

The most up-to-date clothing
for shoe presses

atrocross.

Heimbach – wherever paper is made.



ATROCROSS from Heimbach: Successful worldwide and highly productive

**ATROCROSS is specially developed for highest productivity in all shoe presses
– writing and printing grades up to 120 g/m²**

Super start-up characteristics

Elimination of start-up phase

New condition of felt identical with operating condition

Spontaneously active high-efficiency density:

- immediately active fine capillarity
- high contact surface
- immediate surface pressure transfer

Highest possible expressibility:

- immediate elastic compressibility
- micro-foil operation of CD filaments
- immediate high water flow
- short dewatering distance

Evened out moisture profiles

Regularity of felt structure

Optimal homogeneity of all levels

Yarn layers + substrate batts = substrate structure:

- optimal water distribution
- multi-layer batt structure
- appropriate pore volume distribution
- even volume increase within felt structure (no base weave displacement)

No substrate displacement:

- secure fixing of substrate layer by specially developed needling technique
- individual matching of substrate/batt

Highly efficient structurally determined washing out of blinding particles

Prevention of rewetting

High level of dewatering after the nip

- controllable nip saturation level
- extremely high nip dewatering
- high dry content after nip
- suction removal of residual water from paper-side batt by controlled capillarity

ATROCROSS: The special felt for shoe presses

Stable running

Stability of Substrate components

Clothing as transport medium for the sheet

Dimensional stability:

- flat yarns MD: CD – no knuckles
- specified CD and MD stiffness
- reliable substrate stability
- highly efficient fibre anchorage

Matching of components (Fibre fineness – air permeability – topography – needling technique):

- low boundary air layer on paper and roll-side
- no "blowing" before the nip

Highest dry contents with greatest possible paper bulk

Jet impulse dewatering

Maximised fast nip dewatering

Surface pressure transfer:

- even pressing
- no base weave knuckles
- maximum contact surface

Highest possible expressibility with high-press impulse but low specific pressure:

- active high-efficiency density
- elastic compressibility
- micro-foil effect of CD filaments
- low flow resistance
- short dewatering route

Maximum freedom from marking Minimised two-sidedness

Flat topography at all felt levels

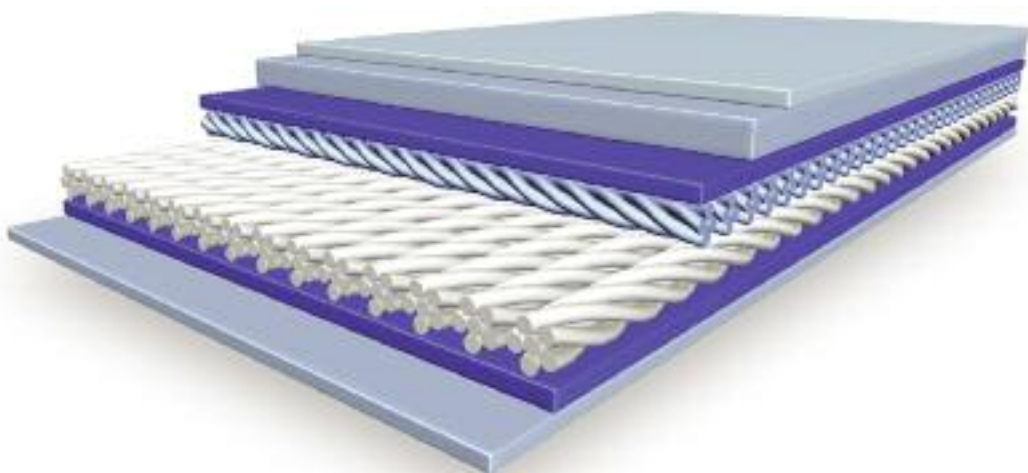
- knuckle-free substrates
- protective cover to substrate batt and multi-layer batt package
- Specified CD and MD stiffness
- Optimal "Bridging effect" with grooved/blind-drilled belts
- even water distribution – prevention of shadow marking
- homogeneous top surface with finest fibres

atrocross.

Install – run – achieve production

Totality of the component functions – and their continuity at a high level during the whole felt life – result in the all round successful shoe press felt

ATROCROSS from Heimbach –
total production



Heimbach GmbH & Co. KG • D-52348 Düren • phone +49 (0) 24 21 802-0 • fax +49 (0) 24 21 802-700
heimbach-paper@heimbach.com • www.heimbach.com

Heimbach Asia (Singapore) Pte. Ltd. • 9 Temasek Boulevard • # 08 - 03 A Suntec Tower Two • Singapore 038989
heimbach-asia@heimbach.com

Heimbach Ibérica S.A. • Apartado 337 • E-09080 Burgos • heimbach-iberica@heimbach.com

Heimbach Specialities AG • Tülje 65 • B-4721 Neu-Moresnet • heimbach-specialities@heimbach.com

Heimbach Switzerland AG • Solothurner Str. 65 • Postfach 7 27 • CH-4603 Olten
heimbach-switzerland@heimbach.com

Heimbach U.K. • Bradnor Road • Manchester M22 4TS • UK • heimbach-uk@heimbach.com

