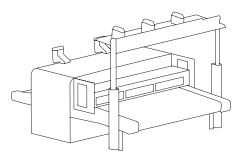
THE HIGHEST PRODUCTIVITY EVER, 24/7

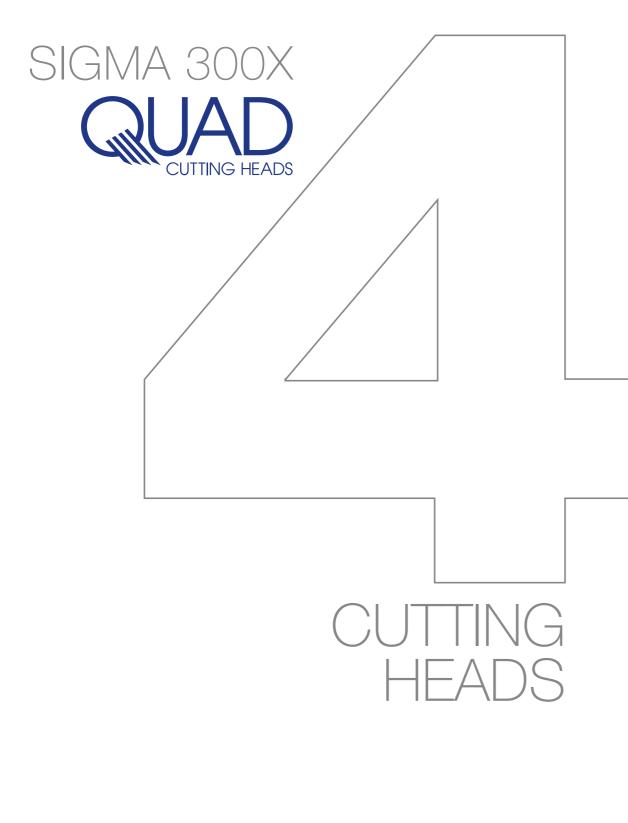


SIGMA 300X

MAXIMUM PRODUCTIVITY, FLEXIBILITY AND RELIABILITY







SIGMA 300X QUAD

THE HIGHEST PRODUCTIVITY EVER

The secret is not just adding cutting heads but be able to make them work synergistically. In 2006 TESEO introduces the first machine with **3** cutting heads which, thanks to an innovative software, manages the individual units in a continuous manner and without interference even in the same area of the leather, increasing the productivity of 90% compared to the same machine equipped with only 2 cutting heads.

The third head marked a turning point: in this decade, it has evolved and improved thanks to the experience gained with over 4.000 systems installed within the largest companies in the world, in various sectors such as footwear and leather goods, automotive and furniture.

CUTTING HEADS

4 HEADS

35 m²/h

330 PAIRS/HOUR

A valuable know-how that now, thanks to the new technology developed in 2016, the miniaturized components and the innovative materials, make, for the first time on the market, the adoption of the fourth cutting head possible. An exclusive to meet the growing production needs and contextual to the required flexibility that the fragmentation of modern markets imposes.



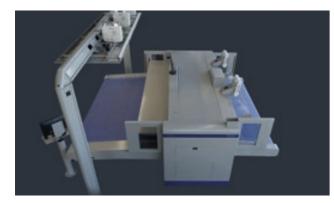


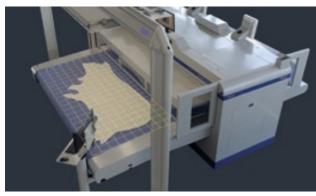


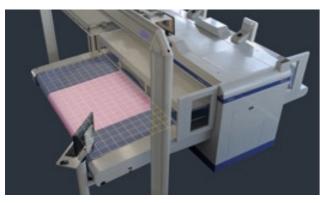


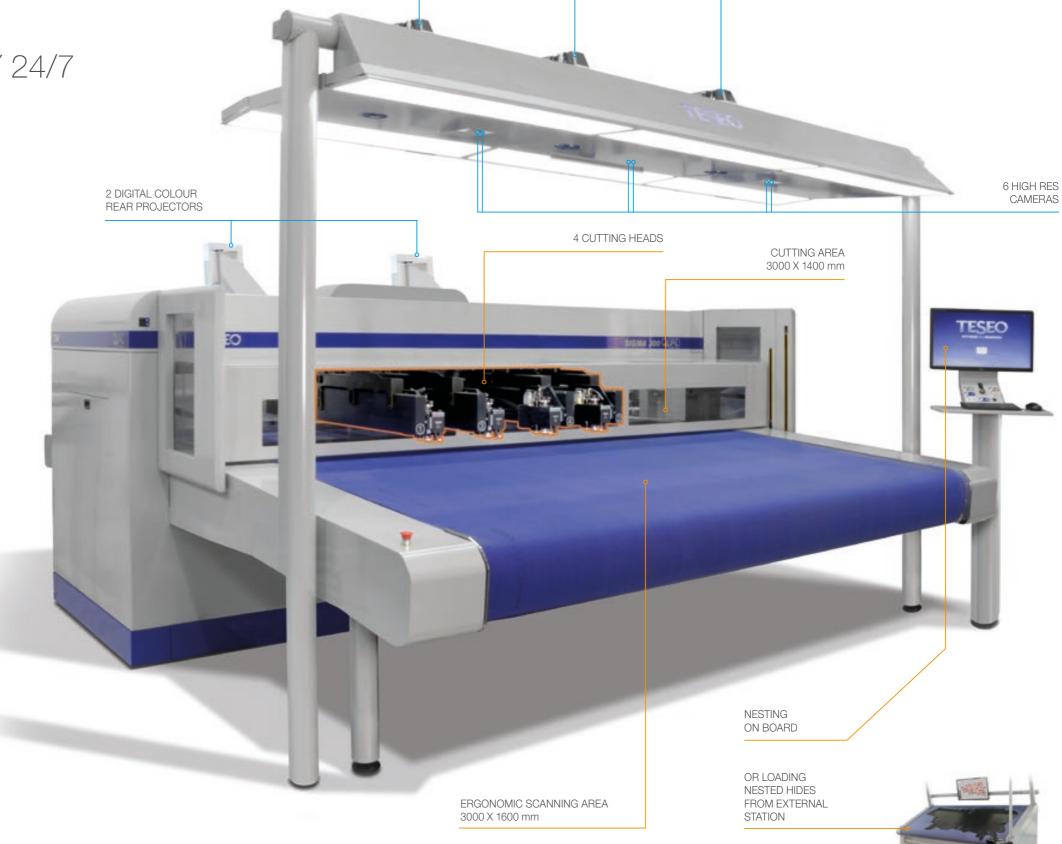
MAXIMUM PRODUCTIVITY, FLEXIBILITY AND RELIABILITY 24/7

Cutting system with a working area moving on rollers for continuous automatic cutting of leather and materials in rolls (synthetic and fabrics).









3 DIGITAL COLOUR PROJECTORS





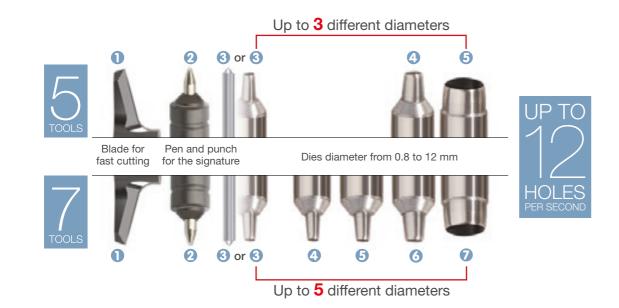


ULTRA COMPACT CUTTING HEADS

We concentrated the reknown reliability and performances in just 75 mm.

The willingness to adopt the fourth cutting head has stimulated the search for solutions designed to save space, so that the different heads could better interact. The result is an exceptional head, with **5** or **7** tools, that occupies less space (-40%).

But not only: the small size and the increased mechanical stiffness, allow this technological jewel a greater dynamism and an improved reliability.

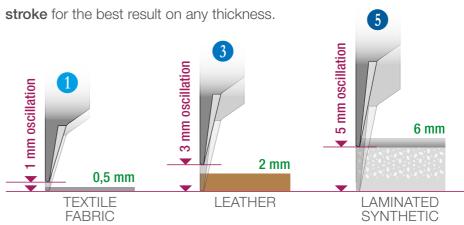


FAST AND ACCURATE CUTTING ON ALL MATERIALS

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



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





SINCE 1993

KNIFE FOR LEATHER

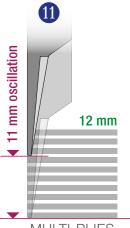
LOV

CONSUMPTION

AIR

Changing blade or oscillating knife in less than 45 seconds.

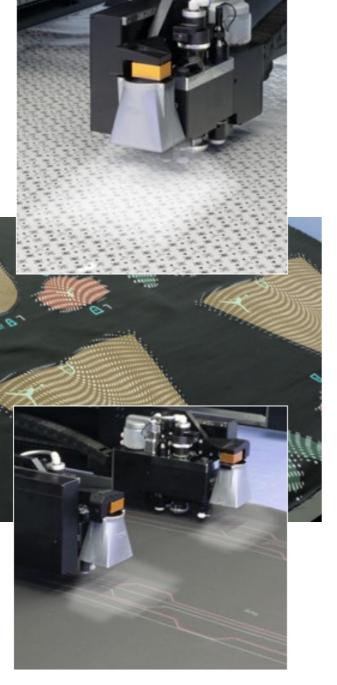
-3 TESEC



MULTI-PLIES



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 with absolute accuracy.

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



10 0 7

is a **dual optical sensor camera with powerful micro computer**. It processes 100 scans per second with 0,02 mm resolution.



Thanks to the **3D** vision, ARGHON is constantly capable of measuring the wear of the cutting carpet and the hide thickness, detecting variations in height.

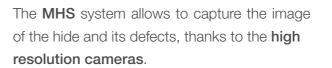


ARGHON recognizes the effective execution of cut and punches for an **automatic quality control**.

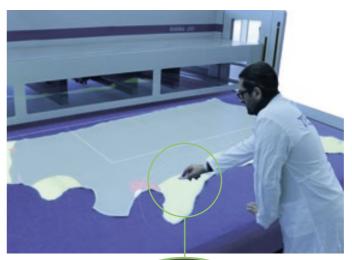


ARGHON recognizes details size less than **0.1 mm**. It enables a better recognition of **ROT** (Reference Optical Tag) for automatic hide re-positioning.

SCANNING AND QUALITY CONTROL













The scan takes only **3 seconds**, covers the entire working area and is static to ensure a perfect quality of the picture, making visible even the smallest detail of the leather texture (resolution 0.25 mm).

The mark of the quality areas, the direction lines of the leather and every reference traces are shown instantly on the hide, where it will be directly cut.

This ensures the highest accuracy of nesting and the absolute control in each following stage.





The exclusive **WOP system** allows to mark virtually the defects and the different quality areas, without leaving any trace on the leather.

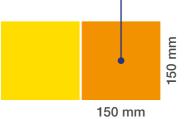
VACUUM SYSTEM THE POWER IS IN THE AIR

The vacuum surfaces consist of **independent and dynamic small sectors (200)** of 150x150 mm. They are led 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.

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



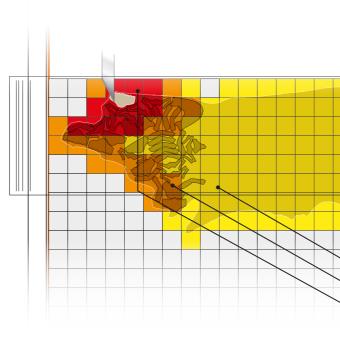
WER SIDE

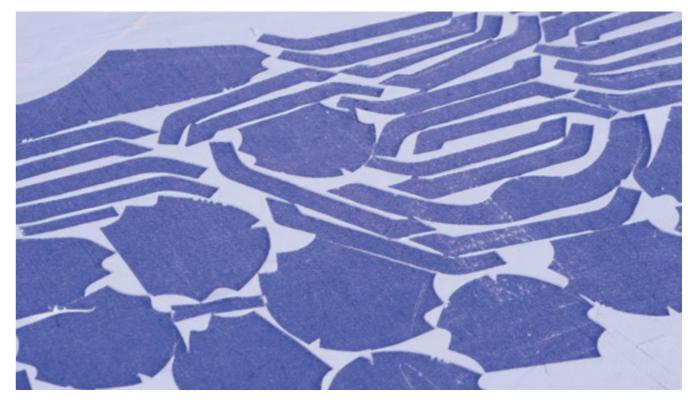


INTELLIGENT

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.

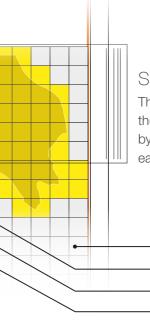
ONLY IN TESEO CONVEYOR SYSTEMS THE VACUUM ALWAYS FOLLOWS THE CUTTING HEAD





- 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 material.



SUCTION POWER

The total or partial activation of the suction power, is controlled by the microprocessor inside each DCV valve.



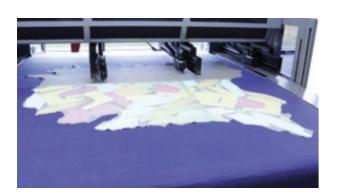
ENGINEERED FOR LEATHER CUTTING

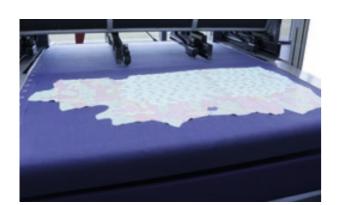
CUTTING OF MATERIALS IN ROLLS, FABRICS AND SYNTHETICS

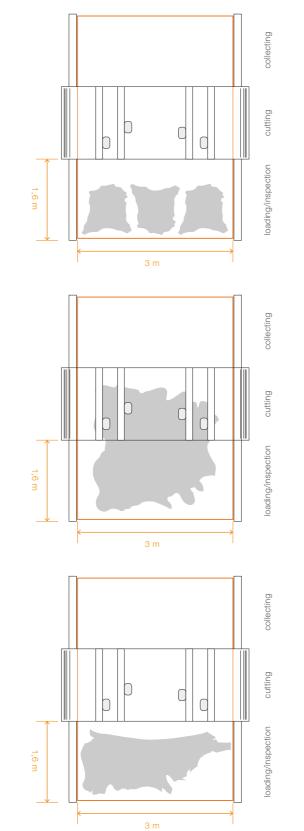
FROM THE CUT COMPONENTS TO THE SIZE, UP TO THE ERGONOMIC INCLINED SURFACES FOR LOADING AND DISCHARGE: ALL IN SIGMA IS DESIGNED TO EASILY WORK THE HIDE IN ALL ITS FORMS AND DIMENSIONS The work surface with moving belt on conveyor makes it ideal for the cutting of materials in rolls. The material moves on automatically and continuously; auto-nesting to maximize material consumption. The width of the work surface (3000 mm) allows to simultaneously cut **2 parallel rolls** for an even higher production.

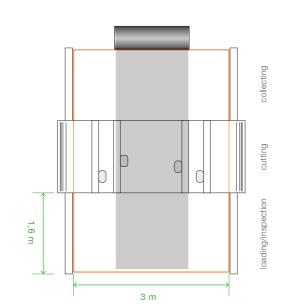
With 4 cutting heads available, you can cut with 2 heads on each roll.

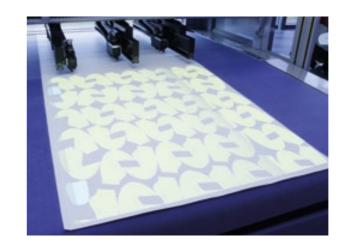
The need to cut even **3** mt wide hides, or more hides at the same time, has led us to design and build appropriate size machines, even if it means going beyond the technical limitations of building materials: surfaces and conveyor that allow a fast and easy processing.



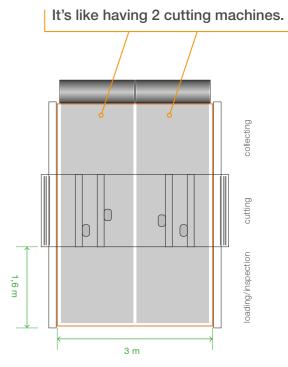


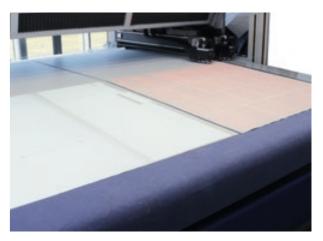










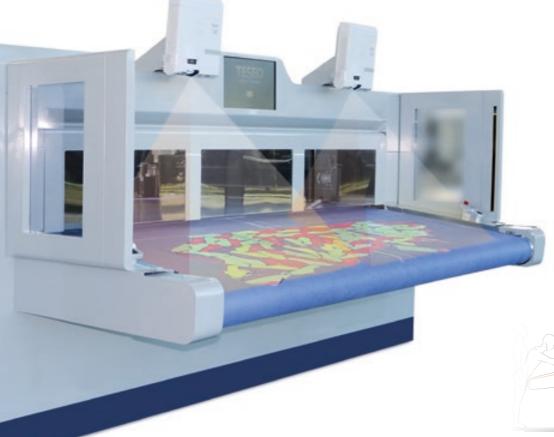


UP TO 10 LAYERS

Maximum precision and cutting efficiency for materials from 2 to 10 layers.

ASSISTED COLLECTING OF THE CUT PARTS

High brightness color projecting system directly on the hide to make the activity of nesting and in the collecting of the cut parts faster and easier.

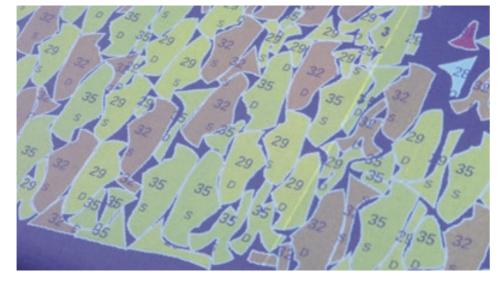


Large in size but accessible, on a human scale

ERGONOMIC

size 28 size 31 size 32 size 35

COLLECTING the cut parts is easier and faster when you can separate different items or different sizes by their colour, you also avoid errors assembling the product.



LESS NOISE MORE COMFORT



friendly and healthy working environment for the operators.



Automatic opening and closing of the protection cover

THE MOST EFFICENT NESTING IN THE WORLD





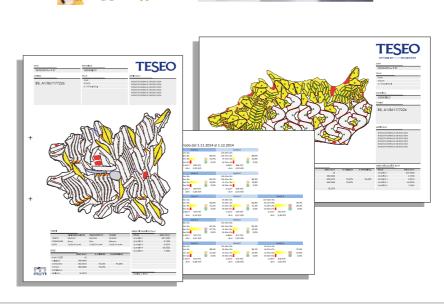


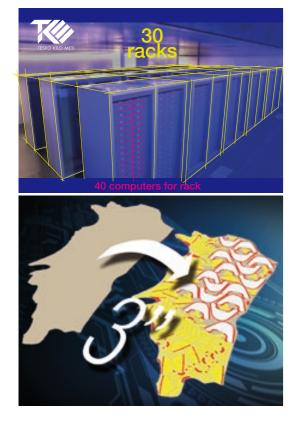
As pioneer and inventor of the first automatic nesting for leather, since 1996 Teseo's algorithms it's the most sophisticated and efficient on the market. Compared to the others nesting systems it can guarantee up to +6% in the saving of leather.













AUTOMATIC LEATHER NESTING WITH TESEO CLOUD SYSTEM

With the **NEMESI** service TESEO gives the possibility to use greater computing power, with 64 dedicated computer working simultaneously, instead of the power of a single PC. The customer connects to TKM, a network of 1000 online computers in our HQ, to obtain a better yield (up to 3%), a more efficient and faster nesting, so you can nest a full hide in less than 3 secs (instead of 60 secs).





RTM (Real Time Monitor) is an application that, through the intelligent selection of data, allows you to monitor in real time the progress of the production on any device you have: computer, smartphone or tablet of any brand and with any operating system.



Detailed and customizable statistics reports, with graphic layouts, can be produced and printed after any cutting job is completed.

OEE reports to keep a constant and efficacious productivity of the cutting equipments.

SUPPORT ONE TO ONE DIRECTLY ON YOUR SYSTEM

We are constantly at our customers' side in more than 67 countries with 10 different languages.

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

SIGMA 300X technical sheet



112.00	
CUTTING AREA	3000 x 1400 mm
SCANNING AREA	3000 x 1600 mm
WORKING AREA	3000 x 3000 mm
HIGH RESOLUTION CAMERAS	3 + 3
PROJECTORS	3 + 2
DIMENSIONS	3950 x 5030 x 3280 mm
WEIGHT	3500 Kg

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



SIGMA 300X 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 **upgrade your business**.

That's where TESEO comes into play.

SIGMA 300X meets the Industry 4.0 requirements for a SMART factory

SMART PRODUCTION:

SIGMA 300X 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).

SMART ENERGY:

CONSUMPTION

AIR

ENERGY SAVING

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

High performance as well as security and improved energy saving.





ISO 9001:2015

Certifies the Quality of the company in each of its process, in order to increase the efficacy and efficiency, to ensure a Quality product and obtain the highest level of Customer satisfaction.



ISO 14001:2015

Obtaining Environmental certification means the commitment to limit environmental impact and reduce emissions, encouraging recycling and all the good environmental practices for a sustainable development.



ISO 45001:2018

A company certified according to this international standard adopts an organizational model that ensure Safety and Health at work, allowing employees to operate in the best conditions.

