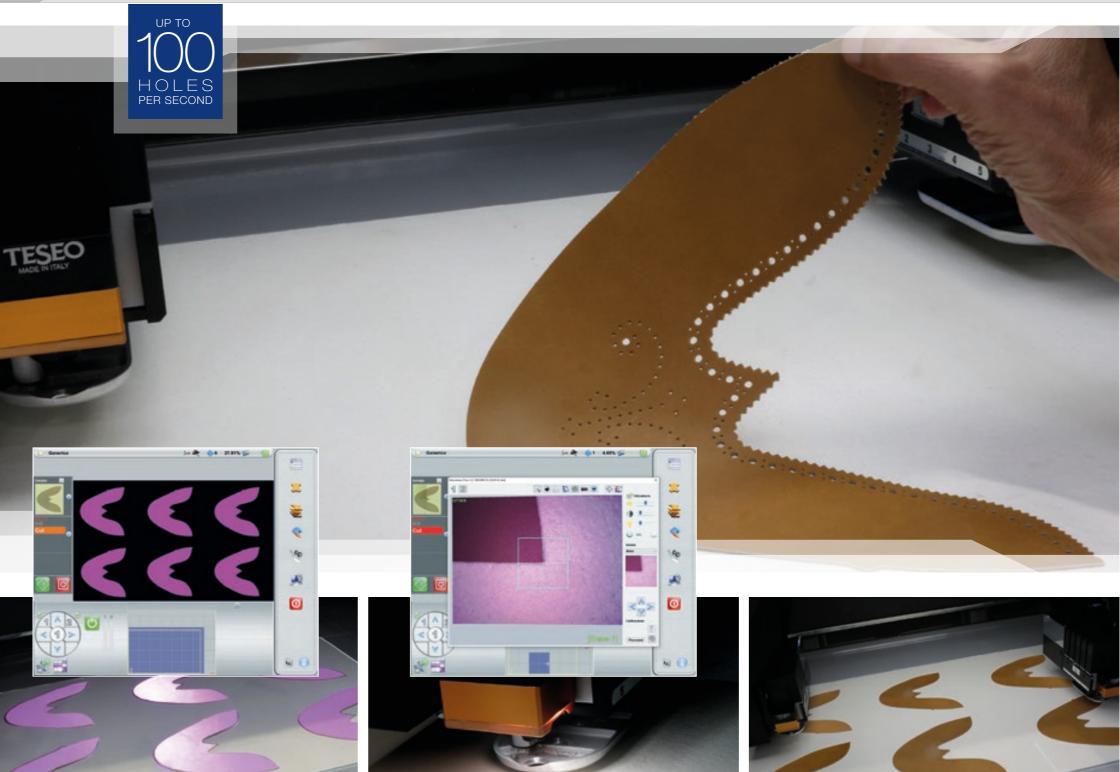


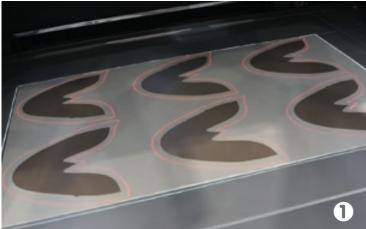


EASY TO USE

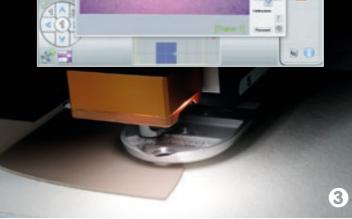
4 SIMPLE STEPS FOR FAST AND PRECISE AUTOMATIC PUNCHING.

CHANGING DESIGN IS EASY AND QUICK











ASSISTED PLACEMENT

An ultra-high brightness projector allows quick and intuitive placement of the parts on the working area.

AUTO-CENTERING

2

UHD cameras instantly locate the parts placed in the working area.

FINE TUNING

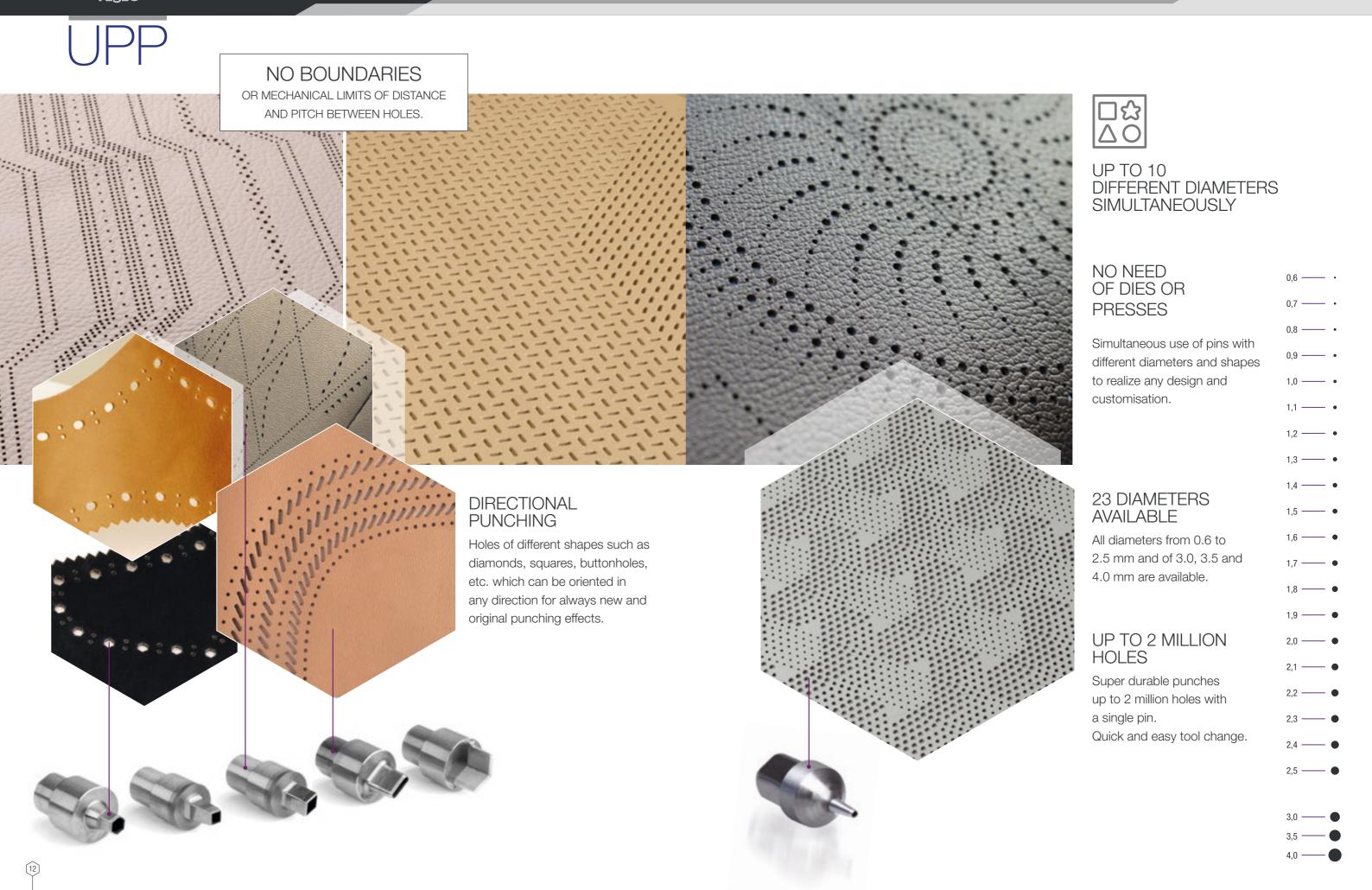
ARGHON technology centers with accuracy the parts and automatically position the punching path.

PUNCHING

The part is held fixed on the punching area by the suction system and is not stretched or deformed.







HIGH TECHNOLOGY AT THE HEART OF HIGH QUALITY

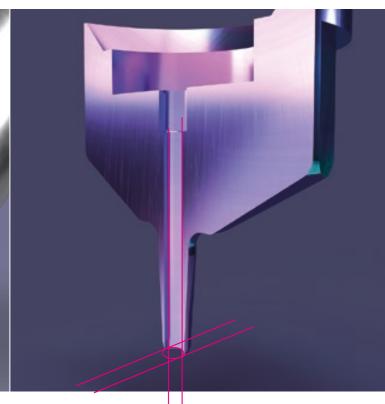
Aeronautical and machined from solid components to reduce stress and vibration while punching.

Durability, rigidity, speed and lightness guaranteed.



JUST





ACCURACY AND RELIABILITY

The quality and reliability derived from the characteristics of **precision motion system**: linear guides and ball screws adjusted to ISO 3 (error max 0.005 mm).

HIGH TECH ENGINEERING

Two types of fast, compact and ultralight heads.

Top quality and precision punching.

Engineered for 24/7 industrial

Engineered for 24/7 industrial production with the highest quality standards.

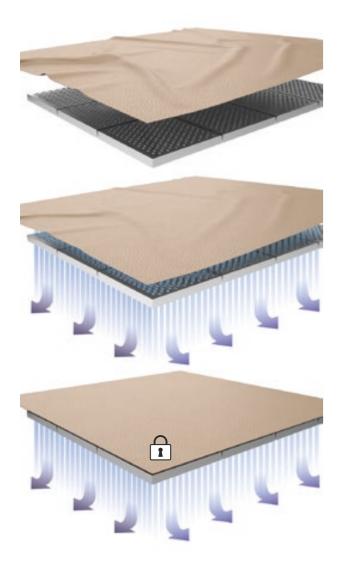
ENDURANCE

Excellent resistance to abrasion, wear and erosion.

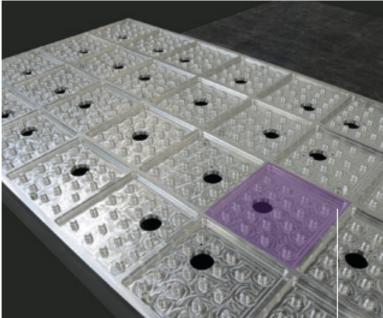
Pins manufactured in hard materials alloy from tungsten carbide and cobalt, up to 2 MLN holes per pin.

HIGH PRECISION

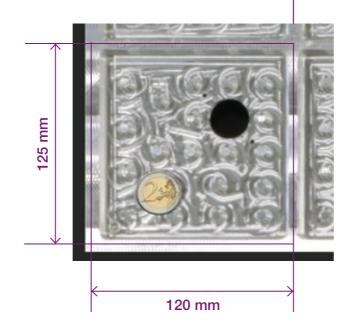
Perfectly straight pin. Exact hole size, no countersinking. Flawless quality also on laminated materials.



THE ONLY CNC EQUIPMENT IN THE WORLD
THAT **AUTOMATICALLY** SECURES THE PART
TO THE SURFACE WITH ITS POWERFUL
SUCTION SYSTEM

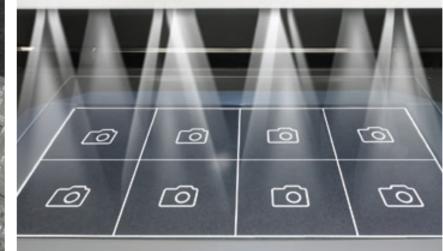


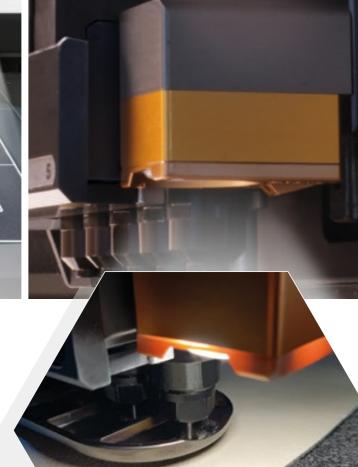
Working surface machined from solid block and milled to size for maximum precision and stability. Sectorized in digitally controlled micro suction sections to ensure perfect stability of the parts while punching.





Automatic projection, scanning and centring of parts.
Integrated multi-camera UHD system, high definition projector and dimmable LED panels.





ARGHEDN

A SMART HD CAMERA ON THE HEADS

ARGHON is a smart powerful HD camera installed directly on the heads: equipped with two precision optical sensors, it is individually capable of acquiring images.

ABSOLUTE PRECISION

ARGHON recognizes details size smaller than 0.05 mm.





COMFORT

Automatic soundproof door for optimal work comfort (72 dB)





SAFE

Maximum security guaranteed by the automated door and safety optical barriers.





Keyboard and touch screen for an intuitive and friendly use.

Scrap suction technology ensures an always clean work surface.



UPP MEETS THE INDUSTRY 4.0 REQUIREMENTS



Every company that operates today faces a common challenge: the need for connectedness and access to real-time insights across processes, partners, products, and people.

Industry 4.0 represents a unique opportunity for an efficient and agile reorganization of production activities focusing on interconnectivity, automation, machine learning and real-time data.

It's about revolutionizing the way your entire business operates and grows. It's about choosing the best technology to **UPPgrade your business**.

That's where TESEO comes into play.

UPP meets the Industry 4.0 requirements for a SMART factory

SMART PRODUCTION:

UPP is designed for integration with ERP, planning, design and product development systems. Process data collection, real-time reporting and statistical analysis.

SMART SERVICE:

Remote interaction via NESSO® software to collect operational data and to provide remote support and maintenance through augmented reality technologies (i.e. NESSO®Visual and NESSO®Real)

SMART ENERGY:

Energy consumption 40% lower than other solutions on the market.

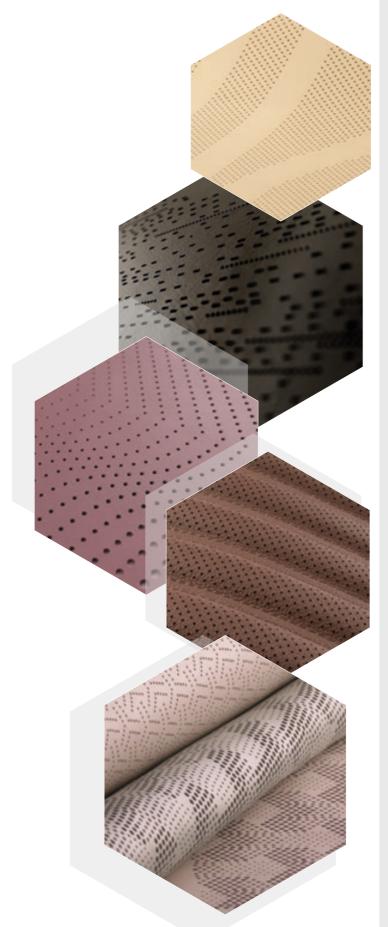
High performance as well as security and improved energy saving.



UPP VS OTHER SYSTEMS

UPP is a unique solution on the market and its CNC technology offers great advantages over traditional perforating machines, be it needle, die cut systems or adapted sewing machines. Zero tooling costs and times, quick and easy project change, great variety of hole shape and size, absolute design flexibility, no deformation of the part after the punching process. Here are just a few benefits that make UPP the best solution to successfully achieve your projects.

	UPP			
INDIPENDENT HEADS	2	X	X	X
SUCTIONED WORKING AREA	•	X	X	X
NOT DEFORMED AND/OR STRETCHED PART	•	X	X	X
NO TOOLING COSTS	•	X	X	•
High quality	•	Χ	X	X
Hole repeatability	•	X	X	•
UP TO 100 HOLES PER SECOND	•	X	X	X
UP TO 10 DIAMETERS SIMULTANEOUSLY	•	X	•	X
VARIABLE HOLE DISTANCES	•	X	•	•
DIRECTIONAL PUNCHES OF DIFFERENT SHAPES (DIAMOND, SQUARES, BUTHOLES)	•	×	×	X
FLEXIBILITY AND DESIGN CHANGE EASE	•	X	X	•
MAXIMUM DESIGN FLEXIBILITY	•	X	X	X





2 fully independent arms equipped with compact multi-tools head.

HEADS:

P5S: 5 Ultra fast circular punching tools

P50: 5 Directional punches

Movement on grinded precision guides and grinded re-circulating balls lead screws (ISO 3, max. error ± 0.005 mm). Brushless motors with digital closed–loop position control.

METI software procedures for a parallel management of real-time perforation, loading and optimization of perforation files from SQL/MDX archives, work time statistics, cutting order management.



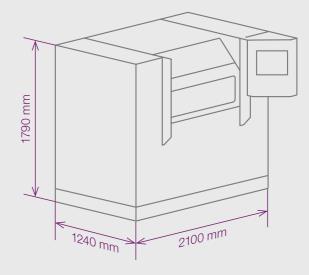
Working area sectorized with 40 micro-sectors of 120x125 mm each singularly activated by dynamically controlled valves (DVC, patent) for the optimal hold of the leather on the punching area.

Performances

SPEED	max 1.0 m/sec
ACCELERATION	max 4G (40 m/sec ²)
PERFORATION DIAMETER	from 0.6 mm to 4.0 mm
THICKNESS LEATHER	max 2.0 mm
THICKNESS LAMINATED	max 8.0 mm
PERFORATION SPEED	max 100 holes/sec

MODEL	UPP
HEADS	2
PUNCHING AREA	1000x600 mm
SCANNING AREA	1200x800 mm
UHD CAMERAS	8
COLOR PROJECTOR	1

The technical data shown are indicative. TESEO reserves the right to modify them, without notice, at any time.





pioneers and dreamers







