



*The Starsplit machine with automatic feeding system in position.
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Gemata introduces revolutionary splitting machine

A new splitting machine is now available to tanners that can handle wet blue, limed/fleshed, pickled or dried bovine hides and goat- and pig-skins.

Designated the Starsplit by Italian machine builder Gemata, its major innovation is a newly developed automatic feeder system. This means that specially trained operators are no longer required as the skins can simply be placed on a belt that automatically feeds into the machine. Feed-in speed is constant, a fundamental necessity to achieve uniform substance.

Spreading of the leathers is controlled; the machine without the spreader/feeder will show a difference of between 0.4 to

0.5mm between the midpoint of the hide and its flanks whereas when used with the spreader/feeder this difference is 0.2mm.

Further, with the spreader/feeder in position, substance of the grain is more uniform at 2.0mm to 2.2mm instead of 2.3mm to 2.5mm usually achieved with conventional splitting machinery.

The Starsplit system also facilitates the subsequent shaving process that often follows splitting. Another advantage, as a result of the uniformity of the grain split, is an increase in the weight of the split amounting to 15%, leading to considerable financial savings. With environmental concerns increasingly important in today's production of leather, the new machine reduces the volume of shavings and associated disposal costs based on more than 2kg savings for each piece of skin.

Automatic hydraulic action stacking machinery connected to the output end of the machine avoids interruption of the splitting process, thus eliminating loss of time that would reduce output. Developments in the future will make it possible for an automatic splitting line connection directly to the flesher.

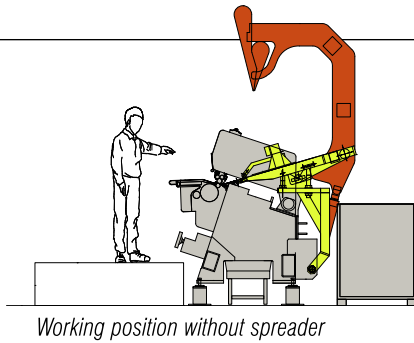
Enhanced safety with technical innovation

Safety has been assured: because of the automatic feeder, the Starsplit operator stands remote from the danger zone that can exist with the direct roller in-feeding associated with traditional splitting machinery.

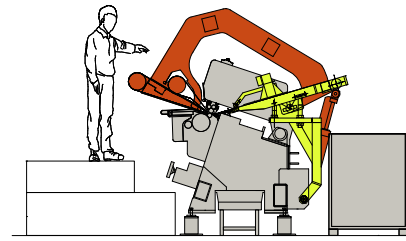
The machine's robust upper frame with its large opening allows access to the patented automatic opening of the band knife guide, protection of the knife cutting edge, independent control of the transport rollers, a double set of counter rollers above the transport roller detaching skins off the rear guide



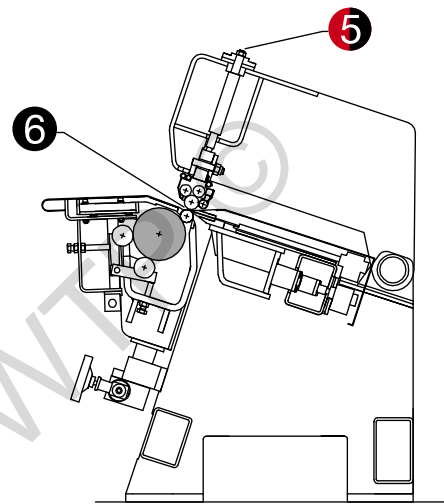
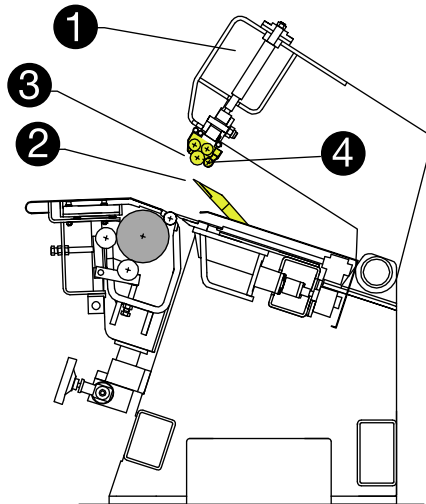
Knife guide with automatic opening.



Working position without spreader



Working position with spreader



- 1 Rigid upper frame with very large opening.
Frame working position controlled by precision worm screws.
Free access to blade, blade guides and feeding rollers.
- 2 Automatic opening of blade guide.
Easy knife guide setting independent from knife pushers.
Automatic device for knife edge protection.
Fast and easy knife change.
Gauge roller and ring roller drive with independent motors.
Electronic speed control with digital display.
- 3 Double set counter rollers on top of gauge roller to increase splitting accuracy.
- 4 Detaching roller on rear of gauge roller.
Hydraulic system to lift flanks.
- 5 Manually controlled gauge roller cambering with 6 independent adjustment point.
- 5 Automatic gauge roller cambering with 6 independent positions hydraulically adjustable from touch screen.
Hydraulic opening of upper frame, lower beam and feed table.
- 6 Ring roller scraping device.

- Programmable touch screen to enter working parameters.
Splitting thickness setting with 2 decimal points by electronic control.
Digital display.
Four step substance change programme whilst feeding skins.
Automatic knife advancement for precise and constant grinding.
Automatic tensioning of band knife with adjustable hydraulic pressure.
Inverter driven flywheel transmission.
Automatic device for grinding wheel infeed with possibility of manual control.
Independent adjustment of lower and upper grinding angles.
Hydraulic device to automatically detach grinding wheels when rotation stops.
Suction and filtering device for grinding dust extraction.
- Automatic feeding system of skins.
Automatic grain extractor for limed skins.
Crust evacuation conveyor.
Automatic stackers for grain and crust.
- Standard functions • Optional functions

roller as well as a device to quickly scrape any remaining skin residuals from the cleaning roller.

The band knife guide opens along the full splitting length, making knife change straightforward as well as the positioning of the knife pushers, and enhancing precision control of substance. Immediate and automatic protection by means of the knife guide take place when it is exposed. The knife is stationary whenever it is being sharpened, as well as during setting, cleaning and maintenance, for absolute safety. Transport rollers are controlled independently to enable speed increase to extend stretching the skins. The full-length automatic knife guide also simplifies cleaning the parts and removing matter from the inside of knife guide.

Rectilinear positioning with respect to the knife edge is maintained by the counter rollers. A new system allows positioning of the rubber-lined roller with respect to the untangling roller for splitting lime and wet blue material. It is also effective when splitting thicker skins and its subsequent major opening. The operator uses a patented device for the minute and automatic setting of the distance between the untangling roller axle and the scraper without disturbing the rubber-lined roller or the setting of the feeder.

Overall maintenance is reduced when compared with conventional splitting machinery and spares requirements are minimised. The Starsplit is available in working widths from 1600 up to 3600mm. ☺