held®
turning ideas...

High-Performance Double Belt Presses

... into solutions.

Experience and Know-How for your Success

Global Market Leader

Motivated by a strong pioneering spirit, HELD has been demonstrating its outstanding innovative strength in the field of isobaric **D**ouble **B**elt **P**resses since 1975.

HELD continues to focus on thinking further ahead than others – a philosophy that finds its expression in the claim *"turning ideas into solutions"*.

HELD designed and manufactured the world's first Double Belt Presses with continuous throughput, including the following:

- Isobaric DBP
- High-Pressure DBP with a surface pressure of 100 bar
- High-Temperature DBP with a heating temperature of 410°C
- High-Capacity DBP providing a production speed of up to 48 m/min

Special machinery tailored to customer's requirements has opened many new fields of application for isobaric Double Belt Presses.

Overview of Various Applications

AUTOMOTIVE

Impact protection, structural parts, seals

AEROSPACE

Tank linings, interiors, structural components

BALLISTICS

Bulletproof vests, protective helmets, vehicle armour

FURNITURE

Decorative laminates, furniture films

FLOORING

Laminate flooring, PVC/vinyl flooring

ELECTRONICS

Base materials for flexible PCB's, speaker cones/membranes, mobile phone and laptop covers, electrical insulation

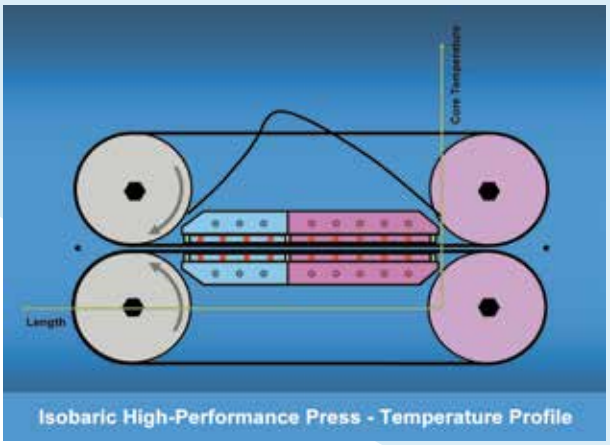
CONSTRUCTION

Panel heating, insulation, soundproofing

ENERGY

Rotor blades, fuel cells, batteries

Highly Efficient Production for Top Quality



Isobaric High-Performance Press - Temperature Profile

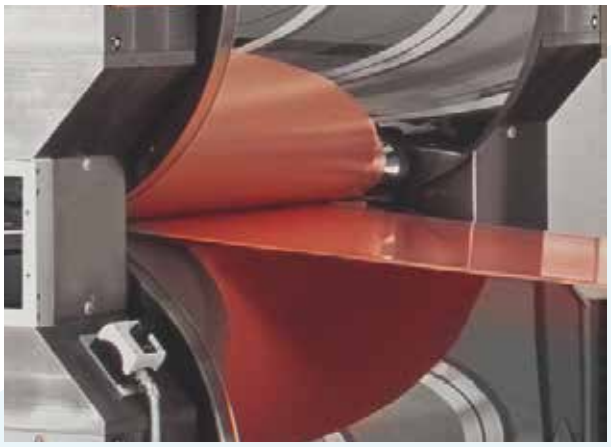
Principle of the Double Belt Press

Double Belt Presses are the ideal plant for the continuous production of foil and board material in a single pass.
Two endless steel belts are guided through the inlet and outlet around steel drums.
Between them there are pressure plates in what is known as the reaction zone.
Here temperature and pressure are applied to the materials being fed through.
Heating elements are installed in the plates for a high efficient heat transfer.

Variety of Materials

Regardless of material composition – almost all kinds of material can be pressed in excellent quality with HELD Double Belt Presses.

Processes roll and sheet material, powder, granules, etc.



Steel Belts from HELD

are made from unique high-quality stainless steel in a special process. The highly wear resistant chrome surface guarantees a long service life and contributes decisively to the outstanding cost-effectiveness.

Our Technology – Your Advantages

Advantages

- The continuous process offers a high productivity in a short time period
- Uniform pressure provides stress-free product
- Heating and cooling under maintained pressure prevents evaporation
- Differently controlled temperatures enable material specific temperature profiles
- Outstanding heat transfer allows high production speed
- The oil pressure cushion guarantees a safe and energy efficient production

Benefit from our experience in developing, designing and operating of

Un- and rewinding units

Side waste trimmer

Cross cutting units

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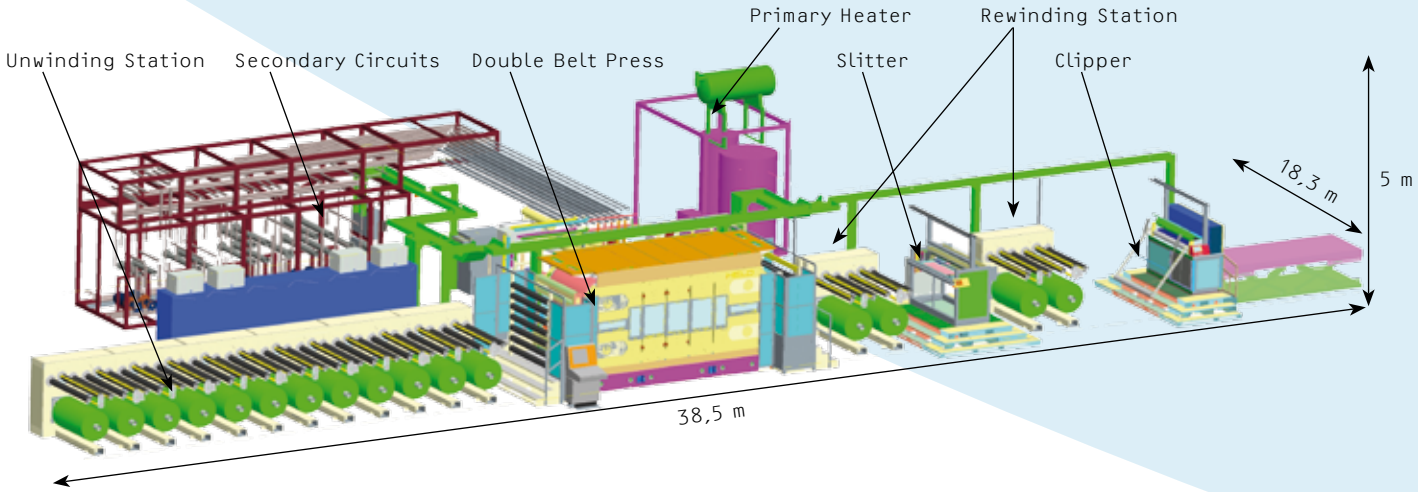
turning ideas ...

Technology Park
Your Material – Our Technology

We offer you the opportunity to hire one of our three machine lines for development tasks and production runs.

Through this opportunity our customers can develop new materials, optimize their processes and produce products economically.

Furthermore our customers can discover the advantages our isobaric Double Belt Presses offer, before making the decision to buy their own Double Belt Press.



Specification Heather 2:
- Pressure: Up to 40 bar, isobaric
- Temperature: Up to 400 °C
- Reaction Zone: Width 1,4 m/Length 2,1 m
- Heating & Cooling under pressure

Specification Heather 4:
- Pressure: Up to 80 bar, isobaric
- Temperature: Up to 400 °C
- Reaction Zone: Width 0,8 m/Length 3,0 m
- Heating & Cooling under pressure

Specification Heather 5:
- Pressure: Up to 80 bar, isobaric
- Temperature: Up to 400 °C
- Reaction Zone: Width 1,5 m/Length 3,4 m
- Heating & Cooling under pressure

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