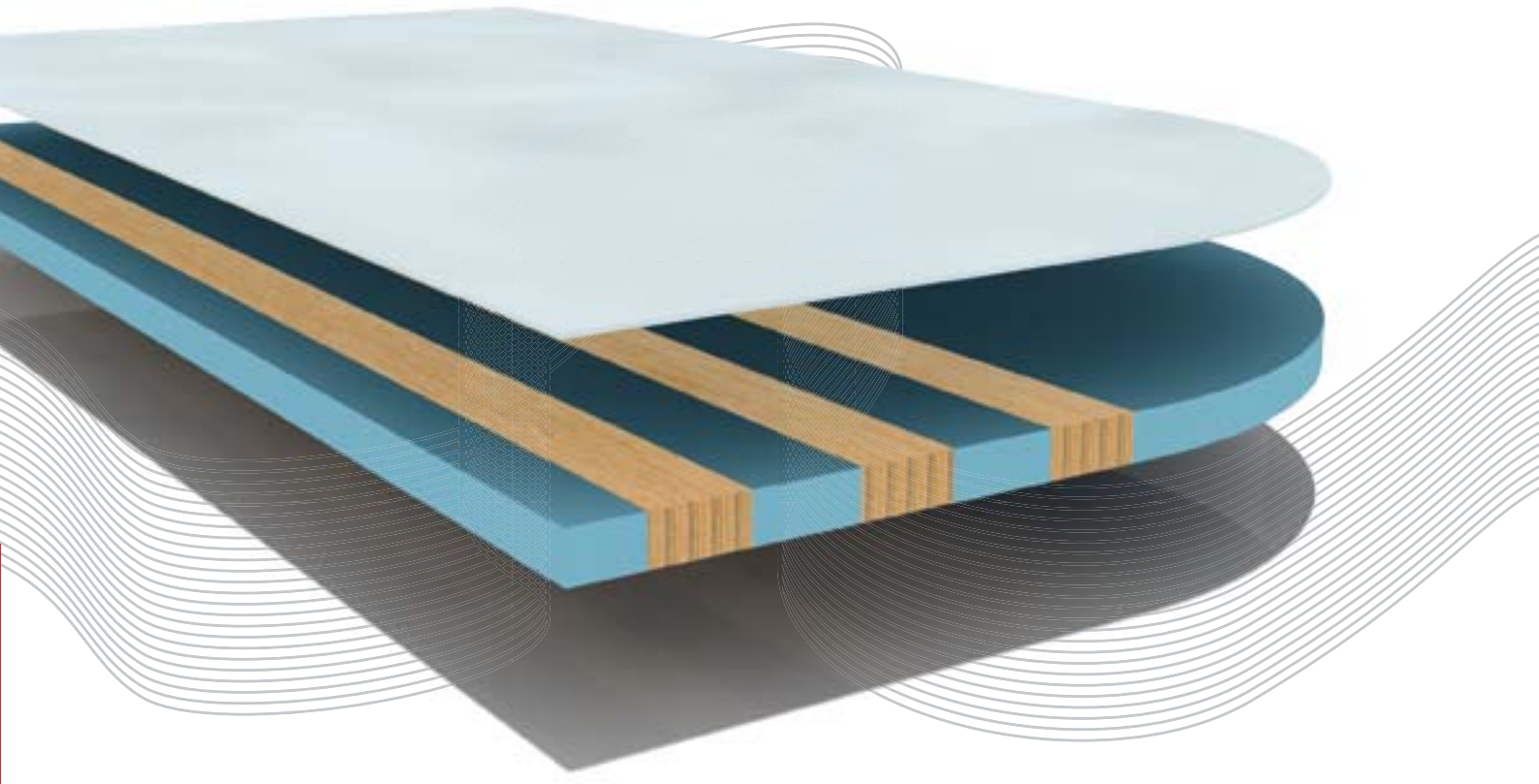
Adhesive dosing and applicaction units
for the production
of sandwich elements

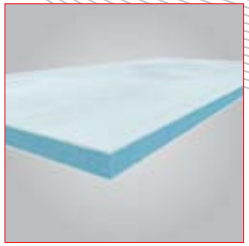


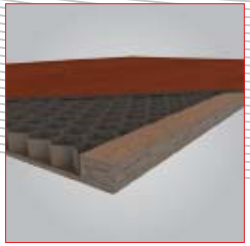
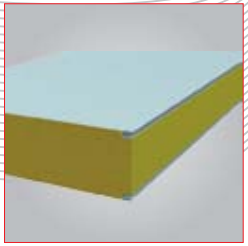
Applications

Composite panel	core material	covering
	rigid foam	Aluminium
	honey comb construct	Sheet steel
		GRP
	wood	Rigid-PVC
		Plywood
		HPL, CPL, HDF

Building panel	core material	covering
	EPS foam	Aluminium
	PIR foam	GRP
		Rigid-PVC
		Plywood
		HPL, CPL, HDF

Insulation panel	core material	covering
	EPS foam	Aluminium
	PIR foam	Chipboard
	Stone wool	OSB
	Glass wool	MDF
		Plywood
		gypsum plaster board
		gypsum fibre board



Industries

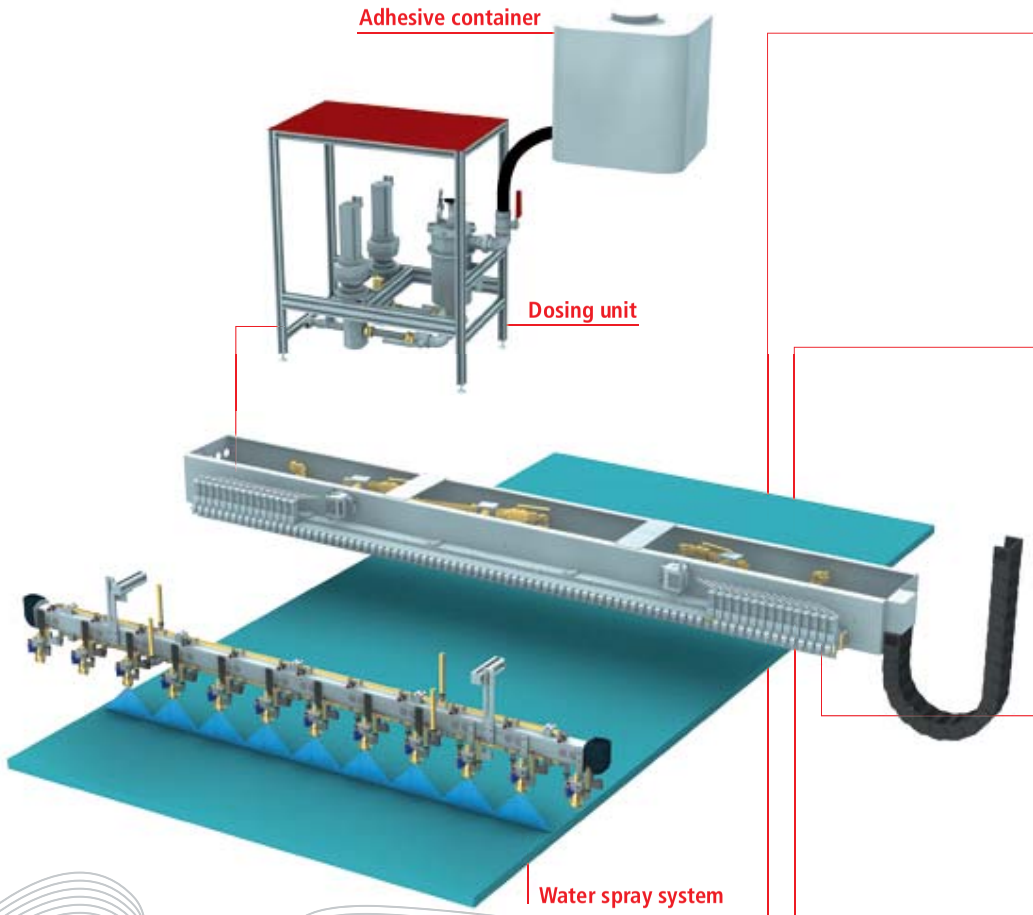
- furnitures
- windows
- entry doors
- insulations
- partition walls
- automotive
- caravans
- mobile homes
- parapet elements
- sanitary facilities
- garage doors
- ship building
- cooling facilities
- hall constructions
- cladding elements
- van bodies
- cabin compartments
- ceiling elements
- exhibition stands
- door panels








1C-PUR application systems



Pouring pipe

- Pouring pipe in combineable segments from 300–600 mm, with 1–2 adhesive valves per segment
- Thread distance 8–12 mm
- Manual adjustment of application width
- Manual closing of the extruder head via shutter bar

Tripple-outlet nozzle

- Per valve 3 PUR threads are laid on
- Thread distance 12 mm
- Automatic adjustment of application width in patterns of 36 mm
- Quick-release nozzle inserts
- Sealing of the extruder head via covering bath of sealing liquid

Combination of pouring pipe and tripple-outlet nozzle

- Combination of a fixed part with pouring pipe and an adjustable part with tripple-outlet nozzles
- Thread distance 12 mm
- Automatic adjustment of application width in patterns of 36 mm
- Sealing of the extruder head via covering bath of sealing liquid

Needle valve

- Single needle valve for each PUR thread, thereby highest process reliability
- Thread distance at single-row 26 mm or double row 13 mm
- Automatic adjustment of application width
- Automatic sealing of the valve through the valve needle

Areas of application

Application system for processing 1C-PUR adhesives for surface applications.

For application width up to 3.500 mm and feeding speeds from 10–90 m/min.

Technical Features

- Flexible connection to adhesive container or drum with silicagel filter
- Control receptacle with supply monitoring as intermediate buffer
- Consumption counter with warning limit to ensure adhesive container changes in time
- Frequency regulated dosing pumps for preccise dosing of adhesive
- Switch point control of adhesive valves through position measuring system and/or sensors
- Pressure monitoring in the dosing lines
- Different application heads, according to the type of production and desired degree of automation
- Self-developed, reliable adhesive valves for the application heads
- Switch cabinet and operator panel according to VDE-Standard

Accessories

- Material supply systems for flexible set-up of the adhesive containers
- Integrated remote maintenance systems
- Networking via bus systems with other controls and host computers
- CAD connection
- Adhesive heating in the dosing line for improving flow capacity at lower temperatures
- Monitoring camera for adhesive application
- Water spray systems to increase the reactivity of the PUR adhesive
- Mechanisations

Value and advantages

Approved and reliable technology, owing to experience of many years in the adhesive dosage and application technology.

- Optimal adhesive distribution at minimum application quantity, by adhesive application in parallel threads.
- Automatic control of the dosing quantity via adjustable parameters like application quantity, spreading width and feeding speed.

2C-PUR application systems

Areas of application

Dosing-, mixing and application unit for processing 2C-PUR adhesives for surface applications.

Systems for manual draw of mixed adhesive, for semi-automatic hand application, as well as for fully automatic application are available.

Technical Features

- Flexible connection to adhesive container or drum with silicagel filter
- Control receptacle with supply monitoring as intermediate buffer
- Consumption counter with warning limit to ensure adhesive container changes in time
- Self-developed high pressure metering pumps for accurate adhesive dosage
- Pressure monitoring in the dosing lines
- Mixing of the components with static-mixer
- Easy to clean extruder heads
- Switch cabinet and operator panel according to VDE-Standard

Accessories

- Material supply systems for flexible set-up of the adhesive and hardener container
- Integrated remote maintenance systems
- Networking via bus systems with other controls and host computers
- CAD connection possible
- Adhesive heating in the dosing line for improving flow capacity at lower temperatures
- Monitoring camera for adhesive application
- Mechanisations

Dosing pumps

- Self-developed high-pressure dosing pumps
- No dynamic sealings
- Maintenance friendly

Static mixer

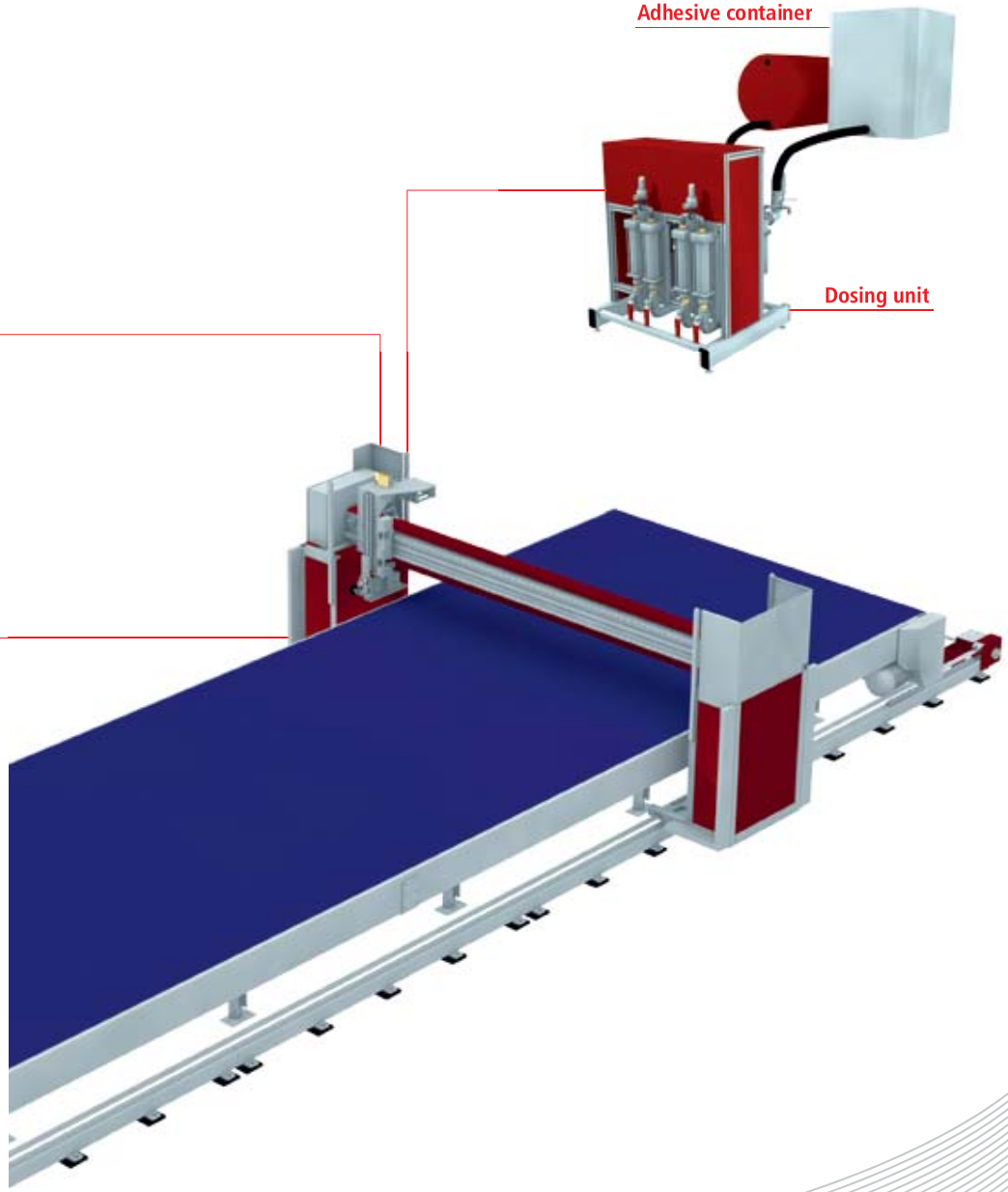
- One-way mixing elements
- Injection piece with self-developed valve technology

Surface application head

- For application width up to 300 mm
- Application width adjustment via change-able extruder inserts
- Easy to clean

Manual appication unit

- Single adhesive threads or surface adapter up to 200 mm available
- Easy handling by overhead suspension via balancer



Value and advantages

- Low cleaning effort, by engineered design of the adhesive application heads.
- Savings of adhesive and cleaning costs, due to accurate and controllable adhesive application.
- High production security by different monitoring devices along the entire dosing process.

Static portal

- The work-piece moves underneath the static portal
- For 1C-PUR Systems
- For work-piece width up to 3.500 mm
- Movement speed: 10–90 m/min.

Traveling floor-portal

- The application head moves meandering over the static work-piece
- For 1C-PUR Systems
- For work-piece width up to 3.500 mm
- Movement speed: 10–90 m/min.

Mechanisations

Traveling ceiling-portal

- The application head moves over the static work-piece
- For 1C-PUR Systems
- For work-piece width up to 3.500 mm
- Movement speed: 10–90 m/min.

Outlining portal

- The application head moves meandering over the static work-piece
- For 1C- and 2C-PUR Systems
- For work-piece width up to 3.500 mm
- Movement speed: 10–40 m/min.

Oest GmbH & Co. Maschinenbau KG
Robert-Bürkle-Straße 7
D-72250 Freudenstadt

Telefon: +49 (0) 7441 - 539 400
Fax: +49 (0) 7441 - 539 401
eMail: info.omb@oest.de
www.oest.de/maschinenbau