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NEK PLUS

COMELZ



THE CUTTING
EDGE COMPANY

The best hide digitization tool has evolved



ADJUSTABLE WORK AREA

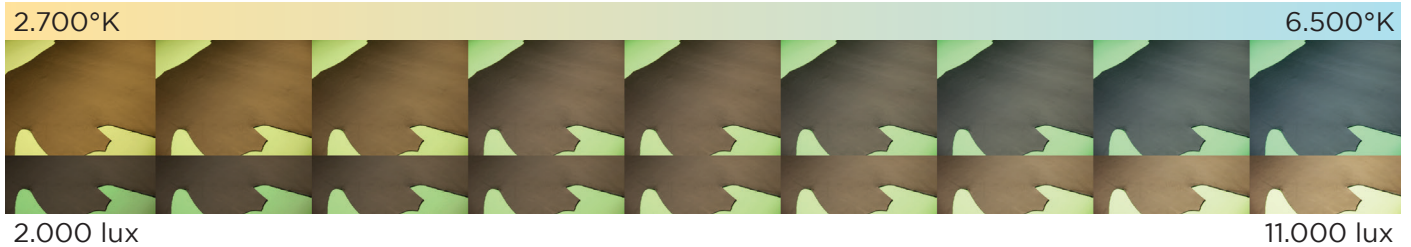
The entire work area can be tilted.

A motorized system can also lift or lower the work area in order to compensate the differences in height of the operators and/or to allow a close-up inspection for the most demanding applications. Like the light system, the height can be stored and recalled based on the operator, material, order, customer, etc.

ADJUSTABLE AMBIENT SHIELD

Independent sliding bulkheads to shield of the work area from unwanted external lights.

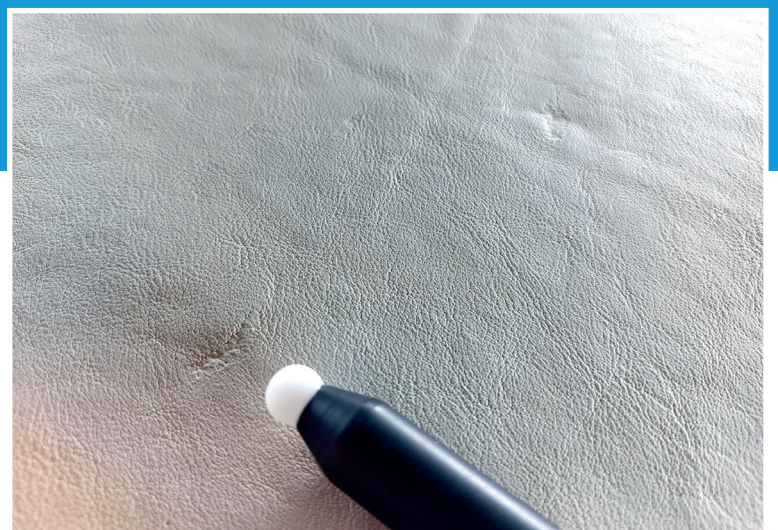
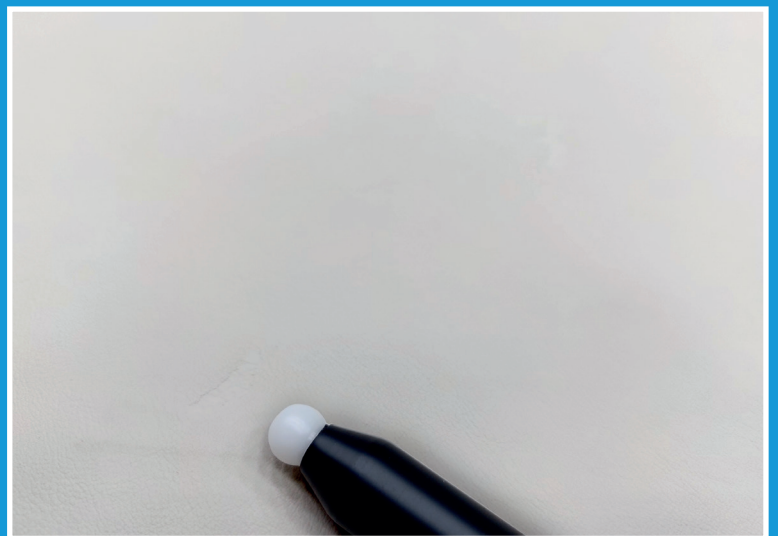




LIGHT SYSTEM

A unique light system:

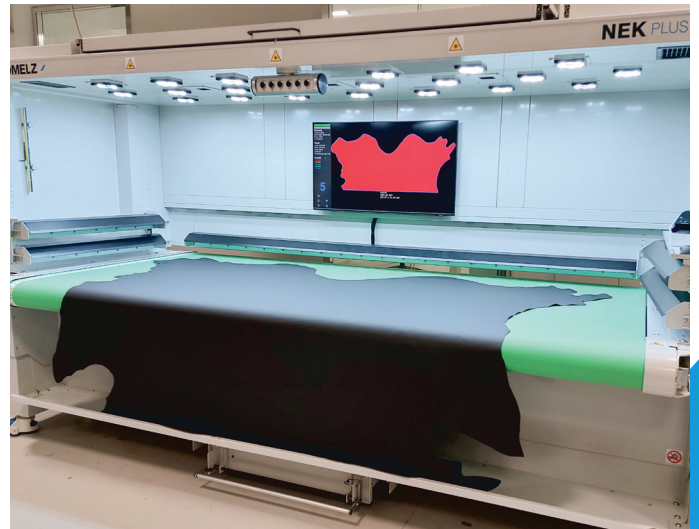
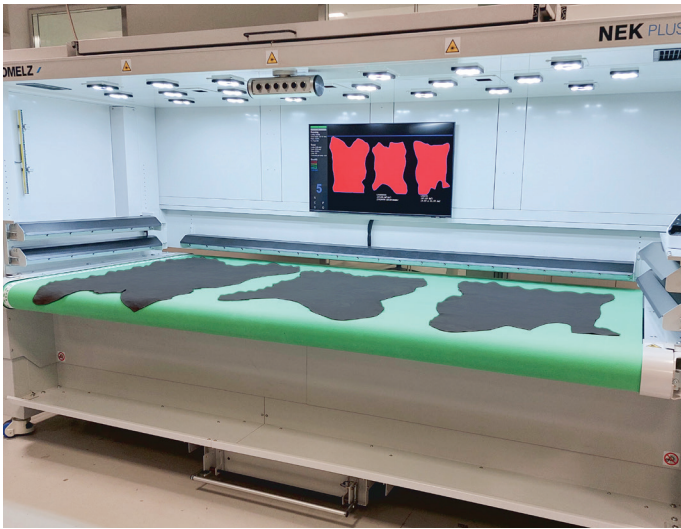
- A total of 600 individual power LEDs.
- 336 LED are used for diffused light.
- 264 LED are equipped with special focus lenses for directional light.
- 64 individually controlled dimmers.
- Adjustable hue (from 2700K warm white to 6500K cold white) for diffused light.
- Antiglare system for an ergonomic work environment even after extended periods of time.
- Different configurations available for different types or colors of hides.
- All configurations can be stored and recalled.
- With this unique, innovative patent pending system it is possible to illuminate every area of the hide from multiple directions allowing to detect defects that before was possible only when the hides were placed under stretch conditions and in a highly tilted position that is non-ergonomic for the operator.



SINGLE OR MULTIPLE HIDES

The same machine can process single large hides for the automotive or furniture sectors or multiple smaller hides for the shoe/leather goods sectors.

An adjustable vacuum system can be configured for every type of hides..



INPUT COMMANDS

All functions can be controlled by a variety of physical or logical commands that can be customized. Quick physical commands are placed on a “periscope” ergonomically placed in front of the operator, other physical commands are placed on the side of the machine. Quick logical commands can be recalled by “gestures” with the marking digital pen, other commands are available through the on-screen menu.



MARKING PEN

The marking of defects, quality areas, cut direction, and all other characteristics is completely digital. Our digitizing pen is extremely accurate, fast, and simple to use thanks to a “single-button” operation.

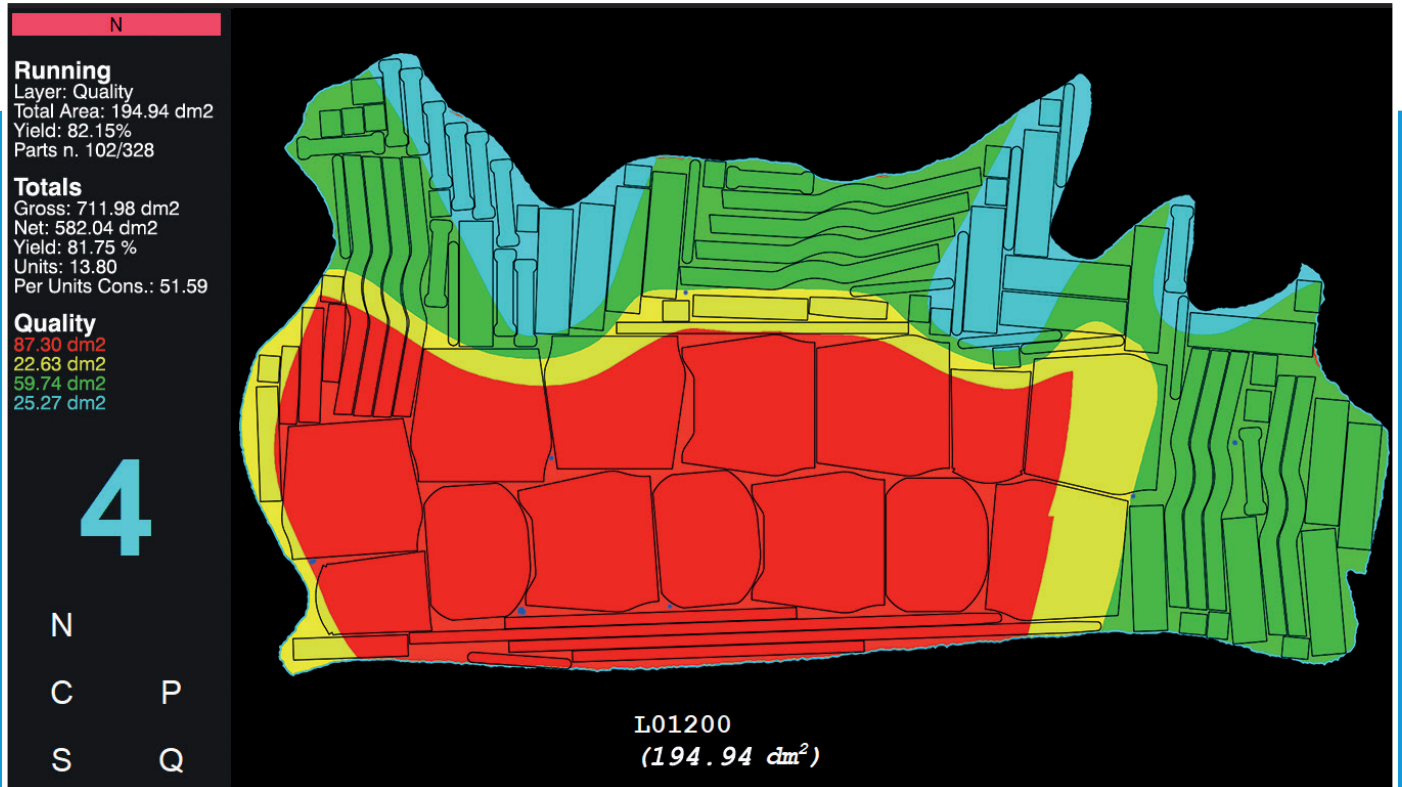


DIGITIZATION AND NESTING

Hide marking only (automatic nesting is carried out directly in the machine in real time and in parallel with the cutting).

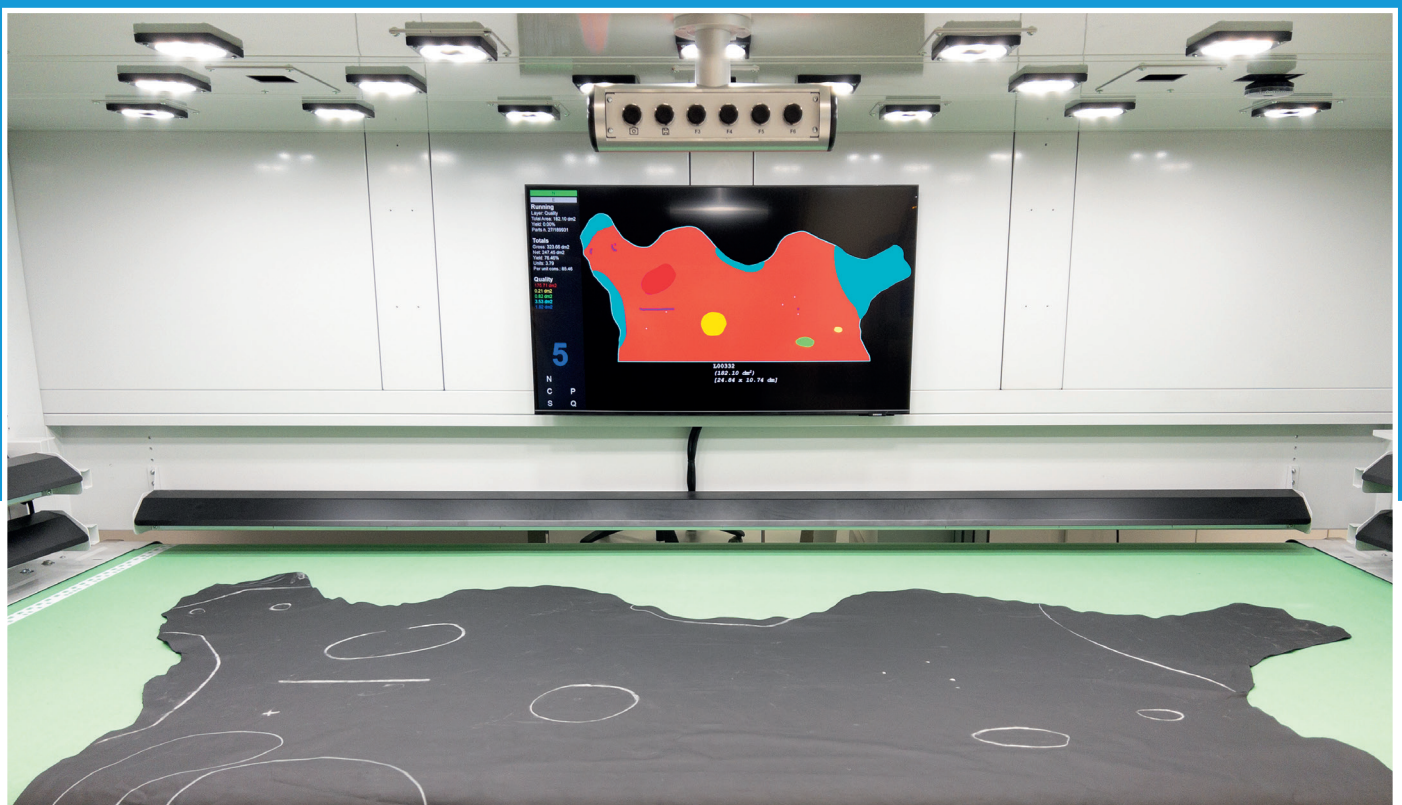
Hide marking (defects and quality areas) and integrated **Comelz Nesting engine** for piece nesting in different modes (manual, manual with automatic completion, automatic parameterizable).

Measurement/classification of hides and consumption calculation (simulations of cutting one or more hides).



CHALK DETECTION

An optional software can automatically detect defects of hides pre-marked with chalks or crayons .



LASER PROJECTORS

Three last generation laser projectors are used to display on the hide the defects marked by the operator.

We use laser projector since they are the only way to display something on a highly illuminated work area. Laser projectors are also more accurate than regular projectors.



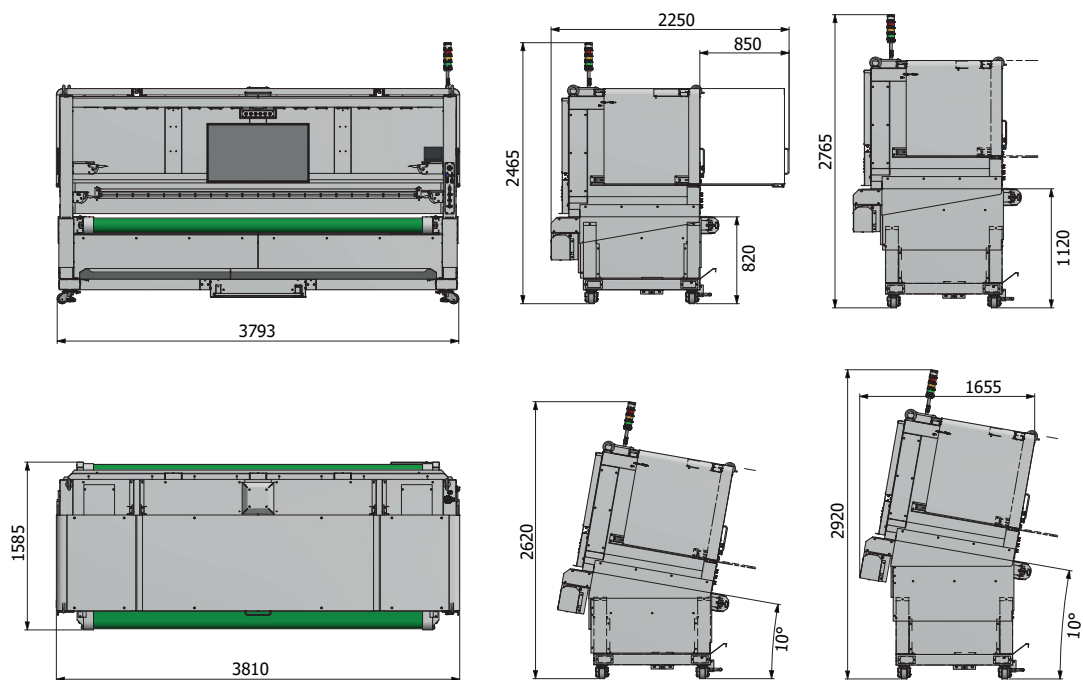
VISION SYSTEM

A unique vision system of 8 industrial cameras allows for an instant and accurate detection of the hide and of the marking pen. The high number of cameras, thanks to small vision angles, improves the accuracy when detecting hides not perfectly flat. Thanks to the short distance from the work area there is no need to recalibrate the machine frequently.



TECHNICAL DATA

Working area (W x L) mm	3.000 x 1.400
Vision resolution	0,5 mm
Maximum angle of view	22°
Maximum illuminance	11.000 lux
Power supply (three-phase+N)	400 V - 50/60 Hz
Maximum power consumption	3 KW
Net weight	1.960 Kg



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