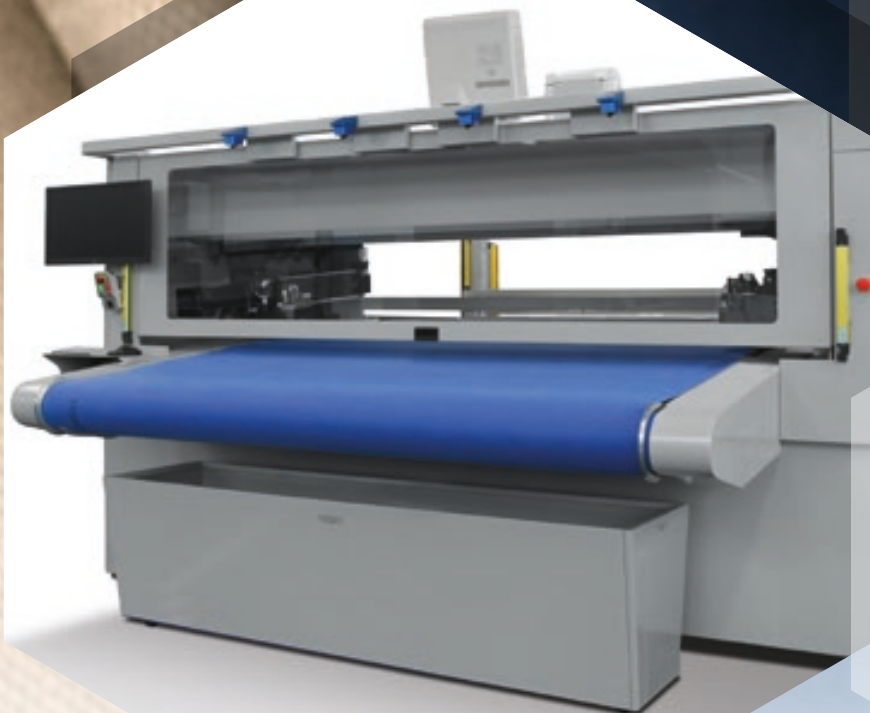


Xi

HIGH
PRODUCTIVITY
FOR SINGLE AND
MULTI-PLY

DUAL
CUTTING HEADS

TESEO
OPTIMIZEYOURBUSINESS



Xi

COMPACT, PRODUCTIVE AND FLEXIBLE:
SUITABLE BOTH FOR LEATHER AND
FABRICS MATERIAL

DUAL
CUTTING HEADS



PRODUCTIVITY
High production capacity on
any type of project.



VERSATILITY
Suitable for roll materials,
multi-ply and leather.



MATERIALS SAVING
The most advanced and efficient
nesting algorithm for the highest yield.



COMFORT
Soundproof and safe.



SINGLE TO
MULTI-PLY
FABRIC
UP TO
25
mm
COMPRESSED



PRODUCTIVITY FABRIC AND SYNTHETIC

Xi cutting system allows you to cut both single and multi-ply.
You can select the working method most suitable to your needs:

- Multi-ply
- Roll-Holder

Xi can be equipped with several unwinding devices up to 8 rolls of max 400 mm Ø.

MULTI-PLY

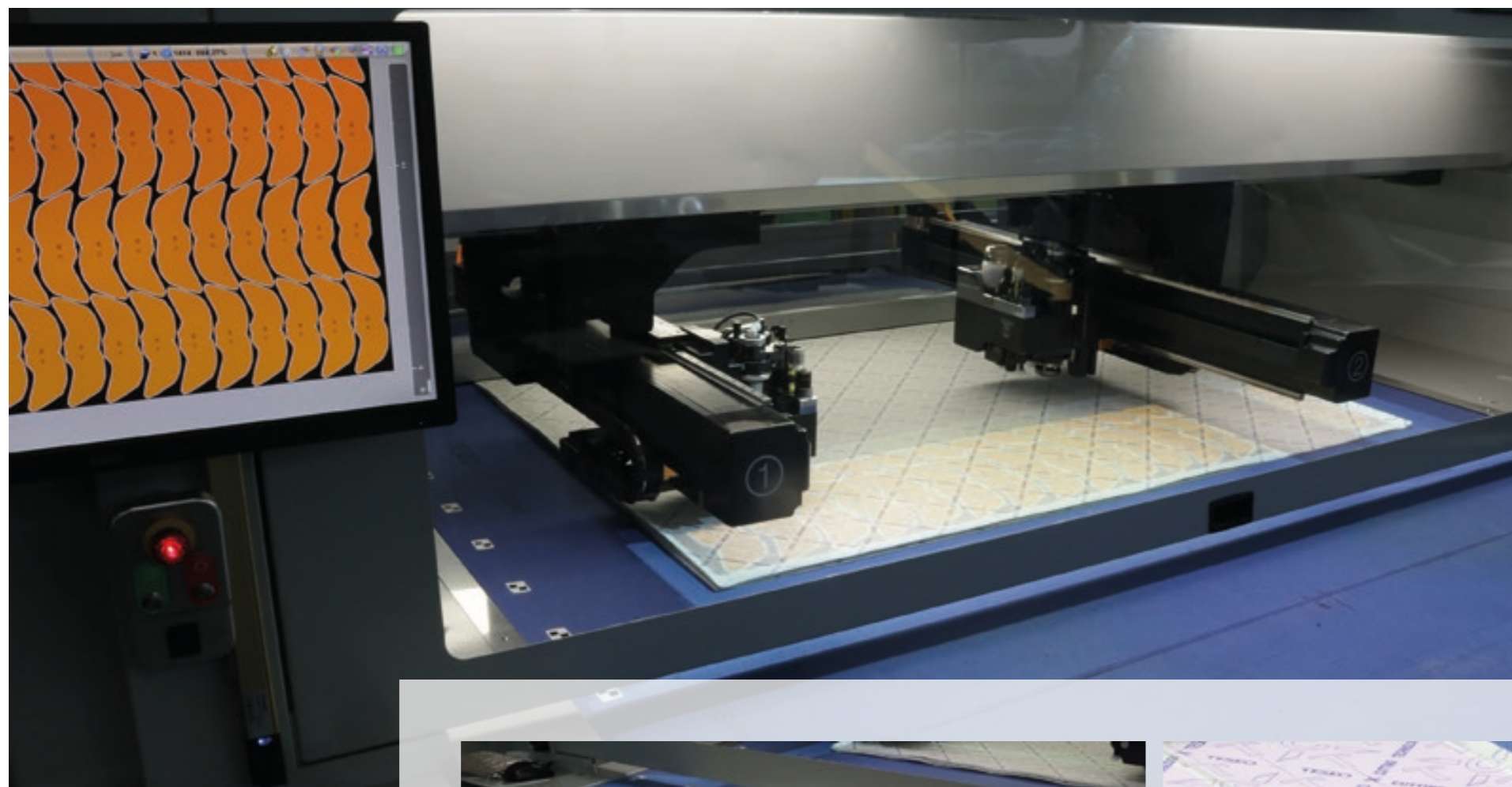
ROLL-HOLDER



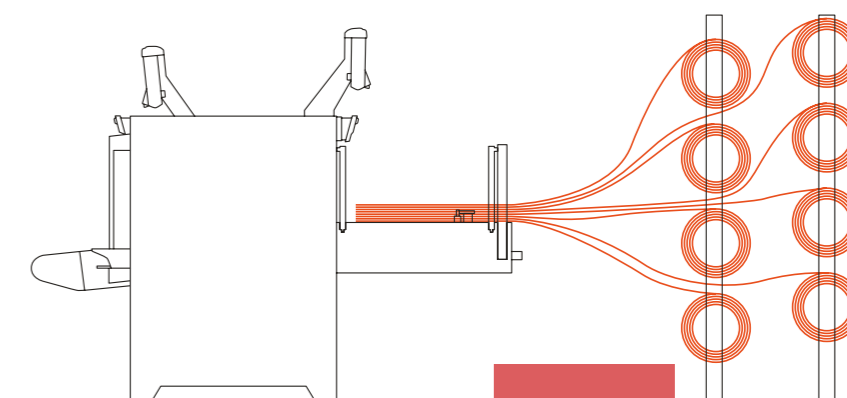
MLF (Multi-Layer Feeder)

The material moves along the cutting area through a mobile clamp, which fixes and moves the layers smoothly.

PRODUCTIVITY FABRIC AND SYNTHETIC



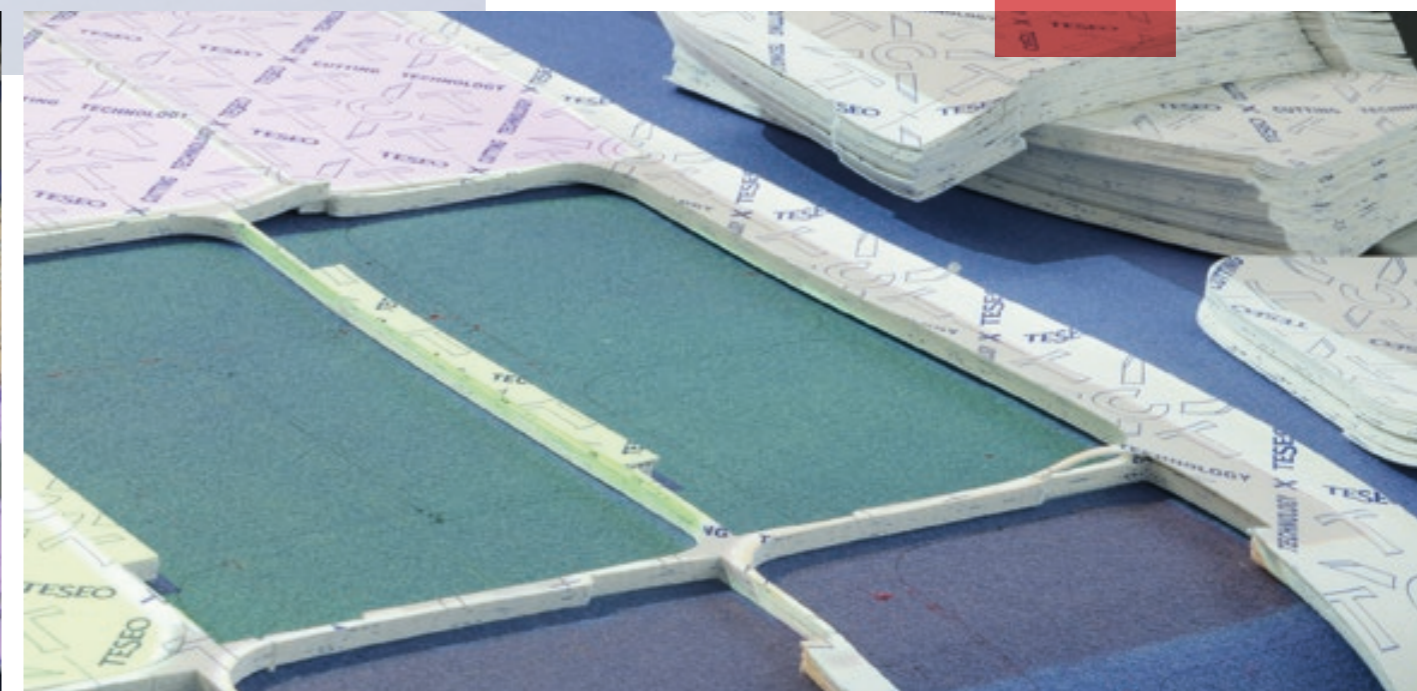
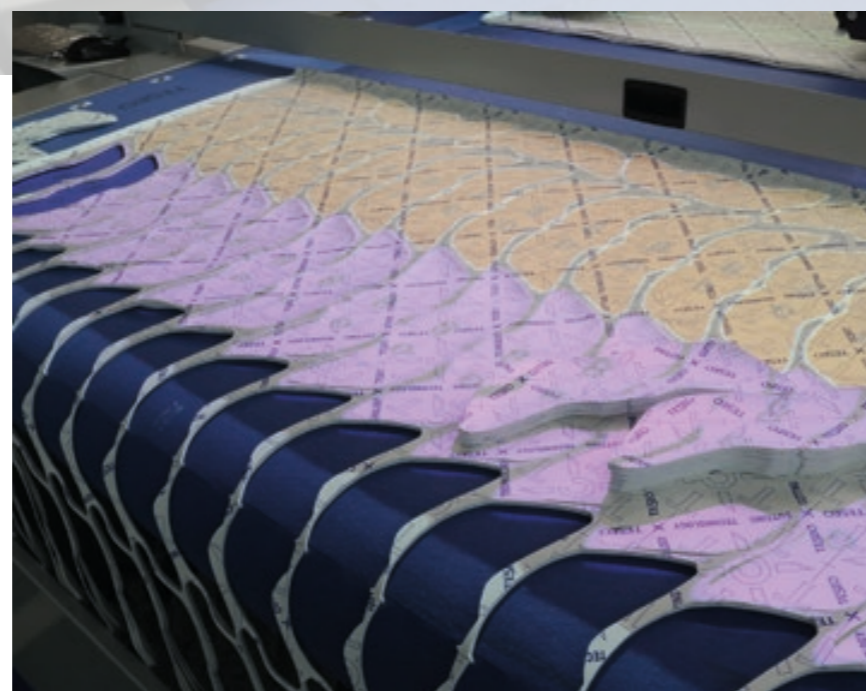
Conveyor belt on the working surface makes **Xi** suitable for cutting fabric rolls. Material moves along the working surfaces automatically and smoothly.



Maximum precision and cutting efficiency for materials from 1 up to 8 layers, thickness up to **25 mm** compressed.

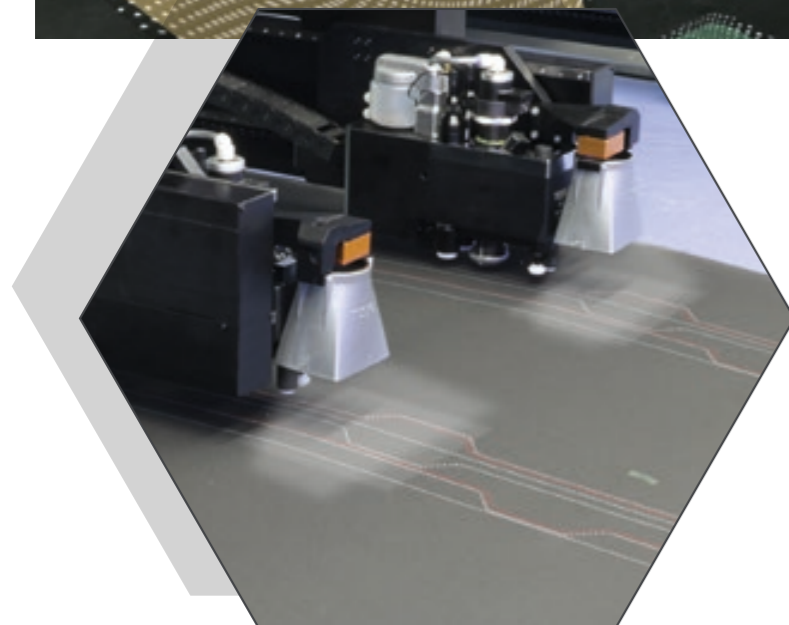
UP TO
8
LAYERS

Xi is equipped with a frontal and rear projection system to facilitate the collection of cut parts, that can be detected by colors for each size and model.





Sherlock is a precision optical recognition system developed by TESEO. Installed directly on the cutting heads, it is able to **recognize any kind of pattern** of the material that needs to be cut: logos, textures, designs or lines.



Sherlock will automatically adapt in real-time the theoretical nesting to the actual pattern of the material, piece by piece.

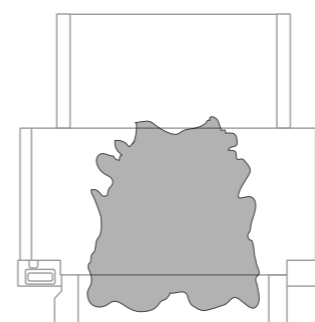
High production of parts with absolute accuracy.

Inspection on each piece with alignment and rotation in real time.

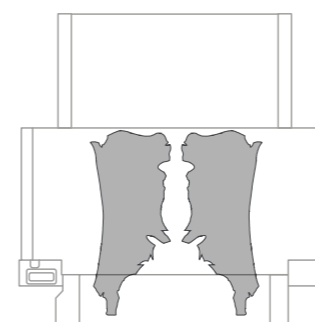


VERSATILITY

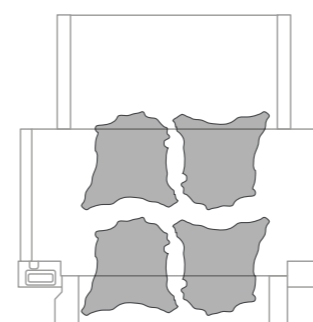
NO COMPROMISE



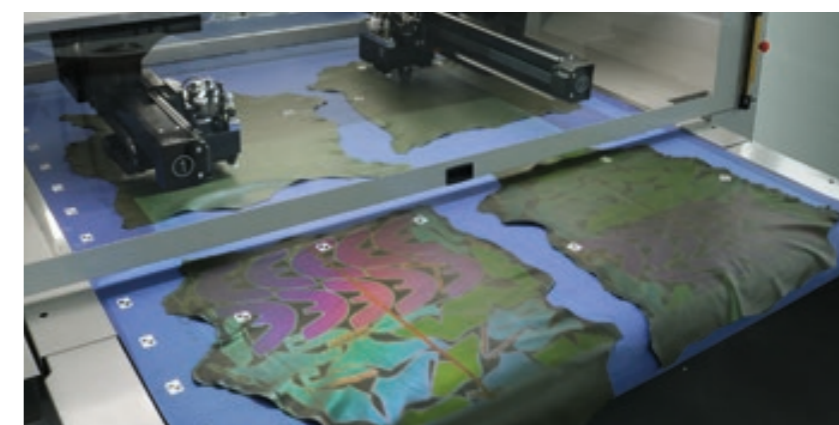
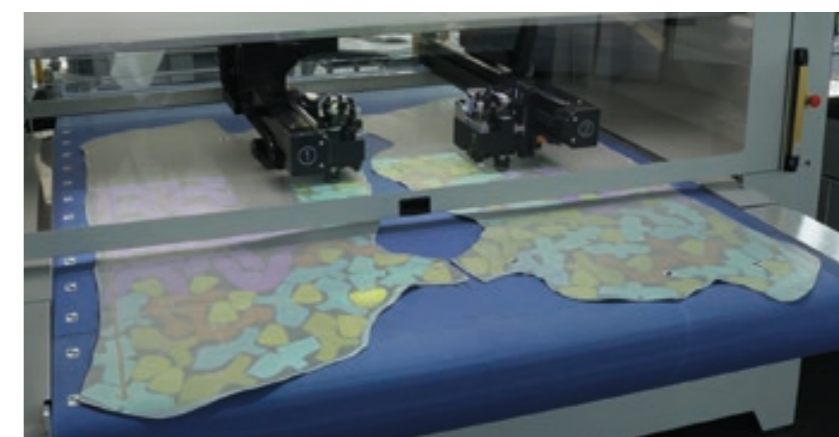
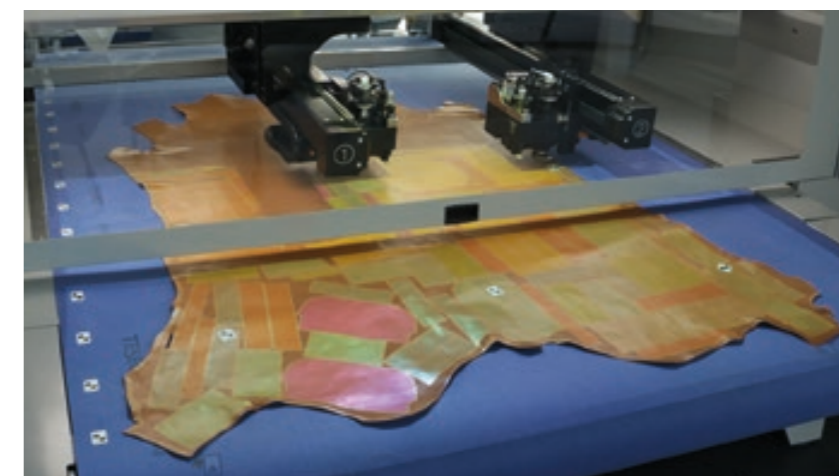
FULL HIDES



HALF HIDES

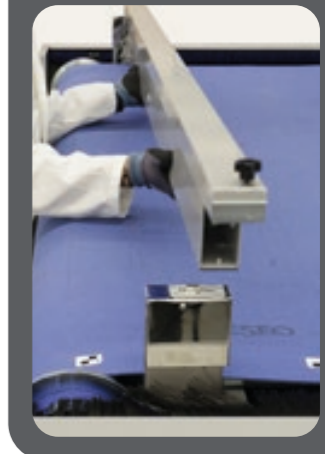


SMALL HIDES



READY FOR
LEATHER
CUTTING IN
2 MINUTES

MLF REMOVING





SAVING ON-BOARD AND OFF-BOARD NESTING

OFF-BOARD INSPECTION AND NESTING



OFF-BOARD NESTING ON **MOB**

Leather inspection and classification table, provided with Meti software, useful for manual or automatic scanning and nesting. 3000x1200mm sectorized and vacuum surface.



1. SCANNING

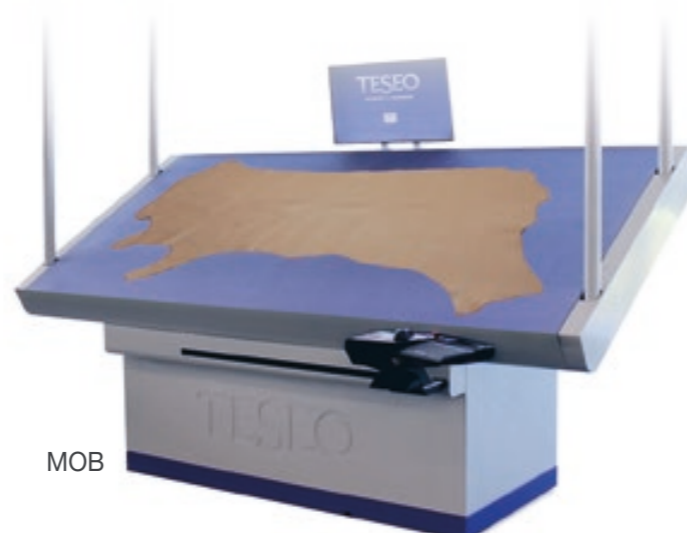
Place **ROT** on the leather.

2. NESTING

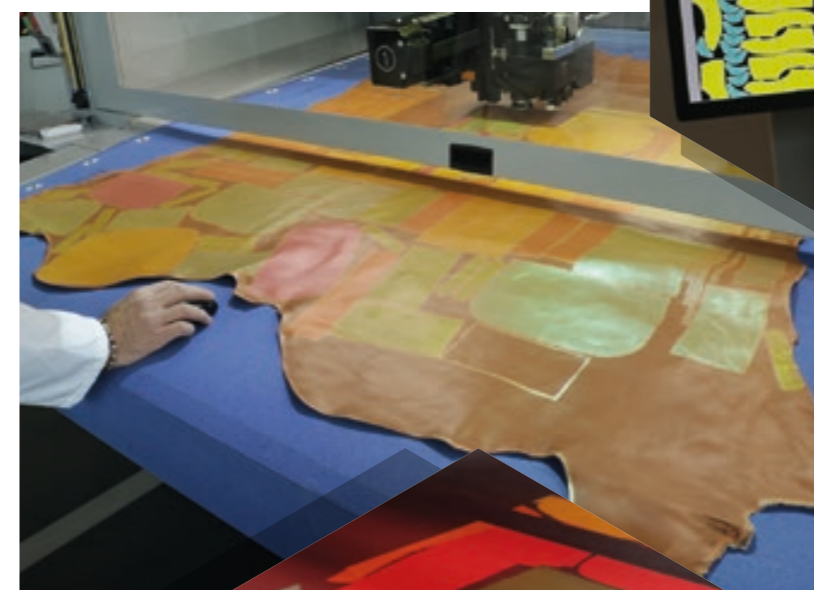
The leather is scanned and marked with defects and quality areas. Once the leather is ready, the software performs the automatic nesting.

3. ON BOARD REPOSITIONING

The leather now can be automatically re-positioned and cut on **Xi**.

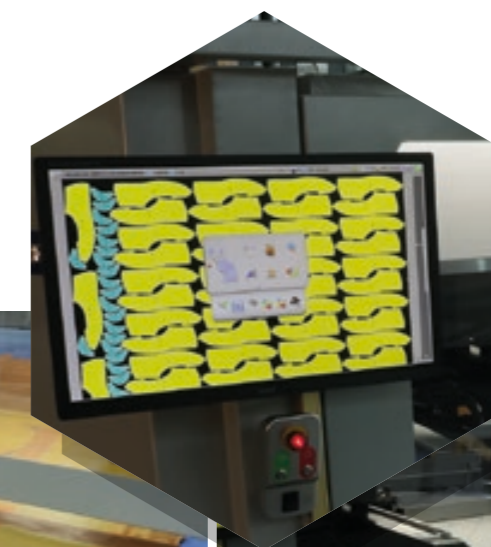


MOB



ON-BOARD **MANUAL** NESTING ON **Xi**

The operator can also manually place parts in the front area of **Xi**.



ON-BOARD **AUTOMATIC** NESTING ON **Xi**

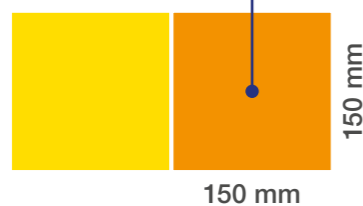
Teseo's algorithms will automatically place pieces to be cut on the available material, optimizing the consumption of the useful surface.



VACUUM SYSTEM THE POWER IS IN THE AIR

The vacuum surfaces consist of **independent and dynamic small sectors** of 150x150 mm. They are dynamic because are driven by a software that recognizes the shape of the material and the position of the cutting head. The system automatically activates, with different power, only those areas interested by the cutting operations, by excluding completely those not occupied.

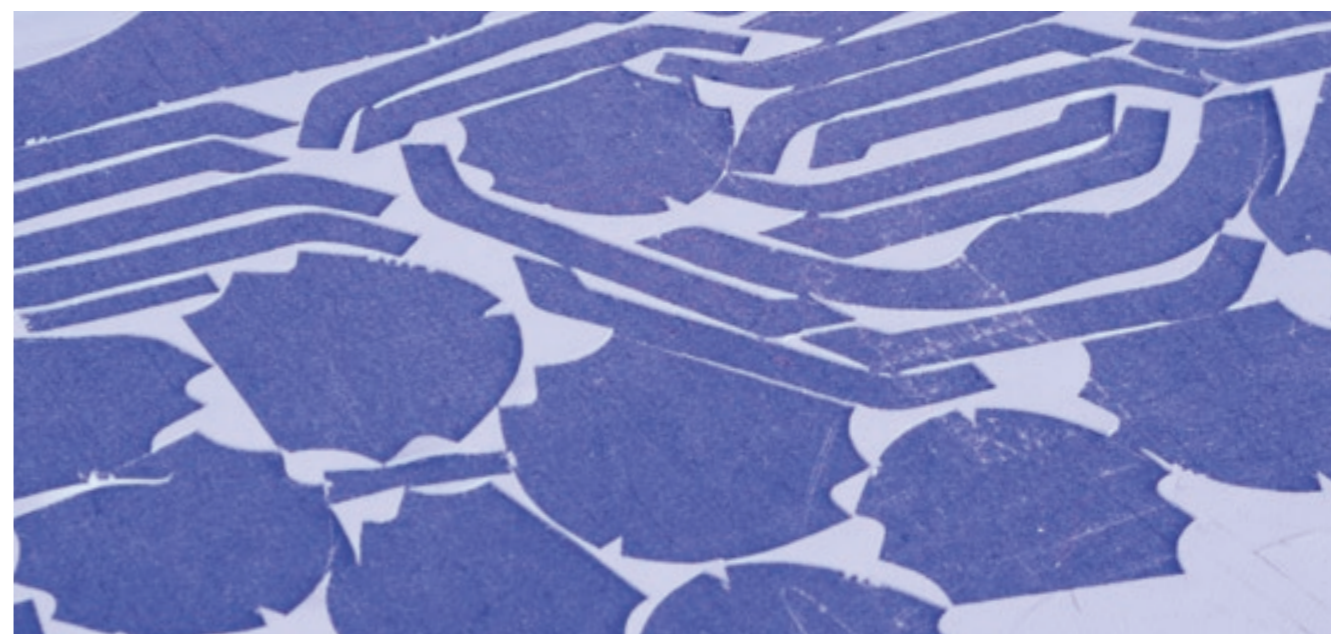
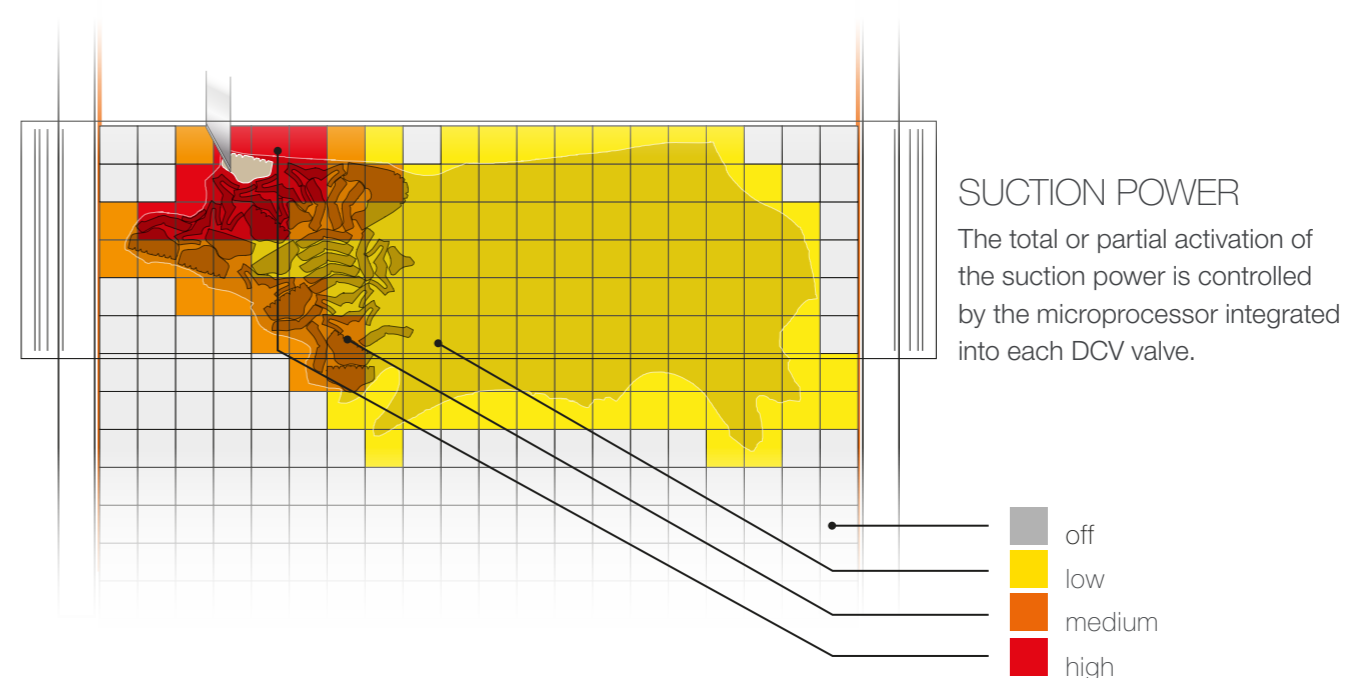
With this **patent TESEO** concentrates the suction only where it is really needed, for the highest accuracy and speed.



INTELLIGENT

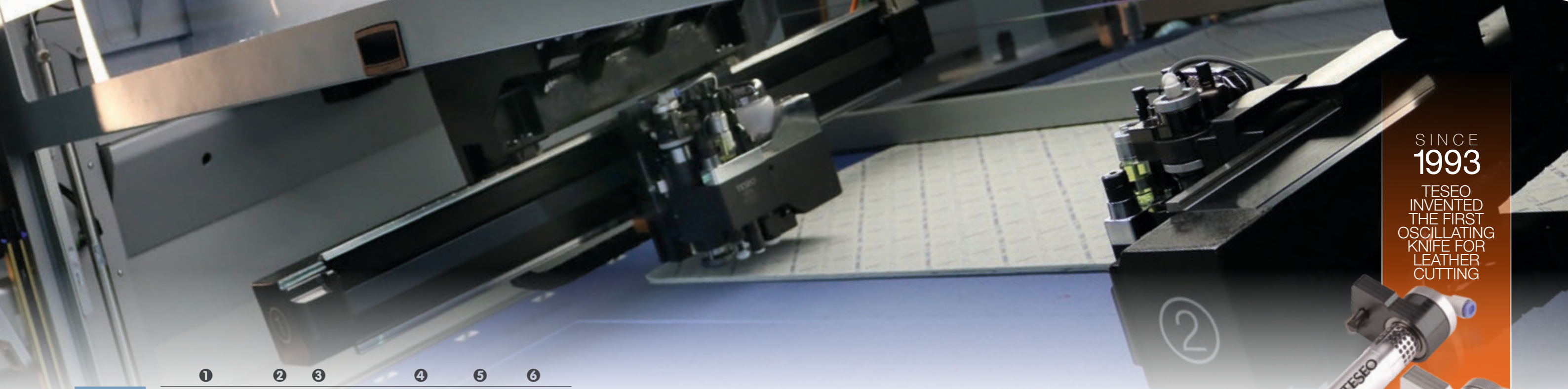
The vacuum system activates **only the necessary sectors and requires** a low consumption vacuum pump (less than 15 Kw), saving up to **40%** of energy compared to all the other solutions.

ONLY IN TESEO CONVEYOR SYSTEMS THE VACUUM ALWAYS FOLLOWS THE CUTTING HEAD



- NO PAPER OR FILM NEEDED
- ZERO BUFFER
- LEATHER SAVING

The vacuum, concentrated only in the cutting zone, allows the maximum of the performance **without having to use plastic or paper film** to keep the pieces blocked. The ability to cut up to the edges and to Ø mm between one piece and another, allows a further **considerable saving of leather**.



SINCE
1993
TESEO
INVENTED
THE FIRST
OSCILLATING
KNIFE FOR
LEATHER
CUTTING

UP TO
6
TOOLS

- | | | | | | |
|------------------------|---------------------------------|----------|--|----------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Blade for fast cutting | Pen and punch for the signature | | Up to 3 different diameter dies: from 0.8 to 12 mm | | |
| | | | | | |

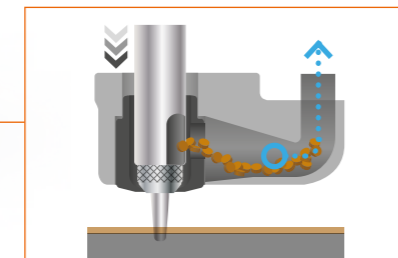
ALWAYS AVAILABLE IN REAL TIME

The cutting head tool-stand are independent and **always available** (installed in parallel under the cutting head). The choice of the punches to use involves only its activation via software **without waiting**. The tools can be deactivated individually in case of a fault, **without harmful machine downtimes**.

FAULT
TOLERANCE

FAST, LIGHTWEIGHT AND QUIET

The TESEO cutting heads are equipped with **single spindles (TESEO patent)** dedicated to punches and punchings. Fabricated with extremely fixed and light materials (only **148 gr**), they are easy to handle as well as reliable. The reduced weight allows a **faster punching and a lower energy consumption**.



PUNCHING WITH SUCTION

Active suction in every cutting head: the shavings are canalized in the specific tank to **keep clean the cutting area every time, also from very thick materials**.

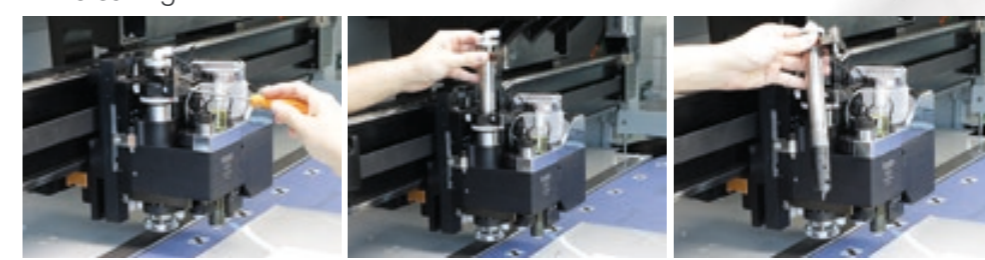
FAST AND ACCURATE CUTTING ON ALL MATERIALS

- Exclusive pneumatic oscillating knife with high oscillation frequency (up to **50.000 RPM**).
- Low consumption of compressed air of only **95 l/min** (other systems have 270 l/min).
- Time saving.



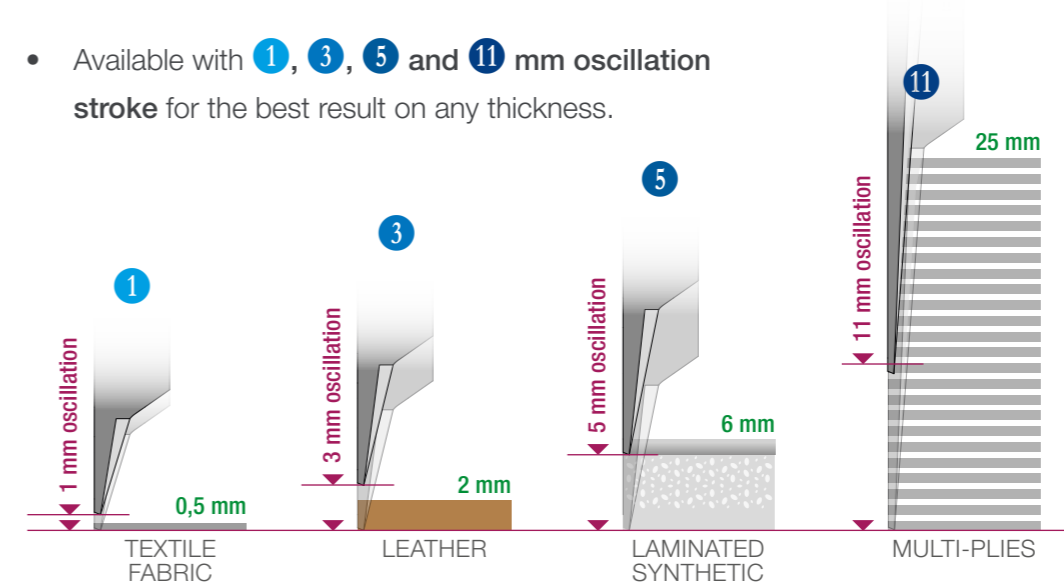
UP TO
50%

ENERGY
SAVING



Changing blade or oscillating knife in less than **45 seconds**.

- Available with **1, 3, 5 and 11 mm oscillation stroke** for the best result on any thickness.





LESS NOISE MORE COMFORT

Soundproof doors for optimal work comfort (77.8 dB).

FRONT DOOR



REAR DOOR



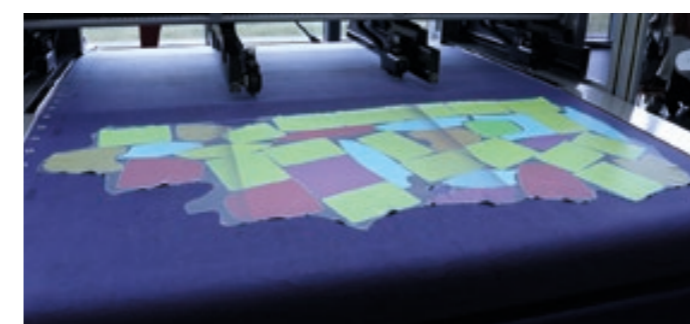
SAFE

Xi is equipped with a **special cover protection that reduces the dB emission**. It guarantees a friendly and healthy working environment for the operators.



THE MOST EFFICIENT NESTING IN THE WORLD

As the pioneer and inventor of the first automatic nesting software for leather, **since 1998** Teseo algorithms are the most sophisticated and efficient on the market. Compared to the others nesting systems it can guarantee **up to +6% in the saving of leather**.



METI HAS THE BEST STRATEGY

Sophisticated mathematical algorithms will place the pieces to be cut on the available leather, by optimizing the exploitation of the useful surface of the leather with a saving up to **15%** compared to manual.

SAVING

granted 3% medium 7% up to 15%



MULTI-NESTING SOFTWARE THE BEST POSSIBLE YIELD

To further increase the yield, METI allows you to make a multi-nesting by distributing the patterns of hides simultaneously, enhancing the interlocking and material saving that could not be achieved by working on one hide at a time.



SUPPORT SERVICE ONE-TO-ONE DIRECTLY ON YOUR SYSTEM

Through our branches all over the world, **NESSO** grants a **REMOTE technical support in real time**, by avoiding any production stop. A solution to any problem or just a fast reply to a possible doubt.

DIRECT REMOTE CONTROL ONLY WHEN YOU NEED IN JUST 3 CLICK

- 1 Support request.
- 2 Connecting with TESEO support.
- 3 With your consent, a TESEO technician will operate directly on your equipment, even at thousands of miles of distance.



SUPPORT SERVICE AVAILABLE IN...
67 COUNTRIES - 10 LANGUAGES



Xi 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 smooth 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 **Upgrade your business**.

That's where TESEO comes into play.

Xi meets the Industry 4.0 requirements for a SMART factory.

SMART PRODUCTION:

Xi 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 is 40% lower than other solutions on the market. High performance as well as security and improved energy saving.

Xi TECHNICAL FEATURES

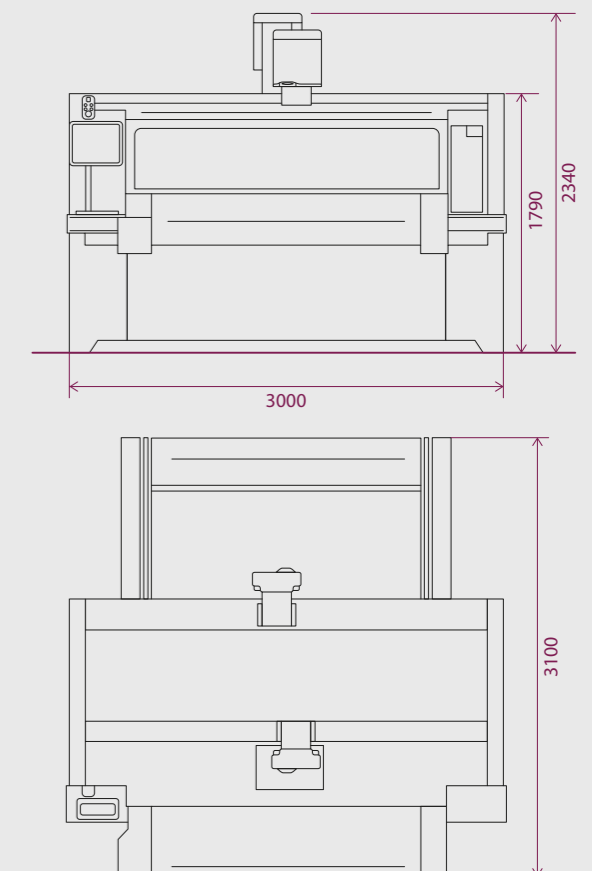
Movement on grinded precision guides and grinded re-circulating balls lead screws (ISO 3, max. error $\pm 0.005\text{mm}$).
Brushless motors with digital closed-loop position control.

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.



MODEL	Xi
CUTTING HEAD	2
CUTTING AREA	1800 x 800 mm
HIGH RESOLUTION CAMERA	4
PROJECTOR	1+1
DIMENSIONS	3000 x 3100 x 2340 mm
WEIGHT	2200 Kg

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



pioneers and dreamers

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9001 QUALITY
14001 ENVIRONMENT
45001 HEALTH & SAFETY