

CLEANING INDUSTRIAL GLUE COMBS FOR PLY WOOD OR WOODEN TRUSSES

REQUIREMENTS

In the production of wooden trusses - which are mainly used as a static and visual element in building projects - a number of wooden boards are provided with a profile on their upper and lower sides and then glued together.

Wood glue is applied to the profile with the help of so-called glue combs, then hardener is applied with a hardener comb of comparable geometry. The tines of the glue combs apply the glue in very precise doses. The individual boards are then placed on top of each other by machine and pressed together. These combs are made of V4A stainless steel.

During production, the glue and hardener combs must be cleaned regularly, as they become clogged with drying residue (see left-hand area of the picture below) and can no longer apply the glue evenly and in an exact position.



Glue comb, top left uncleaned with residue of dried adhesive

OUR SOLUTION

So far, and in the absence of alternatives, the glue and hardener combs are cleaned either purely mechanically or with a high-pressure cleaner. Both cleaning methods frequently entail deformation of the tines. The resulting alignment effort leads to substantial time delays, and the glue heads need to be exchanged regularly.

Due to the low pressure and high temperatures, ph-cleantec was able to achieve excellent cleaning results very fast, and without damaging the tines. This was achieved using a 1000 SR and the cleaner 1000 HDF. The glue combs could therefore be made available again for production much more quickly. Both the glue and the hardener are acidic media that can be neutralised with the 1000 HDF.

YOUR ADVANTAGES

- Efficiency/quality: Much faster and very thorough cleaning of the glue combs, tines and nozzles. The high temperature of up to 95°C helps to liquefy the glue and hardener residues and thus to wash these off easily.
- Nonetheless, no damage to the tines due to low pressure
- High temperature contributes to very fast drying of the workpieces.
- Mobility: Cleaning on site - the devices are mobile and self-sufficient - saves assembly, travel and reloading times.
- Occupational safety and environmental protection/chemicals: Only very limited amounts of chemicals are needed; this protects the environment, increases occupational safety and reduces costs.
- The waste water situation is considerably alleviated, as process water can be used in the cycle for up to 3 weeks. This saves chemicals and disposal costs.
- The hot cleaning devices can be used universally, e.g. for maintenance and servicing or for cleaning machines and parts.
- Cost-effectiveness: Significantly less working time for cleaning, as well as assembly, travel and reloading times; fewer chemicals and less waste water.
- Overall: Comparatively low investment and hardly any running costs, but high efficiency and top quality.

SEE ALSO

- Video Cleaning glue combs