

# HIGH PERFORMANCE ISOBARIC DOUBLE BELT PRESSES



Isobaric Double belt presses (DBP) from HELD are the ideal production systems for the continuous production of roll, sheet and plate materials when using the through-feed method. Various processes, such as continuous laminating, compacting, consolidation, smoothing allow different materials to be processed, like films, fabrics, mats of fibers, granulates or powders.

The materials run through the press between two endless steel belts, in single or multiple layers.

At the inlet and the outlet, these steel belts are looped around steel drums.

Temperature and pressure to the conveyed materials are applied in the so-called reaction zone.

## HIGH-TEMPERATURE DOUBLE BELT PRESS

- Temperature up to 400 °C / 752 °F
- Isobaric pressure up to 80 bar / 1160 psi
- Speed up to 20 m/minute
- Reaction zone width up to 1600 mm / 63 inch (greater widths upon request)

## LOW-TEMPERATURE DOUBLE BELT PRESS

- Temperature up to 220 °C / 428 °F
- Isobaric pressure up to 80 bar / 1160 psi
- Speed up to 50 m/minute
- Reaction zone width up to 2200 mm / 86.6 inch (greater widths upon request)

## OUR TECHNOLOGY - YOUR ADVANTAGES

- The continuous process offers a high productivity in a short period
- Uniform pressure provides stress-free products
- Heating and cooling under maintained pressure
- Separately controlled temperatures zones enable material specific temperature profiles
- Excellent heat transfer allows high production speed
- The oil pressure cushion guarantees a safe and energy efficient production



# HIGH PERFORMANCE ISOBARIC DOUBLE BELT PRESSES



## APPLIED IN VARIOUS INDUSTRY SECTORS

### AUTOMOTIVE

Impact protection,  
seals, structural parts



### AEROSPACE

Tank linings, interiors,  
structural parts



### ENERGY

Batteries, fuel cells,  
rotor blades



### ELECTRONICS

Speaker cones, laptops,  
electrical insulation



### BALLISTICS

Protective clothes  
and helmets, vehicle armor



### CONSTRUCTION

Panel heating,  
insulation soundproofing



### FLOORING

Laminate, PVC  
and vinyl flooring



### FURNITURE

(Decorative) laminate,  
furniture films



## HELD TECHNOLOGY PARK FOR YOUR TRIALS AND PRODUCTION RUNS

- Raw material width up to 810 mm / 31.9 inch (DBP 1) and 1575 mm / 62 inch (DBP 2)
- Pressure up to 80 bar / 1160 psi and process temperature up to 400 °C / 752 °F
- Unwinding and winding equipment for processing multiple layers in the DBP
- Material can be trimmed and cut
- Perfect for sample production at calculable prices
- Cost-effective series manufacturing during product ramp up phase



## HELD - IMPRESSIVE SOLUTIONS FOR YOUR PRODUCTION PROCESSES

We are a privately owned company based in South Germany. Motivated by a strong pioneering spirit, we have been demonstrating our innovative strength in the field of isobaric double belt presses since 1975. Our goals have always remained the same:

„Thinking ahead more than anybody else to offer our customers innovative ideas to turn them into workable solutions that give them a competitive advantage every day.“

