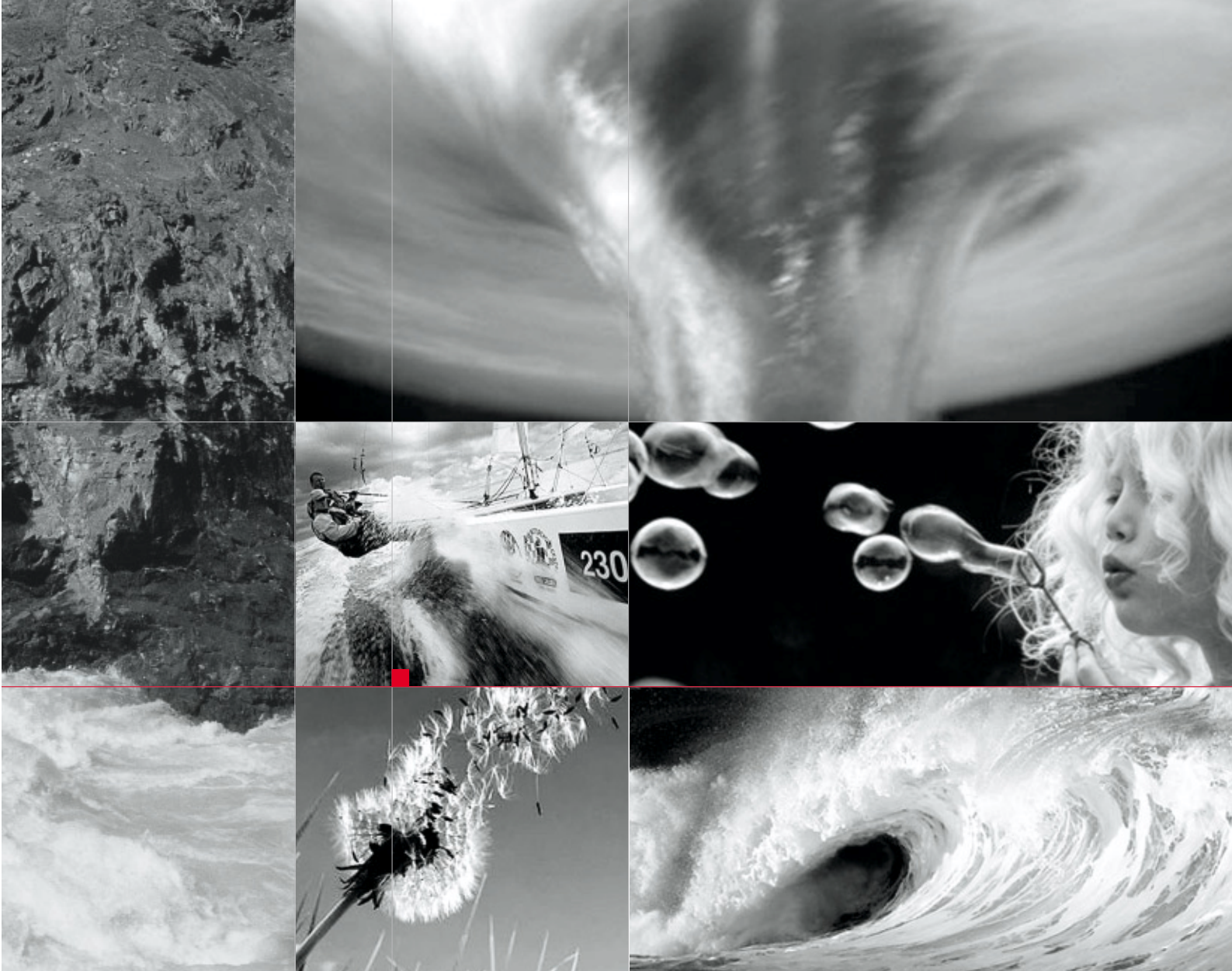


Drive solutions for
pumps & compressors

LUST

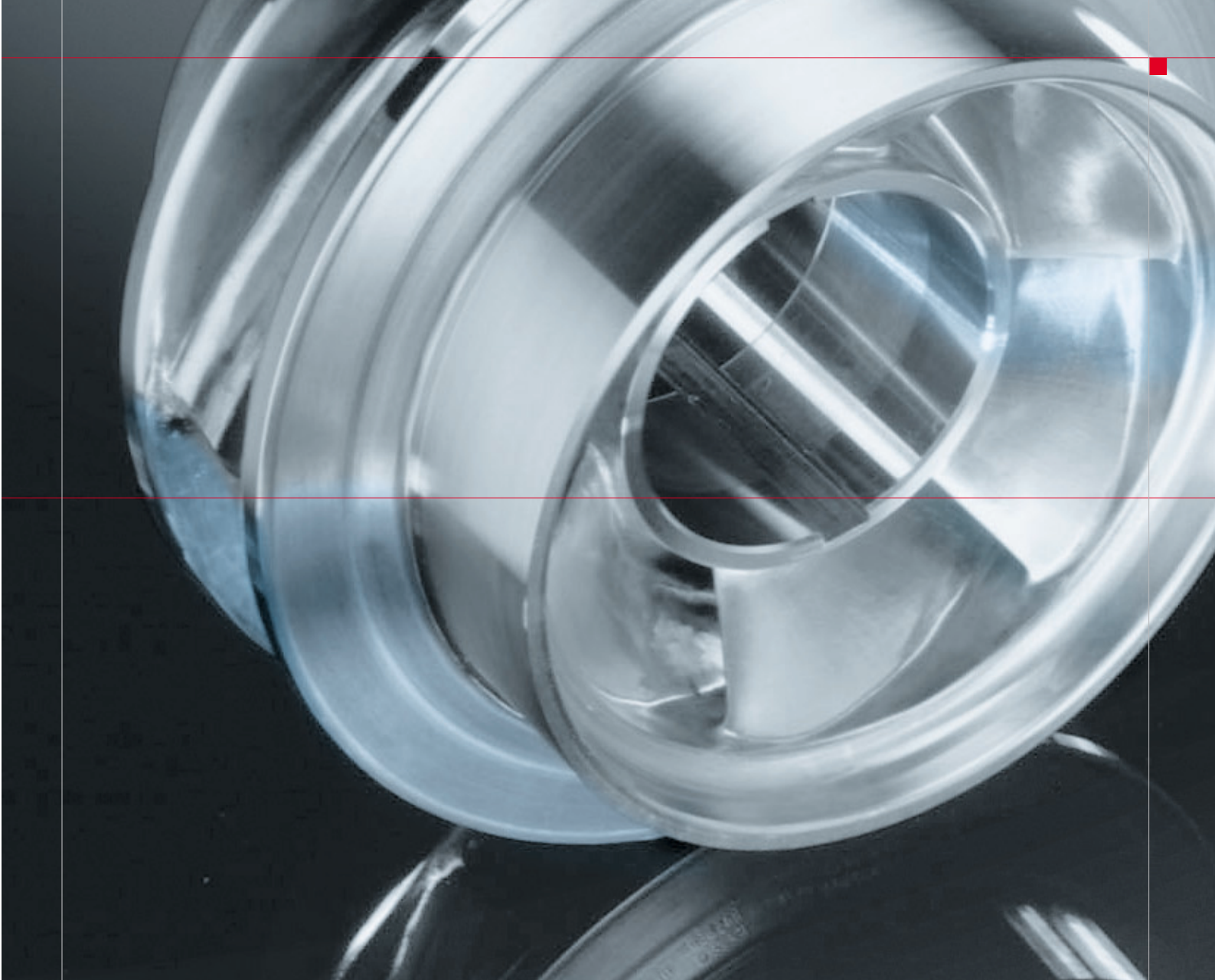




Natural flows have formed our living environment since time immemorial. They have repeatedly been a source of fear for humans, but they have also made life easier.

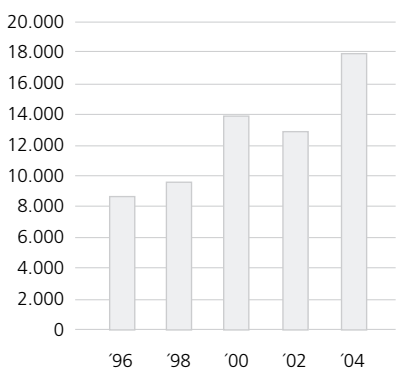
For this reason, it has been an ongoing effort of human-kind to make use of and artificially create flows. Without them the industrial revolution of the last few centuries would not have been possible.

Our drives will give you the power to contribute decisively with your pump and compressor systems to technical progress in future.



Sales figures by the unit

Development of piece numbers in the market sector for pumps and compressors



Technology chronology

- 1974 first drive electronics system for turbo-pumps with integrated electronic commutation using Hall probes
- 1986 first drive regulator for turbo-pumps with micro-controller
- 1997 first fully digital onboard-regulator for turbo-pumps with sensor-less commutation
- 1998 5-axe magnetically mounted bearing-free canned motor pump for chemical plants
- 1999 loss optimization using synchronous motors in magnetically mounted CO₂ laser blowers
- 2001 securely limited speed according to EN 954-1 Category 3 for speed-critical applications
- 2002 launch of the world's first three-point inverter with 64 kHz switch frequency for high speed applications of up to 4000 Hz

If innovations are your standard then mastering the essentials is a matter of course

By now you will have successfully mastered the apparent contradiction between the highest demands on performance for your products and continuously increasing costs. The guarantee of success for this was certainly not any kind of bog standard technology but innovation based on creativity, know-how, experience, enthusiasm for the subject and last but not least ability.

Our work is also characterized by pushing the limits and going the extra mile. This was the only way to achieve amazing technical and economical progress in the last few years.

Substantial reductions in design and power loss both in electronics and in motors, along with an increase in functionality and process control were and are only possible as a result of new technologies. Consistently placing the profitability of new solutions above everything is the basis for your success and ours.

Significant companies have been profiting for a long time already from the loyal partnership with LUST:

"With LUST, KSB has found an industrial partner for developing innovative drive solutions who develops and introduces new technologies."

Bernd Wittmer, KSB AG

"The technological competency of LUST – from small high-speed drives to magnetically mounted systems for high-speed applications – is unique on the market and offers us the possibility of getting all our drive solutions from one source."

Marcus Eisenhuth, Leybold Vacuum GmbH

"Professional project management at Lust Drive Technology, with project completion according to exact deadlines, offers us reliable planning and innovative solutions."

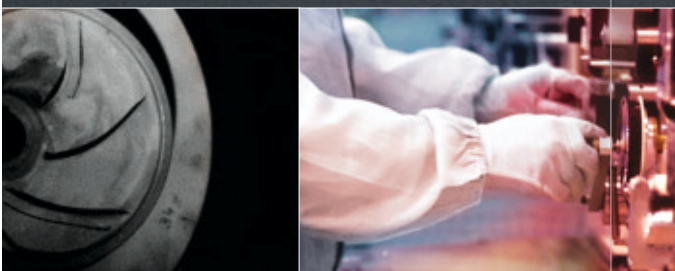
Martin Kedziora, nash-elmo Industries GmbH

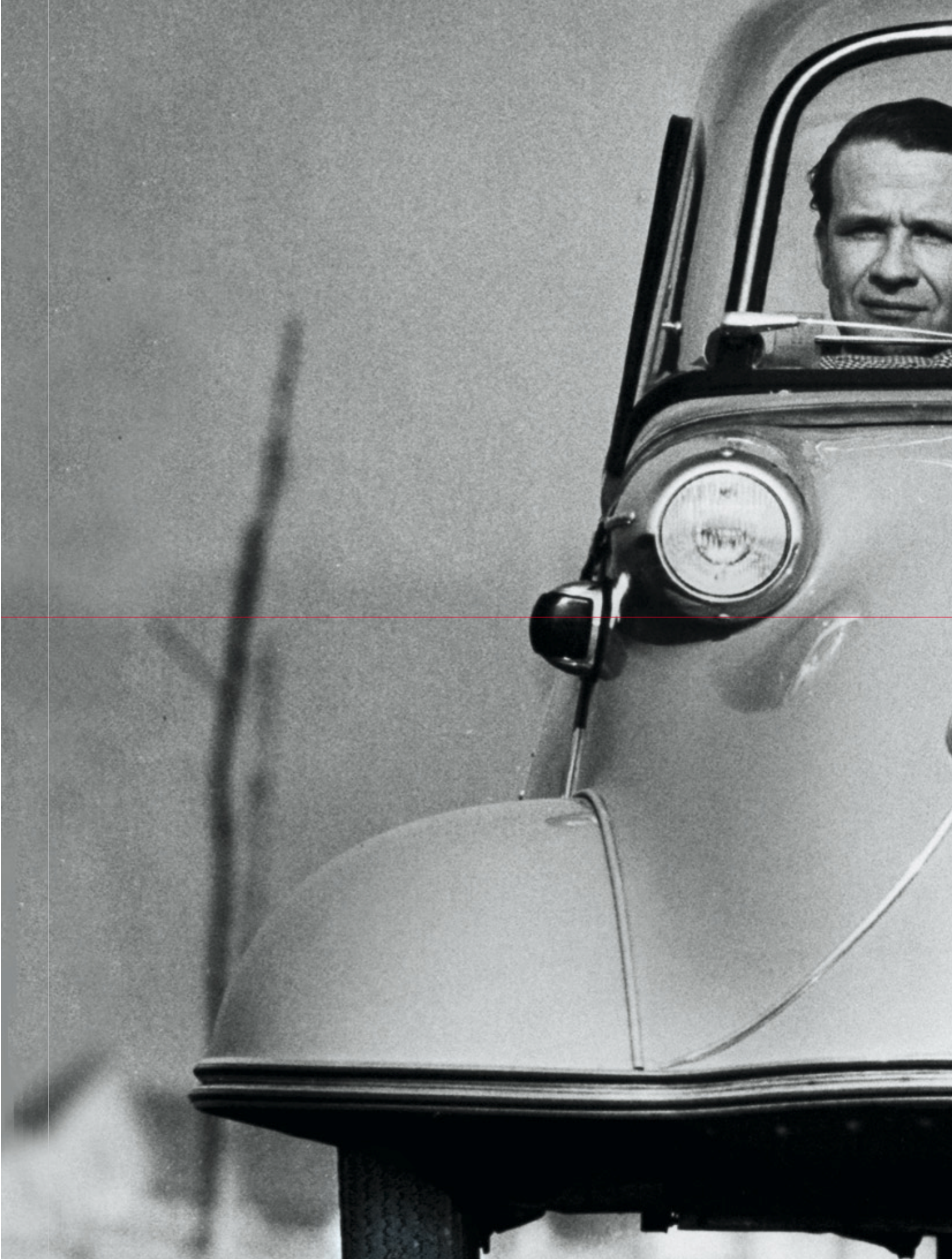
"Together with our reliable partner, we have implemented supply and logistic ideas that considerably reduce processing expenditure and ensure deadline-consistent availability for our production at all times."

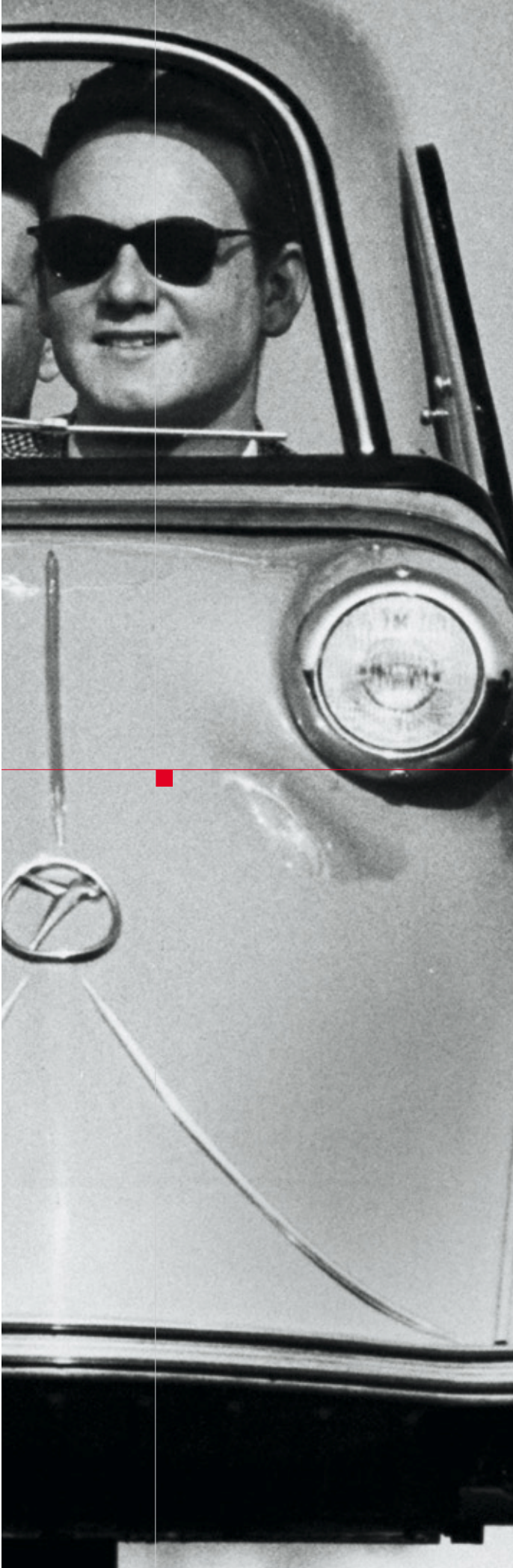
Helmut Rölz, Pfeiffer Vacuum GmbH

"LUST does absolute justice to the high demands placed on our suppliers; this applies both to the quality of products in routine series production but also to the competent and reliable partnership in solving pending drive jobs."

Jochen Doberitzsch, Trumpf Maschinen AG







This is how we understand it: drive systems and relevant logistical concepts ...



*Turbo-molecular pump
with integrated drive
electronics*

... which were adapted to your requirements by collaboration in such a way that the commercial aspects and technological features are in optimal alignment with each other for your benefit.

These kinds of tailor-made solutions can only occur in a close partnership between us and our customers. Joint task analysis and a target formulation derived from this are always the prerequisite for successful collaboration. This depends not only on the instructions from our customer being implemented exactly but also on the alignment of requirements and technological capacity for implementation until an economically and technically optimum solution has been achieved. The later commercial success of a product is principally based in this phase of the project already.



*Motor elements for high-speed
applications, developed and
produced by Levitec*

The implementation phase is where we can bring to bear our many years of experience in processing complex projects in close cooperation with our customers.





An insight into a compact drive electronics system with a small output (Pfeiffer Vacuum GmbH)

Project management competency, continuously controlling economic data and not least specialist know-how are guarantees for achieving project goals. Against the background of all this, the decision to develop a customer specific product or for realising

something on the basis of our existing product portfolio can be made based exclusively on commercial aspects and deadlines.

Both approaches are components of our business idea and have been implemented innumerable times before.

Lust is at the root of it ...

... made up of three drive technology companies in which approx. 300 employees, inspired by the technical and economic success of the last few years, have just one goal: to gain the enthusiastic interest of customers again and again.

Innovative ability nourished by many years of intense collaboration with internationally leading universities, a disproportionately large number of highly qualified staff in research and development, an experienced team with competent advisory skills in project management and application work, as well as highly motivated and inexhaustible sales and marketing employees put us in a position where we can repeatedly prove that unique and commercially attractive products can be realised in Germany.

We would like to continue proving this with you. Come and visit us, relearn what openness and partnership mean and let us enjoy a successful future together.



Drive electronics for turbo-molecular pumps with extensive process functionality (Pfeiffer Vacuum GmbH)



Produced by
LEVITEC

Synchronous motor elements for CO₂ high performance laser blowers (Trumpf Maschinen AG)



Drive electronics for turbo-molecular pumps developed according to customer-specific instructions (Leybold Vacuum GmbH)

What do you understand by
“tailor-made solution”?



Everything for your success

Drive technology for automation



www.lust-tec.de
Servo and inverter drive systems for automation



www.lust-drivetrronics.de
Servo drive systems for automation



www.levitec.de
Motor and magnetic bearing components for high-speed drives

Micro-system technology/sensor systems



www.sensitec.com
Magneto-resistive sensor chips and microsystems for measurement of physical variables



www.naomi-mainz.de
State-of-the-art large-scale chip production for AMR and GMR sensors



www.lust-hybrid.de
Assembly and interconnection technology for microsystems

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