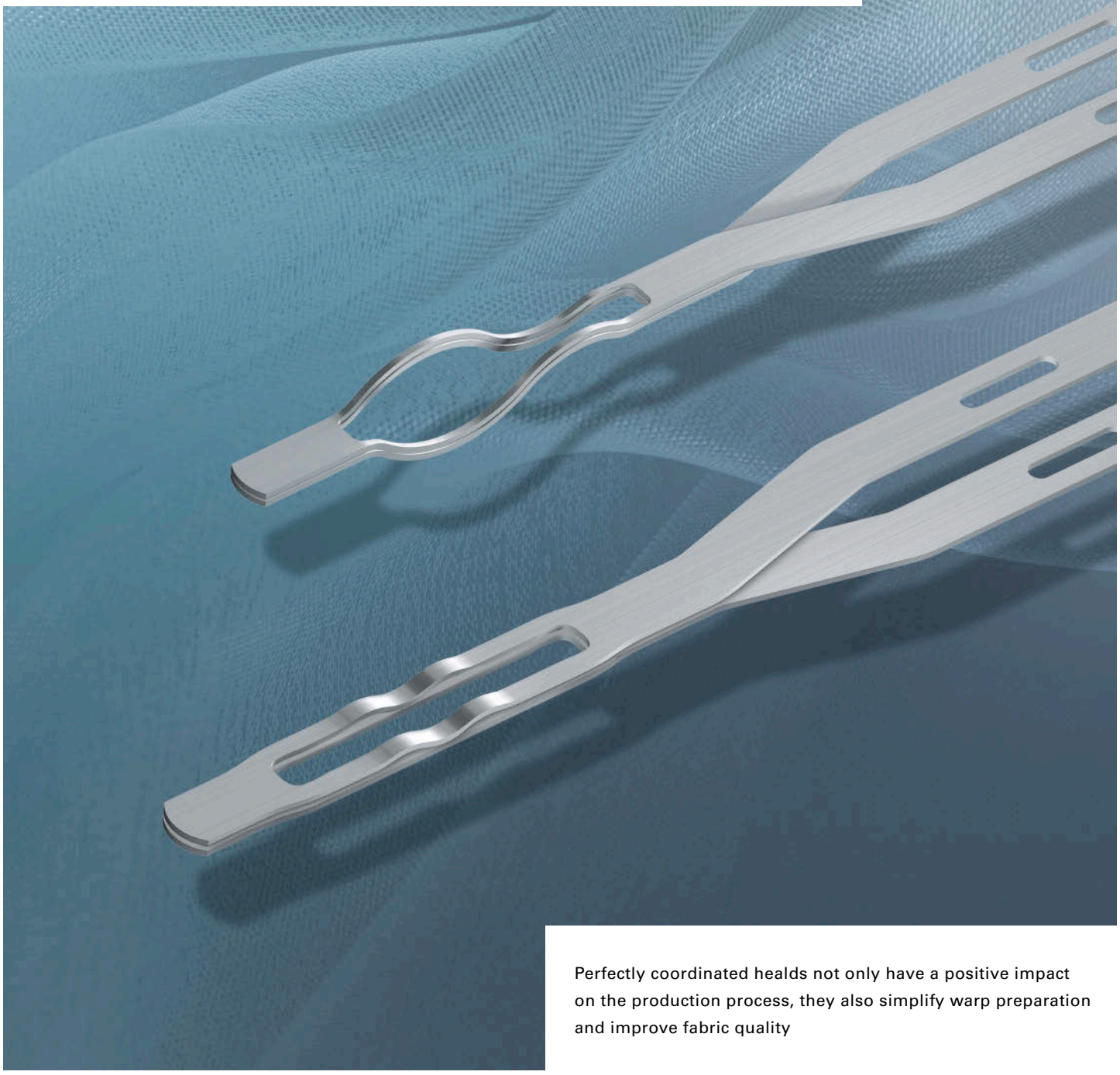
GROZ-BECKERT®

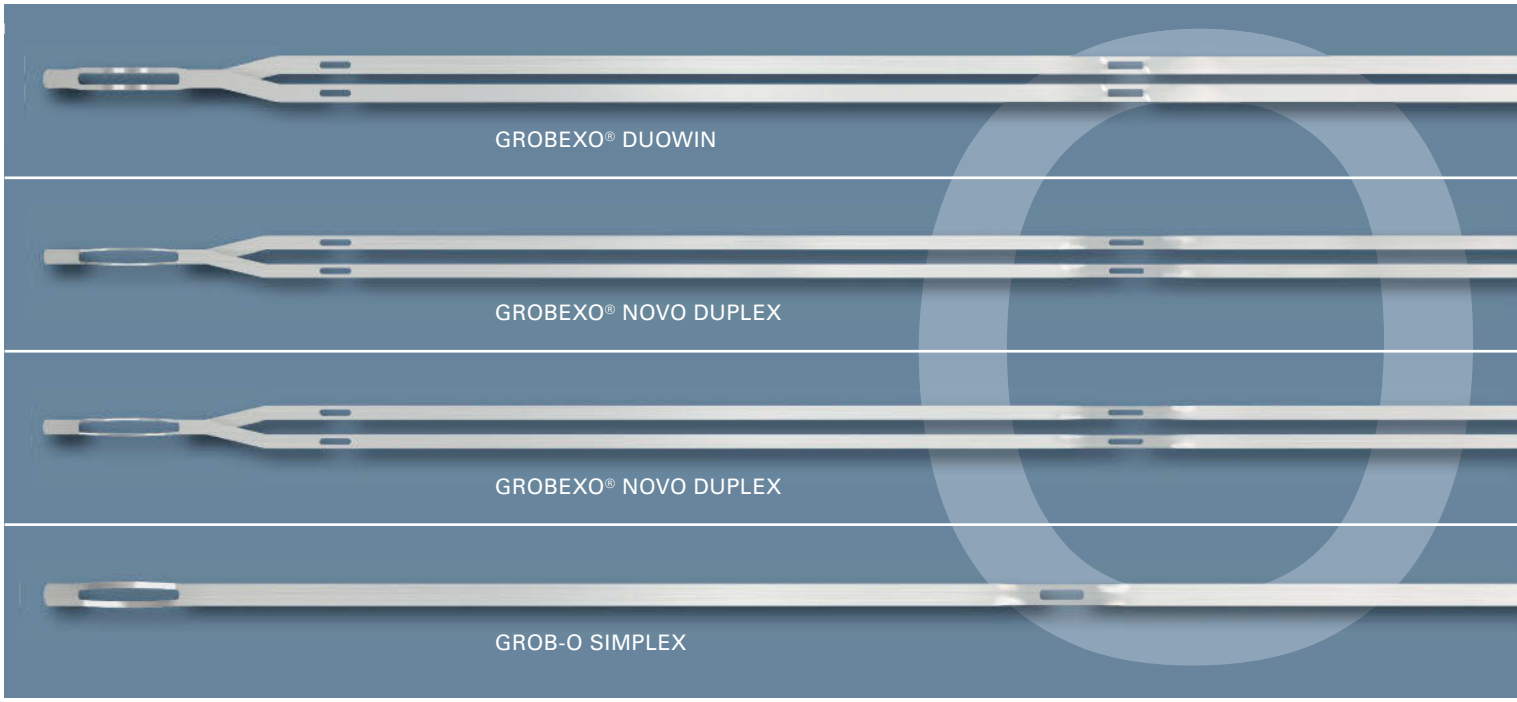
Grob®

PERFORMANCE ADVANTAGES –
ROLLED WIRE HEALDS OF NON-TEMPERED STEEL WITH O-SHAPED END LOOPS



Perfectly coordinated healds not only have a positive impact on the production process, they also simplify warp preparation and improve fabric quality

ROLLED WIRE HEALDS OF NON-TEMPERED STEEL WITH O-SHAPED END LOOPS



Quality products from Groz-Beckert for slider heald frames

Range of Application

GROBEXO® SIMPLEX and NOVO DUPLEX healds achieve the best results on water and air jet weaving machines in the low speed range or on shuttle weaving machines.

GROBEXO® DUOWIN healds utilize OPTIFIL® thread eyes and a reinforced cross-section together with specially-designed end loops for optimum wear resistance - a product designed to withstand high levels of stress at midrange operating speeds on water and air jet weaving machines.

Rust protection - tuned to the environment and the application

Healds made of non-tempered steel are produced of GROBINOX® stainless steel - optionally available in chromium steel (Cr) or chromium nickel steel (CrNi).

Perfect form and polish

All Groz-Beckert healds are produced with adherence to the closest of tolerances, guaranteeing problem-free drawing-in. Utmost care is maintained in polishing to produce an ultra fine, consistent surface finish.

OPTIFIL® is key to optimized fabric production

The patented design of the OPTIFIL® thread eye has been optimized to ensure smooth and controlled passage of the drawn warp end as well as adjacent ends.

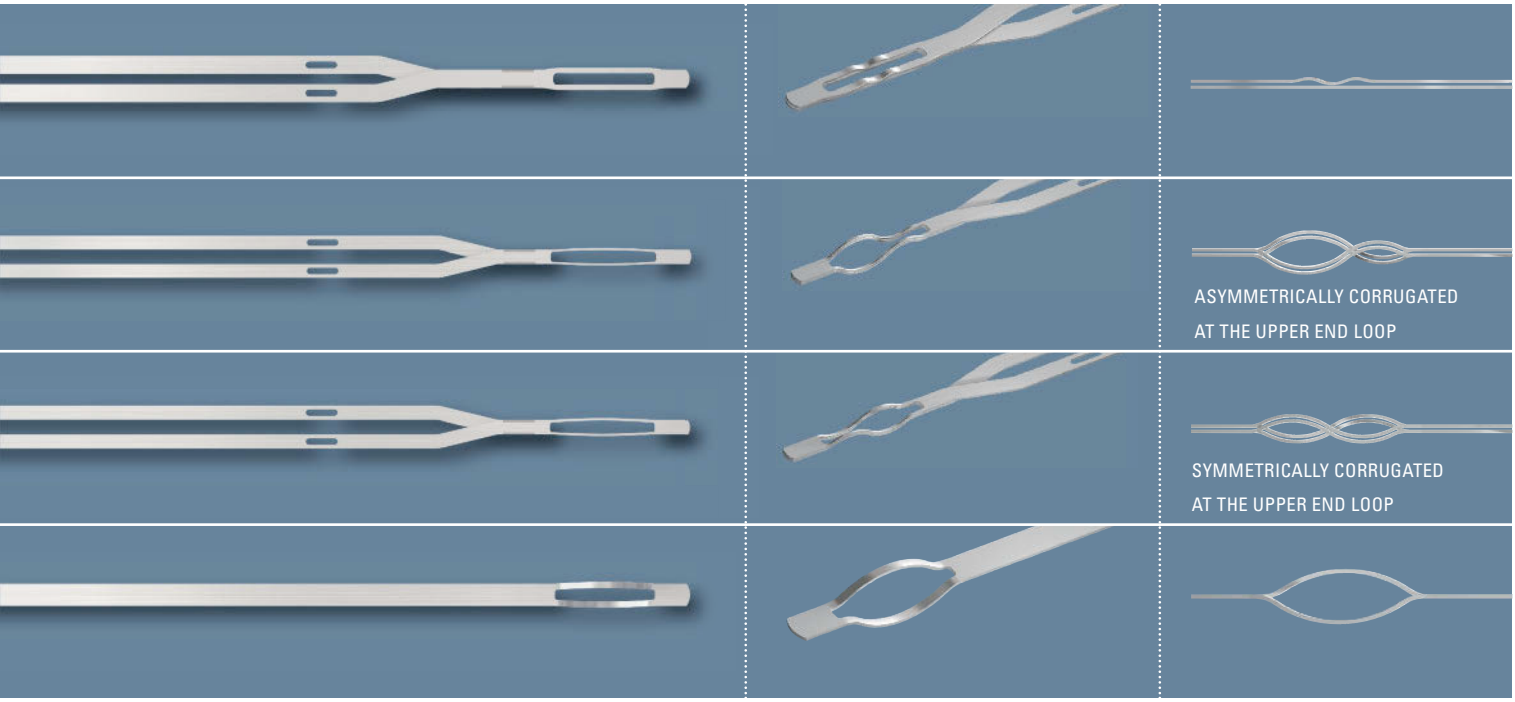
The OPTIFIL® thread eye provides substantially more space for the warp end. Compared to healds with standard thread eyes, they allow up to a 30 % increase in density. The warp end lies laterally on a flat surface rather than in contact with an edge, minimizing the degree of contact pressure and friction. Depending on the fabric construction, the required number of heald frames may be reduced through increased heald density.

Automatic drawing-in

Groz-Beckert healds made of non-tempered steel are fully compatible with existing automatic drawing-in on existing or new drawing-in machines.

Fast and economical handling

In NOVO DUPLEX and DUOWIN healds with double rows of eyes, the DIVI dividing slots accommodate separation rods. The healds can then be segregated into separate bands, one with healds with the thread eye in the “front” and one with thread eyes in the “rear”, for automatic drawing-in.



Determination of the correct heald execution

Suitable for warp yarns					Maximum density [1]			Healds made of non-tempered steel with closed O-shaped end loops		
					Standard thread eye		OPTIFIL® thread eye			
Tex system	Metric number	Denier	Cotton	Worsted yarn	SIMPLEX	NOVO DUPLEX	DUOWIN	Cross section	Thread eye	Trademark
Tt	Nm	Td	NeB	NeK	Density per cm	Density per cm	Density per cm	mm	mm	
125	8		5	7	8			3.5 x 0.40	7.0 x 2.0	GROB-O
30	34	300	20	30		20		2.2 x 0.30	5.5 x 1.2	GROBEXO®
							24	2.6 x 0.25		
							17	2.8 x 0.30		

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1) The densities correspond to average standard applications. Variations depend on the number of heald frames used and warp yarn properties.

HEALDS – TECHNICAL SPECIFICATION DETAILS

Healds made of non-tempered steel with closed O-shaped end loops	Drawing-in machine application	Distance inside end loops: Upper and lower end loops "offset"	Distance inside end loops: End loops "asymmetrically corrugated" above, "flat" below	Distance inside end loops: End loops "symmetrically corrugated" above, "flat" below	Distance inside end loops: End loops "alternately corrugated/flat" above and below	Position of thread eyes: Single row, symmetrical	Position of thread eyes: Double row, asymmetrical	Position of thread eyes: In the centre	Position of thread eyes: 10 mm above the centre	Material: Stainless steel	Material: Stainless steel
Symbol											
Symbol	...EX...					SIMPLEX	NOVO DUPLEX / DUOWIN			GROBINOX® (Cr)	GROBINOX® (Cr Ni)
GROB-O		●				●			●	●	
GROBEXO®	●		●				●	●		●	
GROBEXO®	●			●			●	●			●
GROBEXO®	●				●			●		●	●

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