



# PUR on surfaces.



## Surface application 1C

Dosing and application units for one  
component adhesives for surface application.

# Samples of 1C surface application.

OEST mechanical engineering offers dosing and application units for one component liquid media for the automatic gluing of surfaces of all kinds. Our flexible systems are used for the manufacture of various components, from small-sized dimensions up to large-scale applications. Mainly, polyurethane adhesives (1C-PUR) as well as PVAc glues (white glues) are being processed.



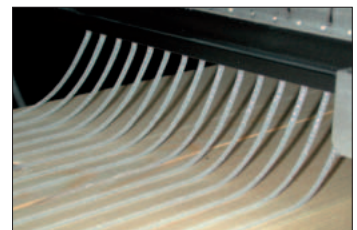
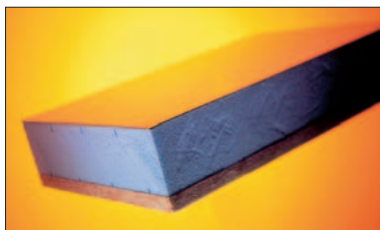
Designed for the manufacture of glued solid wood elements, such as:

- glulam
- DUO-/TRIO-beams
- cross laminated timber
- laminated scantlings
- other building panels



In addition, our systems are used for the production of sandwich element for, e.g.

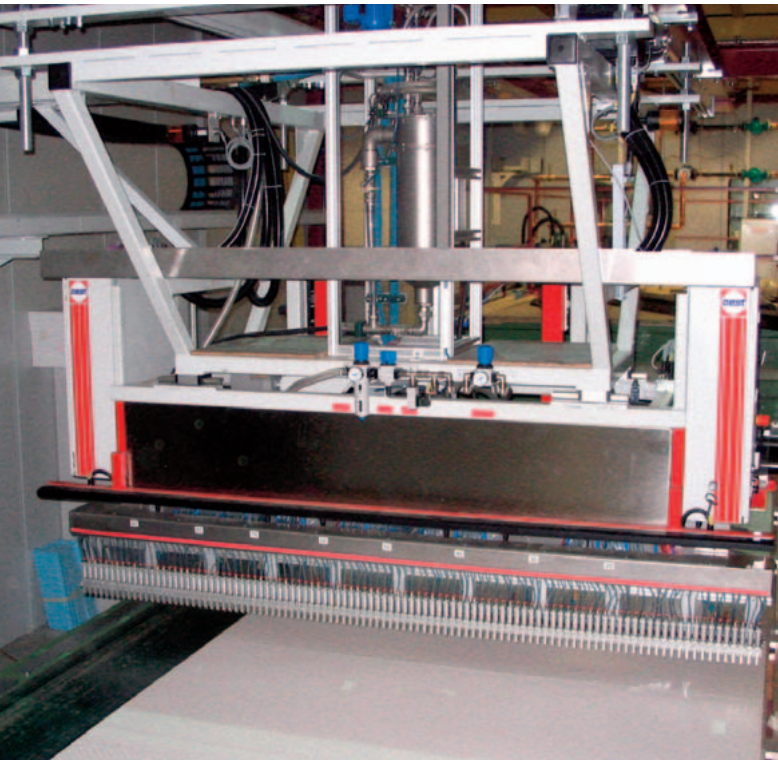
- caravans
- mobile homes
- cooling elements
- special doors
- building panels, etc.



Application head G with one material valve per segment and manually width adjustment.



# Customised solutions with Oest systems.



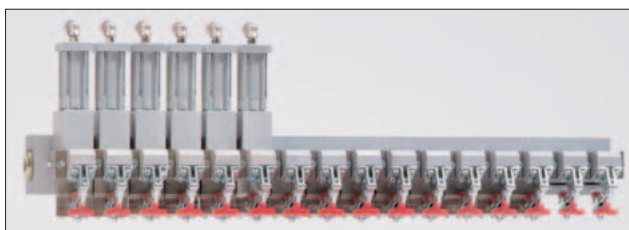
1C application system with moving gluing portal (work-piece is stationary). Application head FN with one needle valve per thread and automatic adjustment of working width.



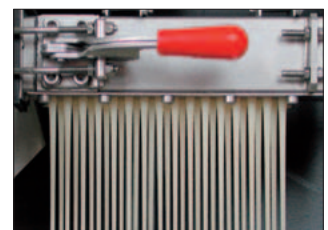
1C HYDROTOP dosing unit. Sophisticated dosing technology with HYDROFLEX pump.



1C dosing unit with gear pumps for continuous operations.



Application head FG with 3 threads for each segment. Manually adjustable (without valves) or automatically with valves.



ECOTOP application head for circulation pouring operation.

# Technical features.

## Special benefits of the ECOPUR, HYDROTOP and ECOTOP application units:

- precise dosing via adjustable parameters
- optimal distribution with minimum application amount through adhesive application with parallel threads
- low-maintenance material valves
- reduction of adhesive and cleaning costs due to precise and controllable adhesive application
- easy-to-use operating panels, according to requirements with text or graphics display or as touch panel control

### Available monitoring systems :

- glue application monitoring
- glue supply monitoring in the monitoring vessel
- pressure monitoring
- consumption counter
- container monitoring
- frequency inverter / fuse monitoring

### Accessories:

- container or barrel connection with silica gel filter
- material supply system for flexible positioning of the raw glue container
- remote maintenance interface
- networking with other control systems and host computers via bus systems
- cutouts without adhesive, manually or CAD-connected controllable
- water dosing and spraying devices
- adhesive heatings
- mechanisations, e.g. conveyor belts, feeding units, portals, height adjustment devices of application heads etc.
- special solutions

Type series	ECOPUR K	HYDROTOP	ECOTOP
<b>Adhesive</b>	1C PUR without abrasive fillers	1C PUR 1C PVAc chemically aggressive and abrasive products can be processed	1C PVAc slightly chemically aggressive and slightly abrasive products can be processed
<b>Dosing</b>	frequency-controlled gear pump	pneumatically or hydraulically driven HYDROFLEX pump	frequency-controlled gear pump or screw excenter pump
<b>Application mode</b>	start-stop adhesive application with adjustable width setting, for long continuous dosing processes	start-stop adhesive application with adjustable width setting, for short and clocked dosing cycles	circulation pouring operation with constant application width, for long continuous dosing processes
<b>Application heads</b>	<ul style="list-style-type: none"> <li>■ application head manually adjustable with 1 material valve per segment</li> <li>■ single valve for each thread</li> <li>■ single valve for 3 threads</li> <li>■ combination of various options</li> </ul>	<ul style="list-style-type: none"> <li>■ application head manually adjustable with 1 material valve per segment</li> <li>■ single valve for each thread</li> <li>■ single valve for 3 threads</li> <li>■ combination of various options</li> </ul>	<ul style="list-style-type: none"> <li>■ pouring head with fixed pouring width</li> </ul>

Dosing  
Mixing  
Application



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