The engineer's choice.

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A symbol that defines standards.



Green through and through

In order to underline our philosophy, efforts and achievements when it comes to environmental protection, we have put them all in a nutshell with GreenTech. The benefits of GreenTech mesh with one another from the initial development of our products through to their use – and they form a circuit that finishes right where it began: with the philosophy that we shall soon build another, even more eco-friendly and economical product.

Philosophy:

Each new development must exceed the economic and ecological performance of its predecessor.

Development:

Materials, products and processes are selected and designed in an environmentally responsible manner using state-of-the-art methods.

Production:

State-of-the-art energy, air-conditioning and ventilation technology provides maximum energy efficiency in our plant.

Awards:

Environmental prizes, distinctions and energy efficiency that beats even the most stringent limits speak for themselves.

Application:

Our high-efficiency products use GreenTech EC technology and boast enormous energy savings with top performance.

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Dear reader,

As a globally active technology company, we are very much aware of our ecological responsibility. If you're now thinking "that's what they all say," then you're probably right.

But at ebm-papst, there is a decisive difference. For us, ecological awareness is not simply a fad, but rather a conviction that is deeply rooted in the history of our company.

Why do we (rightly) call ourselves the "green company"? And how do our customers benefit from this? You will find the answers to these questions on the following pages. In addition, we would also like to give you an insight into our overall thoughts and actions.

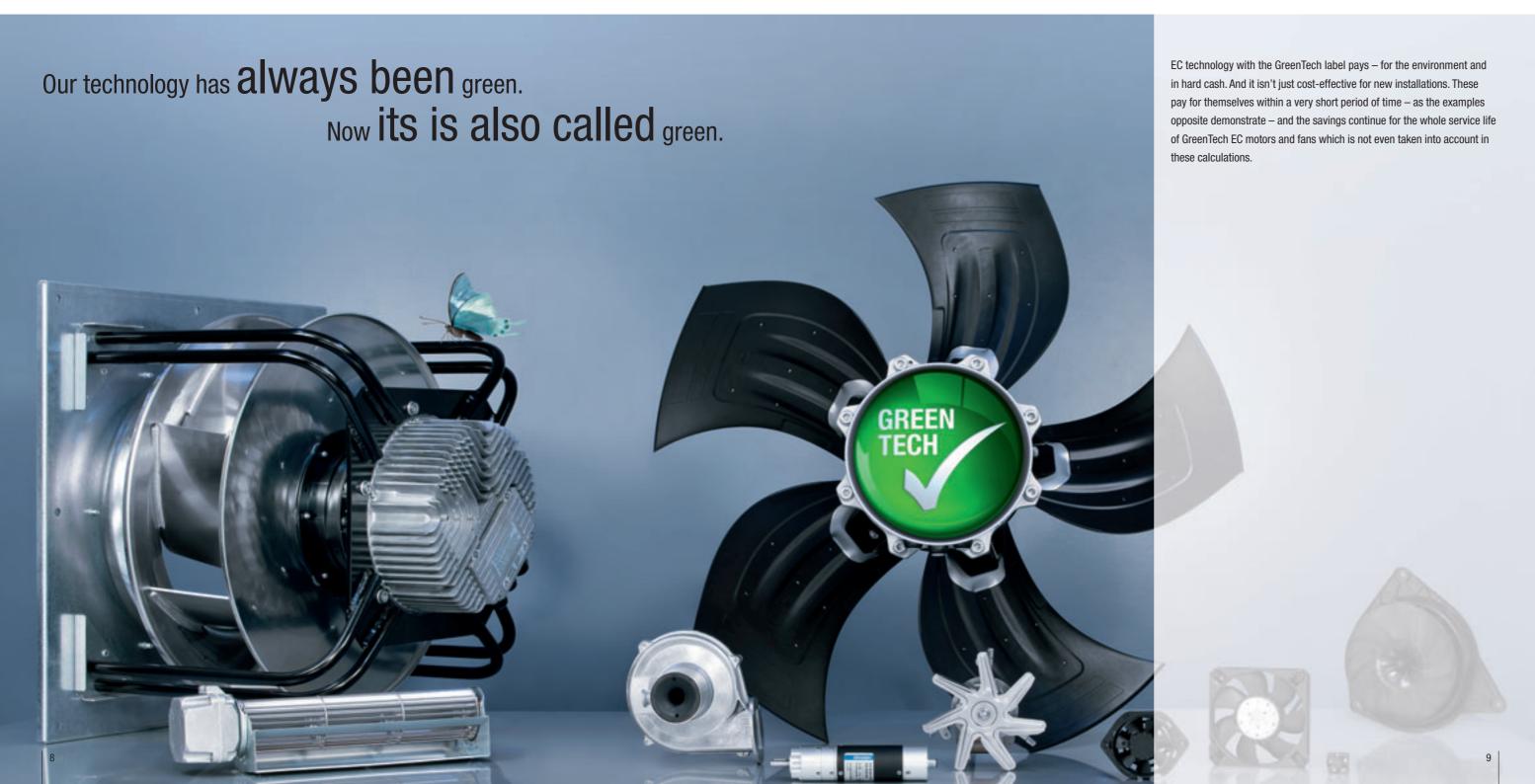
We hope you enjoy reading this issue.

Hans-Jochen Beilke

Chairman of Board of Directors







a 30 % shorter working time. Over a year, that means a savings potential of more than 9.4 MWh and 5.6 tonnes of CO_2 . Cost

6 fans work in one heat exchanger. At an average duty cycle of $75\,\%$ this means an





fans could save 6.5 MWh of energy over a year. The fans will have paid back the extra











annual savings potential is 291 MWh and 34,081 euro. CO₂ emissions are reduced







As a manufacturer of high-quality industrial products with global operations we feel obligated to our world – in other words our environment – to a special degree. As a matter of conviction, we look at cost-effectiveness and environmental protection not as contradictions, but rather as an inseparable unit – and this we have done ever since the very early days of our company. That applies not only to end products that are both economically and ecologically outstanding, like our GreenTech EC motors and fans, but also the complete path to get there and the further development beyond.

Today, ebm-papst is looked upon as a role model in recycling, in waste avoidance, in the continual reduction of emissions, in the use of environmentally compatible materials and in reducing energy consumption.

With this uniquely universal approach, we send out a clear signal. And we call it GreenTech.

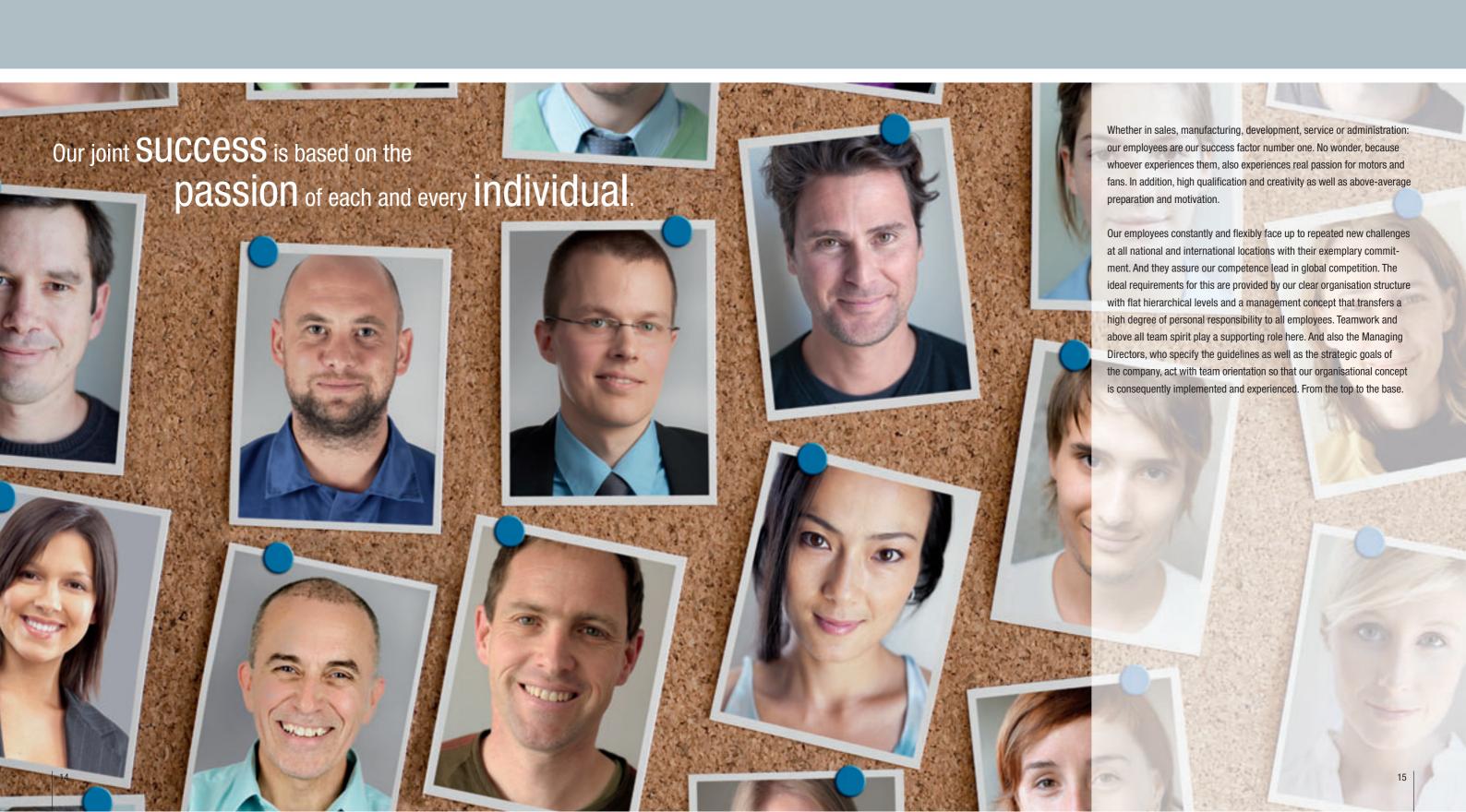


ebm-papst engineering services are available throughout the world — however the source of our engineering skills originates in Germany: in our corporate centres with their very different, interrelated focuses. A total of over 500 engineers and technicians find ideal requirements here for their intensive work in the fields of motor technology, electronics and aero-dynamics. Close cooperation between our three central locations and also their different specialisations are our very essential success factors: at ebm-papst Mulfingen above all the expertise in ventilation, air-conditioning and refrigeration technology is at home. Again and again, new and excellent ideas and products, for instance the pioneering energy-efficient GreenTech EC fans with a diameter of up to 990 mm or energy-saving motors for refrigeration technology, ensure that ice-cold savings are made for any cooling task.

At ebm-papst St. Georgen the focus is in the electronic cooling segment for IT and telecommunications with the permanent enhancement of the legend-ary compact fans. Furthermore, ebm-papst St. Georgen is the R&D partner to many major automobile brands.

And ... whether refrigerators or freezers, driers or ovens: fans from ebm-papst Landshut perform their tasks almost silently in the widest range of household appliances. We have also established an excellent position in heating engineering, for instance with highly energy-efficient systems for innovative heating condensing boiler technology.

Mulfingen reservo





Leading technologies, groundbreaking application solutions, innovative products — all of these would not be possible if things were not seen as a whole: aerodynamic interrelationships and therefore the perfect interplay of motor technology, electronics and aerodynamics. Our three core competencies are merged directly to each other in our products. Because the objective is always to utilise air and movement with maximum efficiency; regardless of whether in the smallest space, in large dimensions or under extreme ambient conditions. This is the only way that high-quality final products are then produced with the same consistency by our customers; whether barely perceivable climate control systems, high-precision electronic cooling or high-performance, energy-efficient heating systems.

In order to achieve an aerodynamically optimum shape for our fans, we design fan blades, impellers and ducted housings to match the relevant application environment. From seemingly small details, such as the bladetip slip with winglets, result significant optimisations for noise reduction with even higher efficiencies. And when they are combined with intelligent electronics, the drive engineering and aerodynamics then operate as a system solution optimally matched to each other. The perfect interplay thus arises: our lead in global competition.

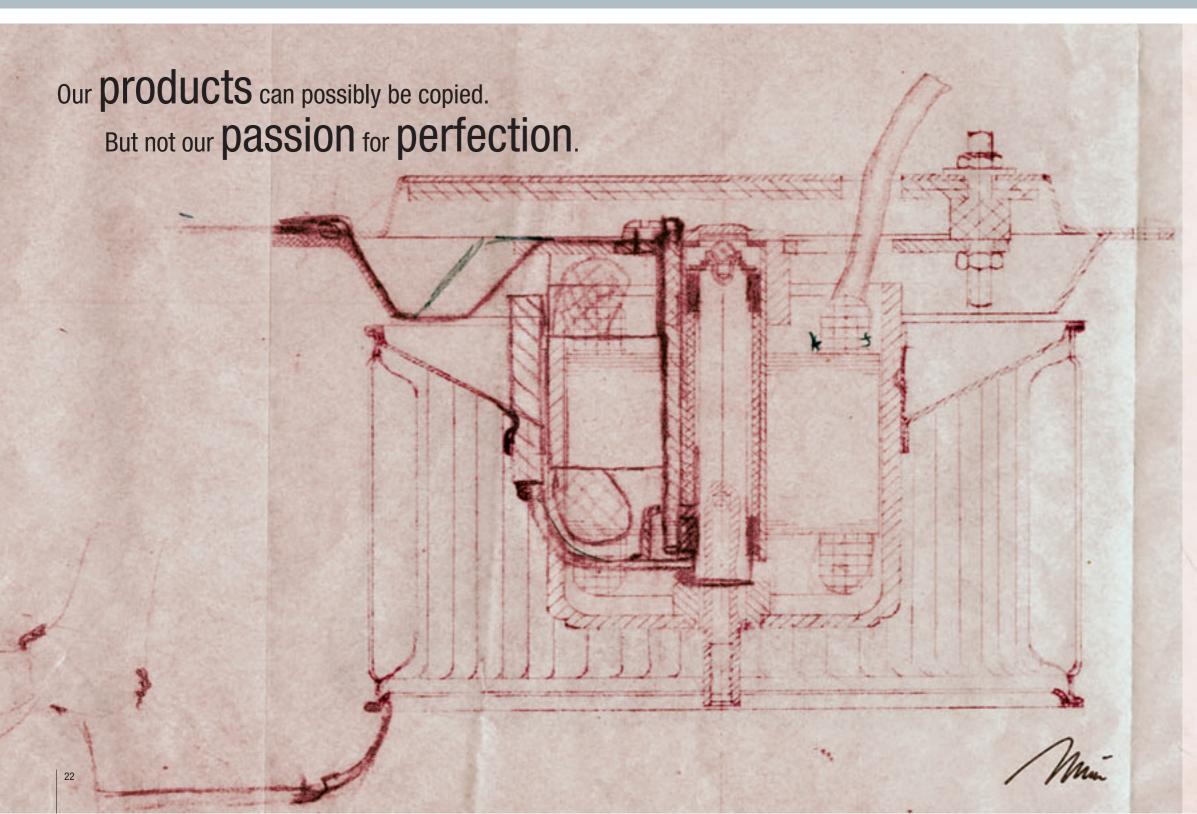
The world's widest range of products





Worldwide, ebm-papst maintains 57 sales offices, 47 of which are subsidi-aries that also have a dense sales network of representatives and distributors in their country. This is how we guarantee to our customers their very important local proximity to their contact persons: people who give advice on the entire ebm-papst product range and who further function as the link to the development centres in Germany for engineering issues. Our major international customers in turn are supported by our Key Account Management from our corporate centres that, of course, also closely incorporate the national subsidiary into the contact. We therefore ensure short paths in every case: in advice, production, development and in service.

Naturally our sales offices maintain a comprehensive distribution centre of all ebm-papst standard products, and they furthermore present themselves as fully-fledged engineering partners. Field service employees, project engineers or drive engineering support managers: they are highly qualified professionals specialised on the sector and who commit themselves to competitive technical solutions and therefore to the success of their products. Worldwide – and therefore also very close to you.



The name ebm-papst is trusted. A trust that is not only supported by decades of pioneering work in research and development, but above all by a very high quality standard. Because even if our technologies and products can be more or less copied ... our passion for perfection cannot. The unwillingness to compromise in our quality management ranges over all process stages: from advice at customers, development, decision upon materials through the choice of selected, certified suppliers and the parts production right up to delivery. All products must pass the most stringent test procedures under all conceivable operating conditions.

Compliance with the EN ISO 9001, ISO/TS 16949 international standards and the EN ISO 14001 standard confirms the success of our quality efforts, which result in products that deliver above-average service life and reliability. Such as the example of the marathon fan: a veteran, millions of which were mass-produced for decades, one of which is a test specimen that has been running in our laboratory for over 200,000 hours without showing any symptoms of fatigue. It is a symbol of the quality awareness of the founding years of our company, an awareness that has not only lasted, but which has also increased. Today, we use the principles and instrumentation of state-of-the-art industrial engineering to produce more and more products with the same full quality of a marathon fan.

68 frame size motor with flange and vibration insulation with integrally molded centrifugal cylindrical rotor wheel. Gerhard Sturm. mid 1967





It is the proverbial spirit of discovery that has made ebm-papst the innovation leader in the sector: the enthusiasm for technology that inspires us in research, development and production. And precisely that is what we want to pass on to new generations: with numerous promotions and projects in Germany and far beyond ... only a few examples: we support junior employees with scholarships in Germany and the USA. Our advanced training course "Master of Engineering" allows many employees to gain international experience and extend their horizons. We encourage technically inclined young ladies as well as young men. We are the leader in many promotions to improve the training structure ... and we give lasting support to the bearers of hope for the future! So that products "Made by ebm-papst" also remain the choice of engineers tomorrow!

Hans-Jochen Beilke