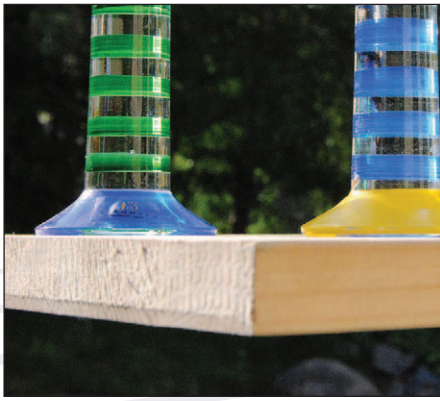




## GLUE-LAM APPLICATION SOLUTIONS



Various products where timber lamellas are connected/glued together on top of each other by applying the adhesive on the horizontal part of the timber material. The glue will be applied separately by a continuously running curtain.

## Advantages

of separate glue-lam application system

- Can deal with all relevant adhesive systems
- Applicable for fast feeder lines
- Various safe-guard features, to quality assure the production of load bearing constructions.
- Applicable for various widths
- All parts available from stock for quick spare-part deliveries
- Optimize control system to help the operator to produce rational batches

## ■ Choice of materials and components

We have designed the equipment for long lasting reliable performance. This means that we use the state of the art materials and components like:

- High-end stainless steel qualities
- Ceramics
- High value rubbers and plastics, like Viton, HEPDM, PTFE and PEAK
- Control systems of Mitsubishi/Siemens
- Operator panel with integrated LCD touch screen
- Valves for the hydraulic system of Sun
- Components are standard Mixon stock parts or bespoke components
- Very advanced coatings to preserve the materials from acid attack



## Application areas

for glue-lam, separate application

Various products where timber lamellas are connected/glued together on top of each other by applying the adhesive on the horizontal part of the timber material. The glue will be applied separately by a continuously running curtain.

The products which are produced according the principle are:

- Glue-lam beams
- Non-bearing glue-lam products
- Other products on demand

## Adhesive systems

for separate applications

Our solutions deal with the following adhesive systems:

- Two component systems, for separate application like MUF, MMF and .

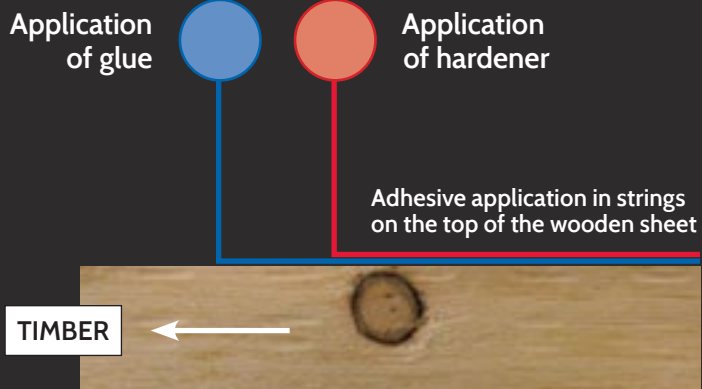


# The Mixon 2800

for separate glue-lam application

Mixon's system for mixing and dosing for lamina application is based on 26 years of experience.

In order to apply the adhesives fast, adequate and reproducible we use our reliable components and have completed the machinery with high-end control systems.



### ■ Dosage

The glue and hardener are dosed and regulated by ex-center screw pumps.

The glue and hardener are circulated through a spreader pipe in a reservoir. The glue/hardener taken away from the system for application is replaced automatically.

The level sensors over the reservoirs over-view the required glue/hardener level and will compensate the used adhesive.

The system will supply the glue hardener in the dosage range between 100:50 up to 100:200, all depending on the needed mixing ratio.

### ■ Application

The application is achieved by two spreader pipes, normally with a width of 350 mm.

The system runs constantly during the production by two glue curtains. At the end of the day the reservoirs are covered with locks, in order to prevent the adhesive to dehydrate. The spreader pipes can easily be removed from the machine and need to be cleaned with warm water, to prepare for next day's production.

For lamellas which should be without glue the machine simply blocks the running curtains, in such a manner that the lamella can pass the machine without application of glue and hardener.

A glue application program helps the operator to apply the glue on either standard sizes glue-lam beams, or on tailor made project beams.

### ■ Control system

A separate operator panel placed at the working position of the operator, will allow to make all needed application adjustments. Adjustments will be visible direct for the operator.

The panel is equipped with an LCD touch screen, with simple "windows-like" menu's for easy changes of the

glue operation. By storing the application set-points in the memory, it's easy to recall the perfect input parameters by changes of let's say timber dimensions. This receipt handling will in all extent help the operator to quickly adjust the machine to new set-points, without losing valuable time to optimize the production.

### ■ Cleaning

As the system is designed for the separate application of glue and hardener, the cleaning of the machine is down to

an absolute minimum. Normally not more than 5 minutes per day are needed for some cleaning activities.

### ■ Option

The following options can be added to the standard solutions:

■ **Glue decrease program** to optimize the glue amount.

■ **Lamella counter** to support a variation of the lamella's without glue.

■ **Lamella speed control** to adjust automatically the glue spread.

■ **Temperature control** of the lamella to safe-guard that the lamellas are over 15 degrees Centigrade

## FAQs

If you have other questions please contact us or find more information on our web site [www.mixon.se](http://www.mixon.se).



*How can I be sure that the machine will supply the required glue spread?*

■ The machine is equipped with flow-meters, so the PLC in the system will over-view the applied glue spread.

*Each fourth lamella should pass the application system without applying adhesive, can this be arranged?*

■ Yes, the control system of our solutions provide the possibility to indicate which lamella should pass by without application.



*When I change glue system, do I need to change the whole machine?*

■ No normally the range of the mixing ratio will allow the use of a new mixing ratio. In worse case we need to change one or both pumps.



*Spare parts, how can Mixon help me?*

■ The absolute majority of the components we use in our machines are on stock at Mixon.

After you have placed the spare part order you will normally receive the spares within 24 to 48 hours, of course depending on your coordinates.



*Do I need to cool the application, due to production circumstances with a high temperature?*

■ No, cooling will not improve the performance of the machine nor the adhesive.



*My production is on the other side of the world, what kind of quick assistance can Mixon offer?*

■ Normally we can assist direct per phone or email. However we recommend the customer to invest in the option "remote control". This gives us the possibility to look into the program of the PLC by the www. This is a very quick and free service we can offer our customers to address issues.

Further we recommend our customers to agree on an annual preventive service, which normally gives full production availability during one year after the service.



# Specifications

of our solutions

## ■ Glue-Lam Application

Model	Capacity (l/min)	Note
Two component solution separate application		
Mixon 2825E	5,0 – 15,0	Basic version
Mixon 2855E	5,0 – 15,0	Full control system
Mixon 2856E	10,0 – 30,0	Full control system

## ■ Ratio & Measures

Mixing ratio	100:50 up to 100:200
Application width	Standard 350 mm
Weight	about 180 kg
Dimensions (l x b x h)	1.200 x 600 x 1.200 mm

## ■ Needed connections

Compressed air	6 bar, 100 l/min
Warm water	40–45 °C, at 6–8 bar
Electricity	400 V/50 Hz/3-phase/ 10 A or 230 V/50 Hz/3-phase/ 16 A

Mixon | Separate Glue-Lam Application | 2800 Series