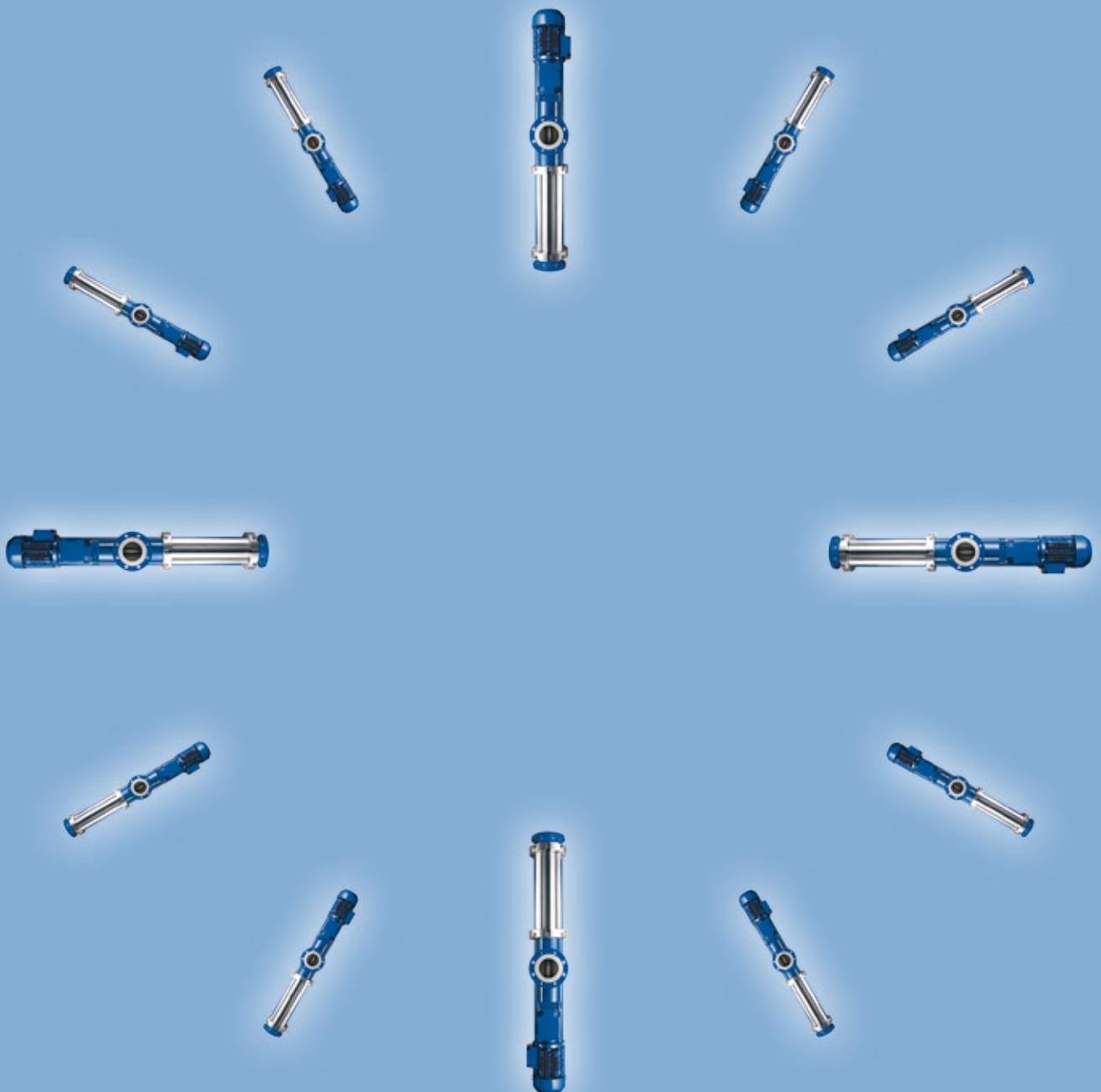


seepex.com
all things flow

Time Matters.
Smart Stator Technology.



Aristotle was right

He said, "The whole is more than the sum of its parts." In our case, it means "less"! Because time is something that you can save with the new "Smart Stator Technology" from seepex ... and saving time means saving money. With regards to our new technology a whole range of benefits exists in addition to saving time.

Why has seepex re-thought the mechanics of pumping from such a holistic perspective? The point was to construct solutions where all aspects of Life Cycle Costs (LCC) were taken into account. In a global market where millions of tons of waste is pumped, improvements in technology can create enormous benefits and savings for your processes, as well as for the environment.

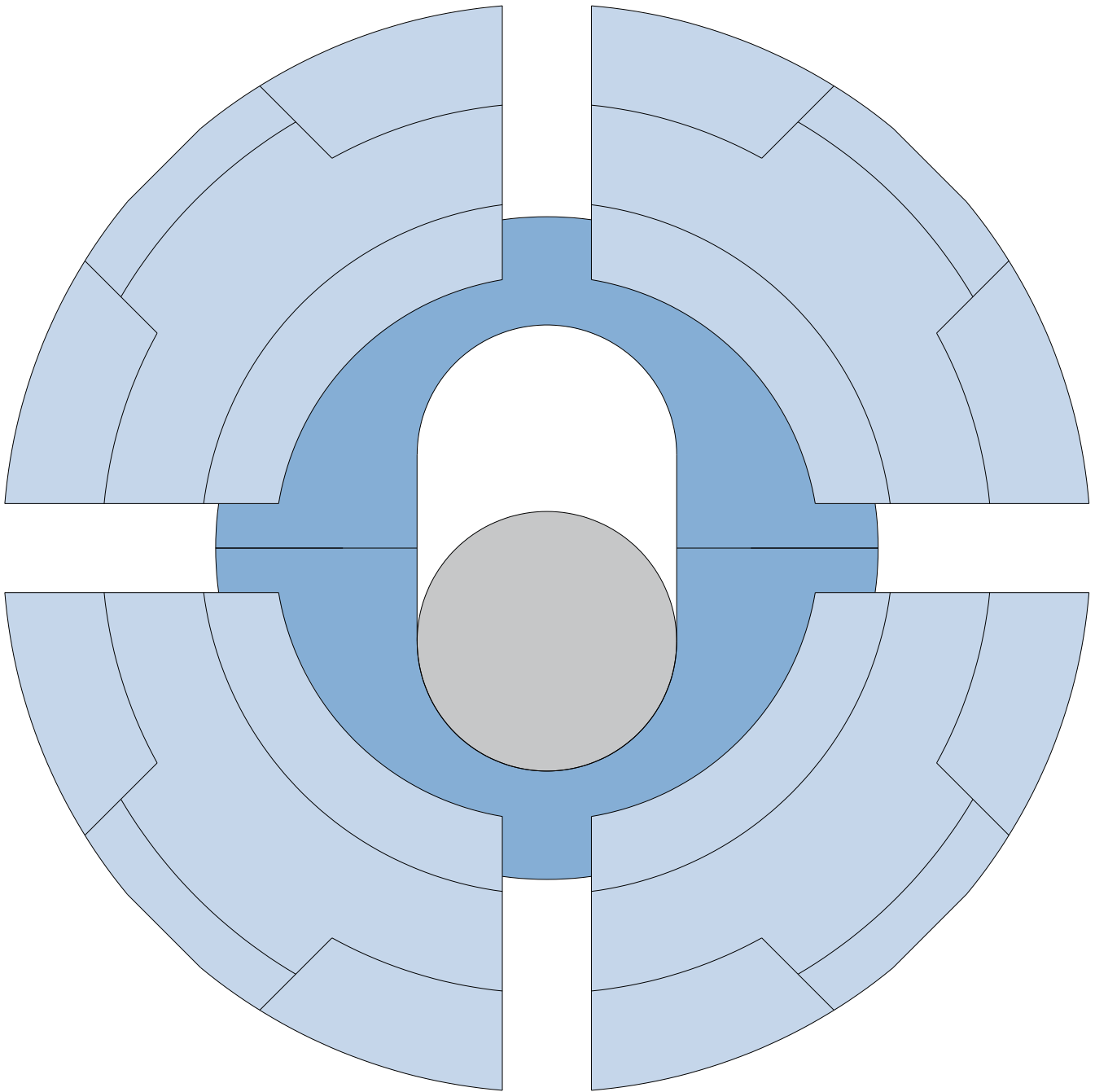
In this context, seepex has taken a step actually, two steps – in the right direction.

The development of "Smart Stator Technology" has effected a fundamental improvement in pump technology by dividing the stator into two halves. More than 80 % of applications are suitable for SST and therefore can be operated with significantly greater efficiencies and cost savings with this innovation.

With SST maintenance times are dramatically reduced. Your requirements for high performance and high efficiency for minimal investment costs are taken into consideration. In short: products reach their destination more cost-effectively.

Progressive cavity pumps with "Smart Stator Technology" convey a multitude of products in all industries.

Our motto "All things flow" is reiterated with the "Smart Stator Technology".



**Systems presentation of
Smart Stator Technology
as a cross-sectional graphic**

Smart Stator Technology

“Time Matters” – in all industries, time is an important factor. Due to rising global consumption, environmental engineering has developed into a very significant discipline. Efficiency plays an important role in this field, and the reduction of maintenance time is extremely relevant for companies in terms of investment and the calculation of Life Cycle Cost.

But modern technology must contribute even more – it must ensure a reduction in environmental pollution by the intelligent use of materials to save resources. It should ensure a reduction in energy consumed, while performing the necessary hydraulic functions required by a pump.

“Smart Stator Technology” represents modern reality. High-performance pumps equipped with SST benefiting the entire process and the overall productivity of the facility. In future, it will be even easier to make investment decisions that are both ecologically responsible and economically viable.

Pumps in the seepex product group N, which are proven in numerous market sectors and varied applications, can now be equipped with this amazing and innovative technology.

The division of the stator into two halves allows maintenance work to be completed with the minimum amount of time and effort. “Smart Stator Technology” also reduces the space required to install the pump as the maintenance is carried out without having to disassemble the pipework.

Whilst it sounds simple, SST was preceded by a lengthy research and development process. Numerous prototypes and operation tests were required in order to ensure that it could be used in almost all conceivable situations.

The results of these efforts are self explanatory on the following pages.

Adjusting segment
to hold the stator halves
in position and re-adjust
when necessary

Smart Stator
consisting of 2 stator halves
for quick and easy installation/
dismantling

Segment retainer
for positioning of stator halves
and adjusting segments

Smart Stator Technology
developed for quick and easy stator change and
the removal of foreign material without dismantling
the pipe work

Open, shut, open, shut, open ...

Pumps with "Smart Stator Technology" can be used in all industries. This amazing stator concept allows quick and easy pump maintenance, inspection of the rotor and stator and allows the removal of foreign materials in a fraction of the time.

The speed at which remedial works is completed is astonishing and saves up to 80 % of the usual assembly time. All the maintenance staff and facility management are totally satisfied with the performance of SST and the benefits it brings to all departments.

Big performance, small space

Progressive cavity pumps with "Smart Stator Technology" no longer have to be removed from the installation for maintenance. The laborious and time consuming work of dismantling and assembly of pipe work and the removal of other associated equipment are eliminated as a consequence.

As the SST components are lighter, it makes the work easier for maintenance personnel without the risk of contravening any health and safety policies.



Tight, tighter, the tightest

SST has been thoroughly tested over thousands of hours on many sites on varied applications and has surpassed all expectations. Our in house test facilities have tested SST at significantly higher speeds and pressure than would ever be seen on site and again this technology has proven to be a truly remarkable development.

The result: "Smart Stator Technology" holds – tight – true to its promises.

Smart Service

On numerous sites where SST has been installed, due to the speed and ease with which blockages can be removed, it has been decided to allow process operators to carry out this once laborious duty.

As a result, skilled maintenance engineers are now carrying out duties that they were employed to do rather than mundane blockage removals.

No special tools are required with the seepex "Smart Stator Technology".



Affordable cost of living

Everyone knows the relevance of cost of living from their own experience. Plant constructors and investors are now also experiencing this factor with our pumps. seepex is committed to reducing Life Cycle Cost (LCC) in the development and construction of conveying solutions. LCC can no longer be ignored in any industry when deciding on buying new equipment.

All for one

Dividing the stator into two halves is extremely “smart” from an ecological viewpoint. From a holistic perspective, “Smart Stator Technology” is benefitting the global ecology by reducing carbon emissions during manufacturing due to the fact that stator halves no longer require to be bonded inside a metal tube, reducing transportation costs and reducing the amount of waste generated due to the fact that only the rubber stator halves need to be replaced when worn out.

Given the constant rise in energy prices, high personnel costs and high materials costs SST ensures the payback period for this investment is kept to a minimum.

The new concept of “Smart Stator Technology” is, really, also good for the environment.

Exemplary operating costs

	Unit	Conventional	SST
Operating hours per year	h	6.000	6.000
Energy costs	Euro/kWh	0,05	0,05
Labour costs per technician	Euro/h	75	75
Number of technicians		2	1
Pump			
Number		15	15
Power requirement per pump	kW	5	4,65
Wear part reduction of rotor and stator per pump	%		up to 30
Maintenance time saving per pump	%		up to 80
Costs			
Investment for 15 pumps	Euro	45.000	48.000
Maintenance, spare part and energy costs per year	Euro	55.000	43.500
Savings			
in the 1. year	Euro		8.500
in 10 years	Euro		112.000

(non-binding model calculation)

Less is more?

Less is not always more. "Smart Stator Technology" shows that two halves are of more value than the original whole part by requiring less time to maintain and therefore less cost of ownership. Our many years of experience as pumping specialists shows us again and again that more research and development leads to fewer problems or – more positively expressed – better solutions, more customer satisfaction and more secure processes.

So, when it comes to R&D, more really is more!

From ... to

“Smart Stator Technology” is used for the current models in the product group N. Their features and performance are customised individually to your process, but here is a brief overview of the benefits you will get with SST, resulting in lower Life Cycle Cost:

- Longer service life of rotor and stator due to inbuilt re-adjustable stator
- Easier servicing
- Less downtime
- Lower spare part prices
- Increased productivity
- Lower space requirements, since no space is required for stator disassembly
- Easier handling due to lower weight
- Lower transport costs
- Eco friendly
- Undersize rotors are no longer required

Divided stator, one opinion

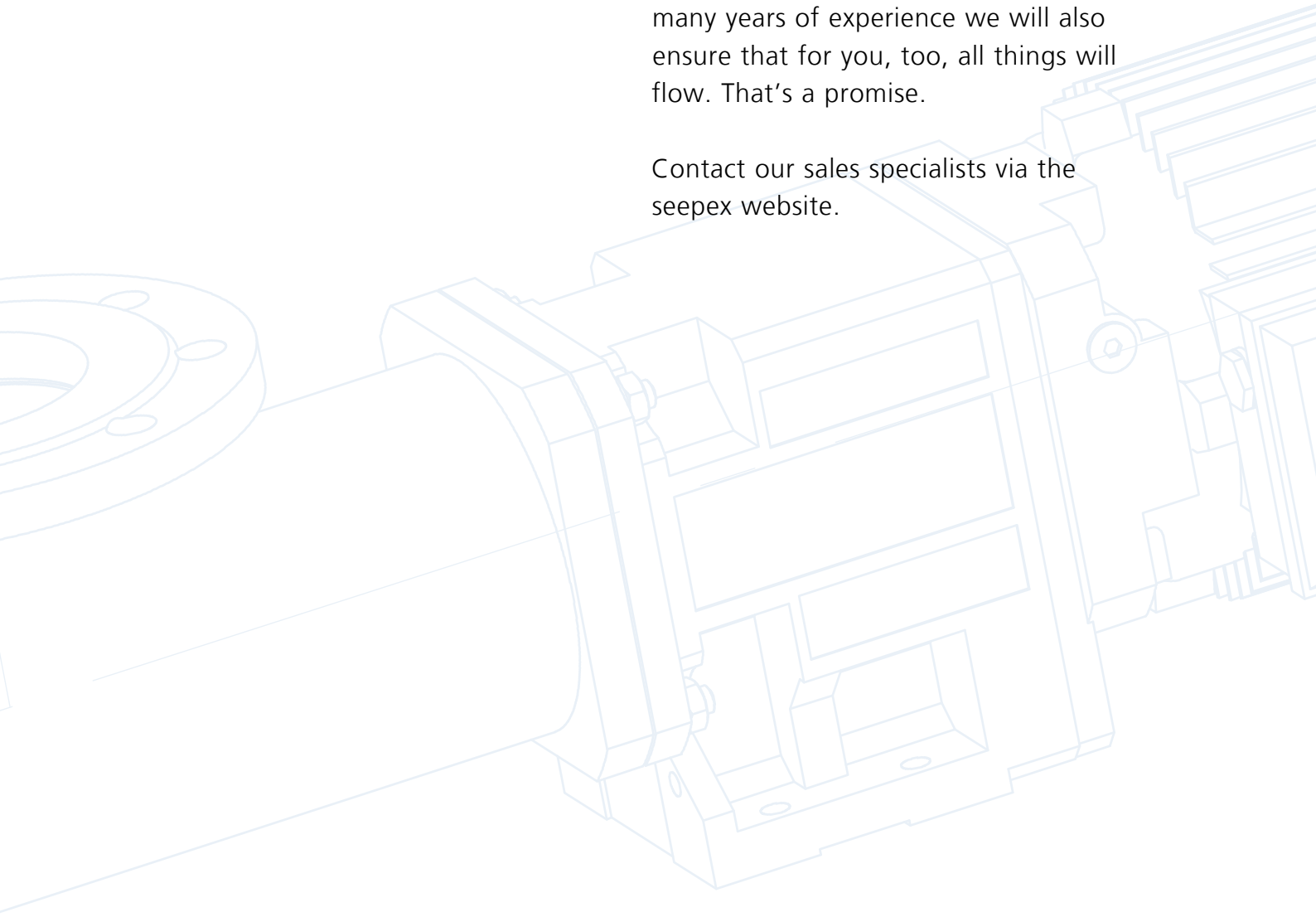
Innovation is the basis of our success. As a leading international provider of products and services in pumping and treatment of products, the development of technology is of great importance to us. We were convinced of the performance of “Smart Stator Technology” from the very first development steps for economic and ecological reasons.

More than 630 employees worldwide have an unanimous opinion on the divided stator: Only a smart technology is a good technology.

Time Matters

Ask our experts for an offer that will also convince you about the benefits of “Smart Stator Technology”. Based on our many years of experience we will also ensure that for you, too, all things will flow. That’s a promise.

Contact our sales specialists via the seepex website.



seepex.com
all things flow

And what can we get flowing for you? Your nearest contact:

Or visit www.seepex.com

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