

KUPER ACR-Speedstar



Crossfeed Veneer Splicer

D.B.P. and foreign patents

KUPER

The KUPER ACR-Speedstar

Innovative Technology

KUPER ACR-Speedstar for highest Quality Veneer Carpets

The completely new concept and design of the KUPER Crossfeed Splicer ACR-Speedstar is the result of 50 years experience in developing and building Veneer Splicing machines and a creative implementation of innovative technologies.

The KUPER ACR-Speedstar is the latest development of a Crossfeed Splicer producing so-called "endless" veneer carpets or preselected fixed measures from preglued rotary-cut or sliced veneer strips of different widths.



The glue spliced Veneer joint

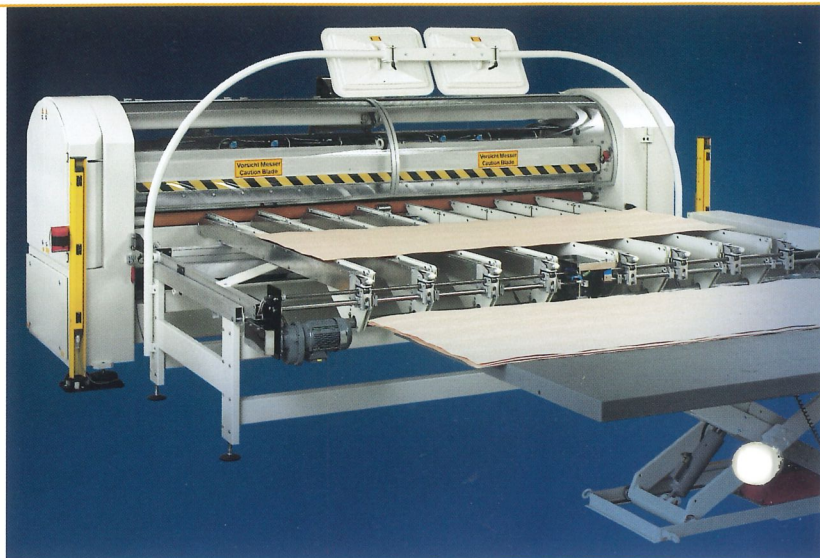
The glue spliced joint surely provides one of the highest grade quality of its kind which demands, however, a very thorough and precise preparation of the veneer packs. With the KUPER concept of the double knife guillotine and the independently working glue application machine KUPER KLM the necessary precision of this preparation is guaranteed. With the ACR-Speedstar KUPER offers an economic solution for a perfect and highly efficient production method for the glue spliced joint.

KUPER ACR-Speedstar

The operator feeds the prepared veneer strips into the machine. The alignment of the veneers into the hearing section is done photo-electronically, i.e. Laser-cells register the position of the veneer strip and give impulse to the SIEMENS Motion Control® which controls the servo drives. This method of positioning is 100% exact and considerably faster than a purely mechanic process. The main advantage of this system is that the positioning is achieved without physically touching the veneer sheet, i.e. damages to the veneer joint are excluded. Sensitive working friction shafts are pulling the veneer strips tightly together which are then spliced within the extremely narrow heating zone.



Winner of
"The Challengers Award 2002".



Stacking system of the KUPER ACR-Speedstar.

Technical data

| | |
|---|------------------------|
| Max. working width in grain-direction | 3200 mm/ 3600 mm |
| Min. working width in grain-direction | approx. 600 mm |
| Stacking depth max. | 1400 mm/ 2100 mm |
| Width of veneer strips across the grain | from approx. 60 mm |
| Veneer thickness* | approx. 0,25–1,2 mm |
| Feed speed | approx. 30 m/min. |
| Heating up time | approx. 10 min. |
| Pressing time adjustable | 0,2–2 sec. |
| Temperature of heating beam | max. 220° C |
| Connected load heaters | 6,4 kW |
| Total connected load | 18 kW |
| Operating voltage standard | 400 V, 3Ph, 50 cycl. |
| Compressed air connection | min. 7 bar |

* different thicknesses on request

All advantages at a glance.

1. Innovative Technology:

The completely new concept and innovative technology is applied with the KUPER ACR-Speedstar to splice parallel-cut and pre-glued veneers to preselected layon-sizes.

2. Precise Alignment:

Electronic regulation drives with laser sensors achieve a precise veneer alignment. This pinless alignment system is controlled by the SIEMENS S 7 and SIEMENS MOTION CONTROL and widely precludes damages done to the veneer edges.

3. Perfect Veneer Glueing:

Pneumatically controlled top-pressure units, segmented main beam and friction shafts plus hold-downs in the veneer transport system make it possible to also process wavy veneers.

4. Shortest Adaption:

For processing different veneer species and -thicknesses all parameters like joint-pressure, pressure time and the individually adapted feed speed are entered into the central touch-screen panel. All relevant data and parameter are stored. Long adaption time and errors through the personell are avoided.

5. Integrated Veneer Clipper:

The integrated veneer clipper cuts the "endless" veneer carpet to the pre-selected layon-sizes. Alternatively, by preselection of the number of joints also book-matching is possible.

6. Fully automatic Stacker:

The spliced layons are automatically and precisely stacked in the stacking device behind the machine.

7. Modern Data-Transfer:

All production data can be sent to or received from your PC through Fast Ethernet Interface

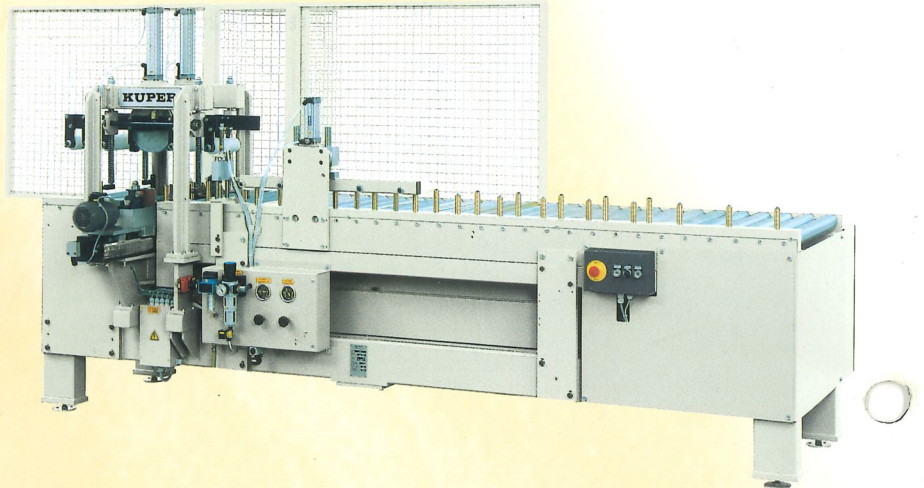
8. Easy maintenance:

The pressure beam is turning up for easy access to the heating area. This is one feature of the consistent concept of easy maintenance of the ACR-Speedstar: Widely maintenance-free components and quick and easy change of wear-and-tear parts with quick-out fastenings.

KUPER. Precision and quality made in Germany.

KUPER KLM

For the exactly dispensed application to the edges of the veneer bundle the KUPER KLM is recommended. Alignment and transport of the veneer bundle as well as the absolute precisely dispensed glue application is done automatically. These perfectly preglued veneers after drying of the glue can either be processed immediately or can be stored for later usage.



KUPER FL/Innovation

The KUPER FL/Innovation with its integrated glueing device can also process veneers which have been preglued on the KUPER KLM before. The KUPER FL/Innovation can be operated at an even higher feed speed then.



KUPER

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Subject to design modification.