

SCC
air compressors

Oil Free, Water Injected, Screw Compressor

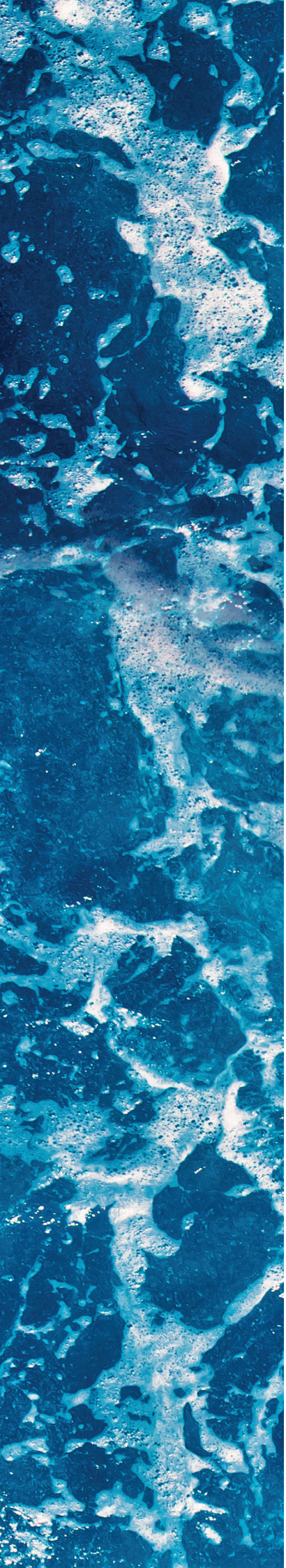
AQUARIUS

15-75 kW



Made in Germany

Tolpec GmbH www.scc-aircompressors.com



AQUARIUS

Maximum efficiency - the oil-free genius



AQUARIUS 56

Clean and oil-free compressed air is not only a quality feature in many areas of industrial production, but also an absolute must. No compromises can be made here.

Based on decades of experience in this field, SCC has developed a new series that meets all the requirements for oil-free compressed air generation. The AQUARIUS series relies on water-injected screw compressors, which means that no oil (or other lubricant) is required for the compression process. The water is taken from the ambient air and no fresh water including water treatment is required.

The AQUARIUS compressors meet all requirements for pure, oil-free compressed air with maximum efficient compression and thus excellent energy balance. The speed control also helps to save energy by adapting the power to the actual demand.

Our aim is to make our contribution to reducing the C02 footprint through improved technology and the highest demands on energy efficiency. For this reason, we continue to work on new solutions for compressed air generation at our location in Wendlingen near Stuttgart.

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The advantages for our customers:

+ Oil-Free Compression

The compressor in the Aquarius series produce 100% oil-free compressed air according to ISO 8573-1 Class 0.
Low temperatures in the compression process increase energy efficiency.
Impurities such as dust particles are washed out by the water.
The screw compressor block is made of bronze and therefore does not corrode.



Air End

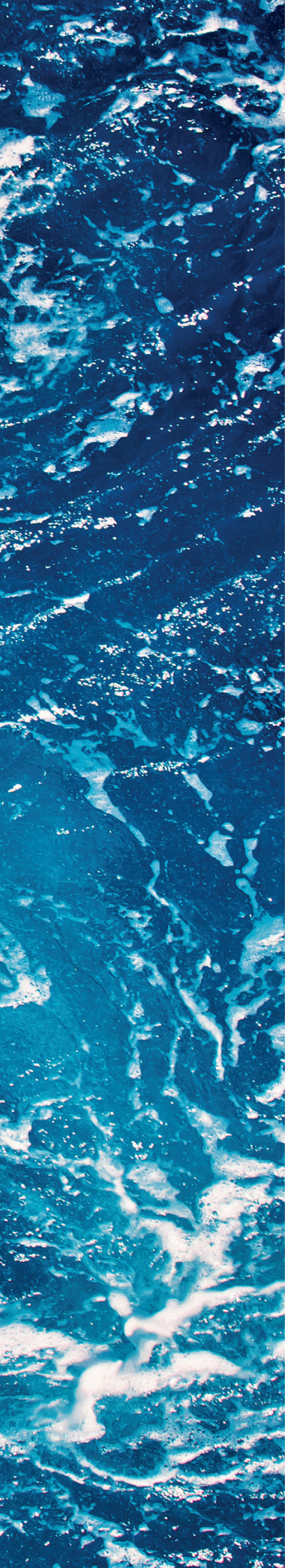
+ Permanent Magnet Motor

Permanent magnet motors (PM motors) are characterized by a significantly better efficiency compared to the asynchronous motors used as standard.
Our PM motors have an efficiency better than efficiency class IE4 according to Standard EN 60034-30:2009 and thus offer the best possible energy efficiency for industrial motors today.



Permanent Magnet Motor

Made in Germany



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+ Maximum Efficiency Through Direct Drive

Our AQUARIUS compressors are all „directly“ driven, i.e., the motor is directly connected to the compressor element.

This avoids efficiency losses in power transmission from the motor to the compressor element in the order of up to 2%. In addition, we reduce maintenance costs because no power transmission components such as gearboxes or belts which need to be replaced.



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+ Intelligent Control

SCC controllers already have many functions as standard.

For example, the connection of the controller to higher-level monitoring systems or controllers is not a problem, as this is already pre-installed. There is also the possibility to connect up to 10 compressors to our standard SCC controller.



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+ Noise Levels

The low speed of the compressor element and an optimised guidance of the cooling air, result in very low noise levels.



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Warranty: 2 years or 5 years as an option

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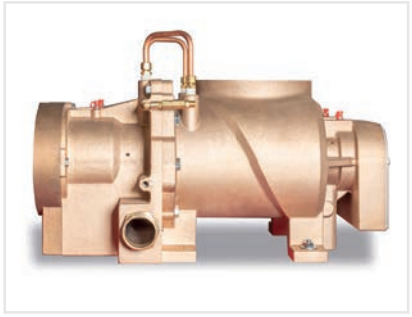
The Oil-Free Genius



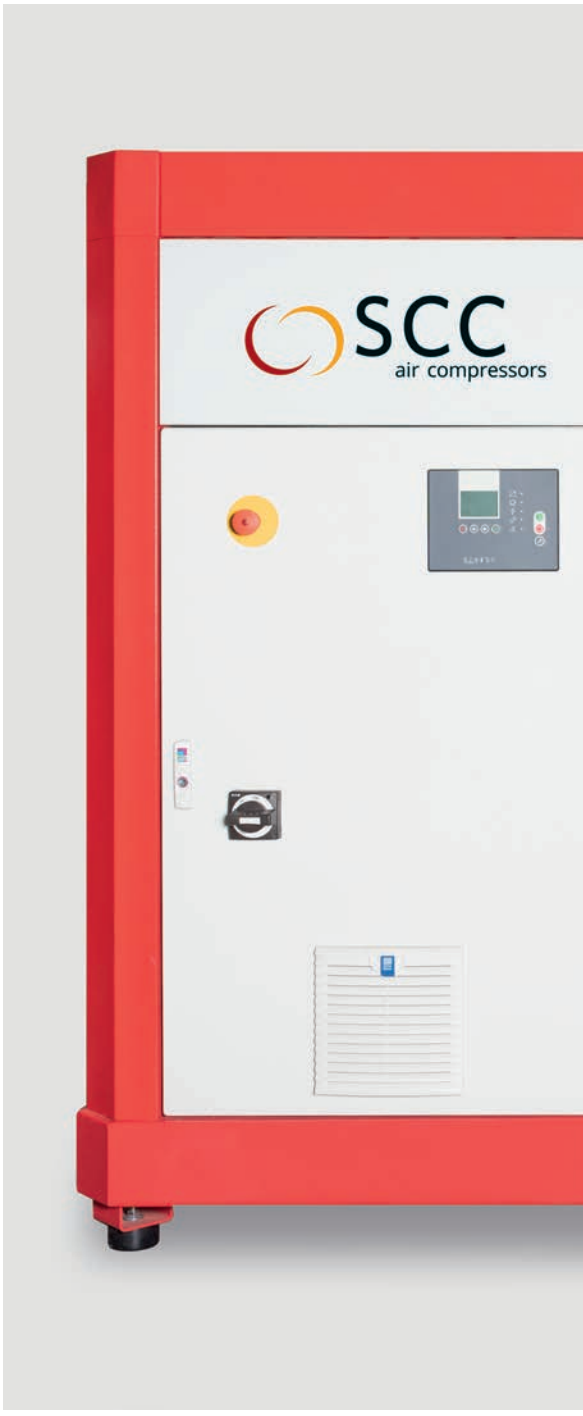
The minimum pressure valve also acts as a check valve and prevents compressed air from being in the water system. The housing and corrosion-resistant materials allow the valve to operate smoothly over a very long period of time.



A large intake filter reduces the pressure loss in the sucked-in air and guarantees a long service life.



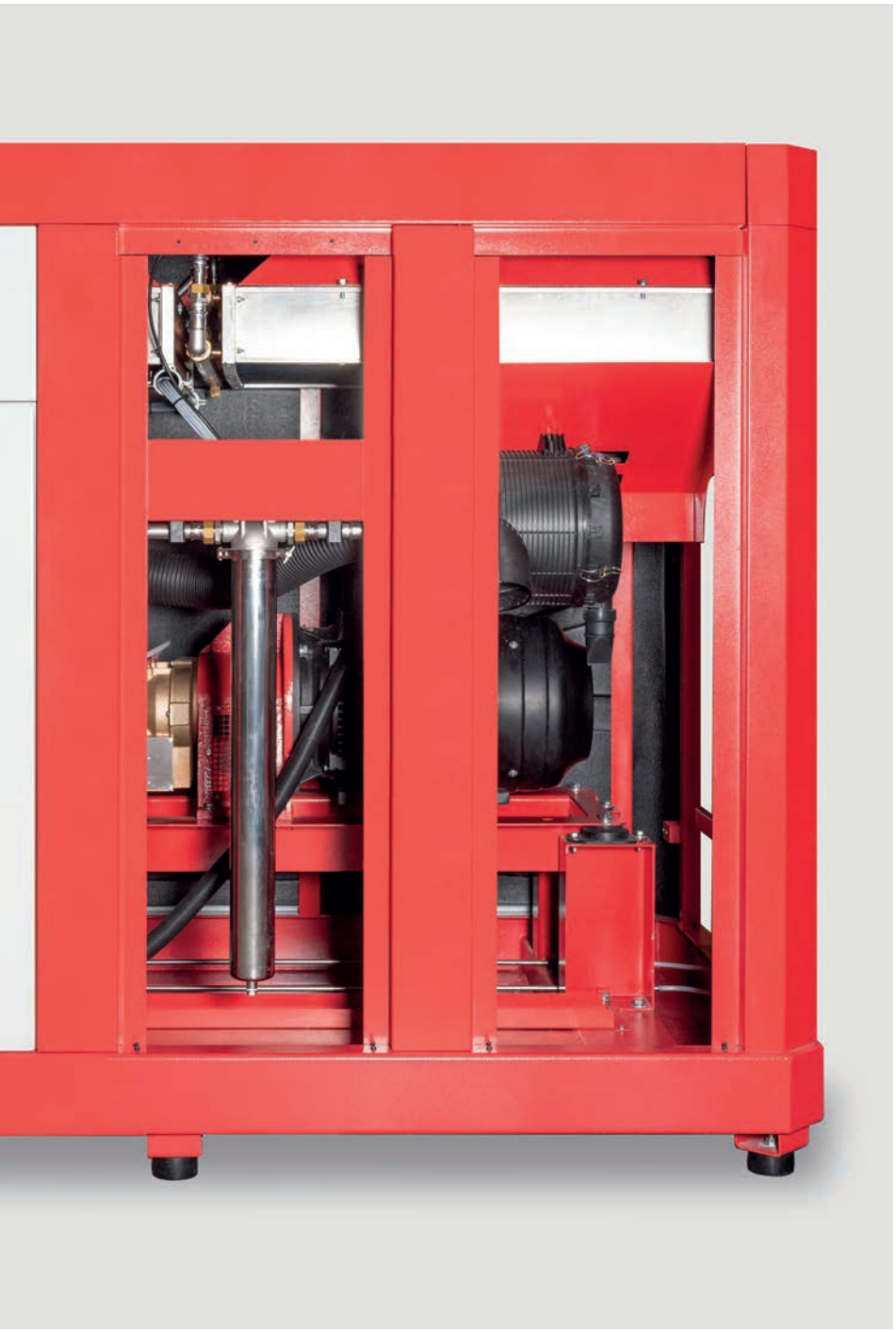
The compressor element works highly efficiently and, in contrast to dry systems (dry rotors), does not lose efficiency over its service life.





Permanent magnet motors with efficiency class IE4 offer the best possible energy efficiency.

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With its intuitive user guidance and its many functions, the intelligent control system offers all the possibilities of using the compressor to adapt optimally to the current operating situation.



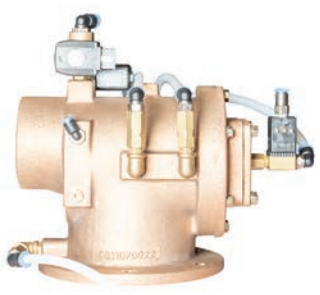
The stainless steel tank is designed so generously that the water can cool down accordingly and low operating temperatures ensure high energy efficiency of the compressor.



The sacrificial anode protects the functional parts made of metals other than bronze against contact corrosion.

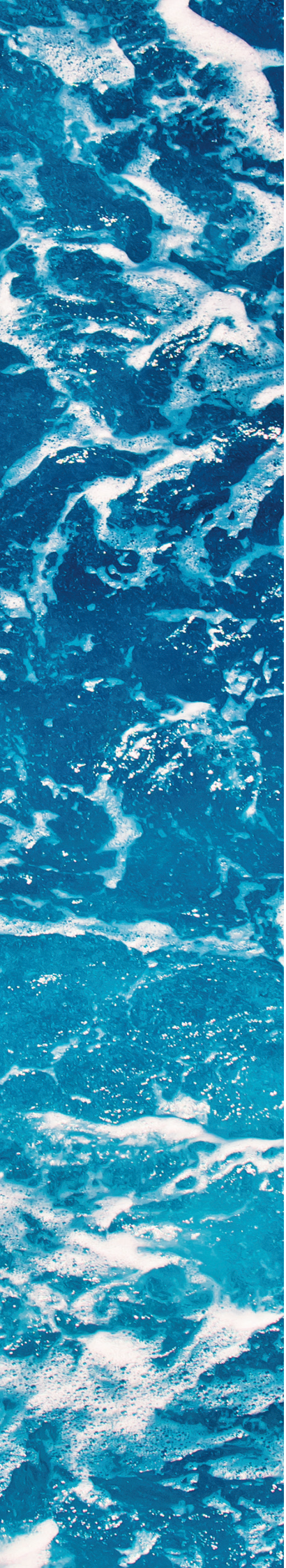


The generously designed water filter ensures the necessary quality of the water and guarantees a long service life.



The intake regulator is also made of bronze and is designed for an extremely long service life.

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AQUARIUS 75

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+ Accessibility For Maintenance Work

When developing new compressors, we attach particular importance to the accessibility of compressor components for maintenance work. This reduces the time for maintenance work and makes it easier for service technicians.

+ Highest Reliability

With the optional heat recovery, you make your compressor even more efficient through integrated heat exchangers and save additional costs by using the heat directly in the form of hot water.

+ Low Noise Levels

The low speed of the compressor blade and an optimally adapted guidance of the cooling air result in very low noise levels.



AQUARIUS 75



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Oil Free, Water Injected Screw Compressor AQUARIUS

Model	Nominal power	Flow		Dimensions			Weight	Sound level
		8 bar	*10 bar*	*Length*	*Width*	*Height*		
	[kW]	*[m³/min]*		*[mm]*	*[mm]*	*[mm]*	*[kg]*	*[dB(A)]*
AQUARIUS 15	15	0,50 - 1,90	0,45 - 1,52	1.650	980	1.850	1.000	69
AQUARIUS 18	18,5	0,50 - 2,45	0,45 - 2,06	1.650	980	1.850	1.050	70
AQUARIUS 22	22	0,50 - 3,00	0,45 - 2,60	1.650	980	1.850	1.110	70
AQUARIUS 30	30	0,50 - 3,78	0,45 - 3,34	1.650	980	1.850	1.200	73
AQUARIUS 31	30	1,25 - 4,34	1,24 - 3,72	2.014	1.500	1.700	1.400	70
AQUARIUS 37	37	1,25 - 5,28	1,20 - 4,64	2.014	1.500	1.700	1.450	71
AQUARIUS 45	45	1,25 - 6,40	1,20 - 5,50	2.014	1.500	1.700	1.550	74
AQUARIUS 46	45	2,72 - 7,67	2,61 - 6,64	2.448	1.330	1.930	1.950	73
AQUARIUS 56	55	2,72 - 9,43	2,61 - 8,08	2.448	1.330	1.930	2.000	76
AQUARIUS 75	75	2,30 - 12,00	2,10 - 10,40	2.448	1.330	1.930	2.050	79

Performance data according to ISO 1217, Annex C
Technical changes and errors excepted

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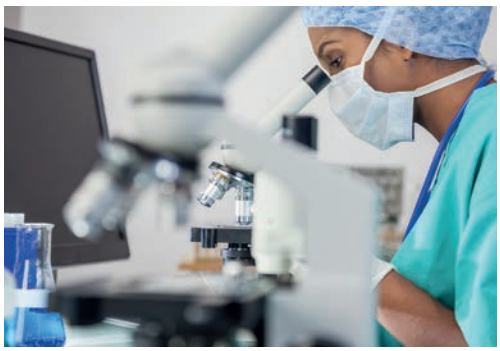


AQUARIUS

Application in Industry

Our compressors in the AQUARIUS series are used wherever absolutely oil-free compressed air (< 0.01mg/m³) is required :

- in hospitals
- in the production of pharmaceutical products
- in the beverage industry
- in breweries
- in the food industry
- in the production of electronic components
- in the painting industry
- and many more







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„Made in Germany“ at the headquarters in Wendlingen near Stuttgart.

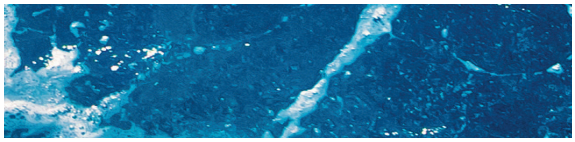
Made in Germany is not only a designation of origin for us. As a German company, it is important to us to develop and further develop our compressors in Germany. Our products „Made in Germany“ impress with their excellent quality and their advanced technology. But also the environmental aspect is not neglected, so we generally design the machines in such a way that a long service life is guaranteed and all efficiency criteria in the near future are achieved.

In addition to a large number of oil-lubricated screw compressors , we also manufacture project-related compressors and our oil-free screw compressors at our location in Wendlingen near Stuttgart.

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ISO 9001 Zertifiziertes Qualitätsmanagementsystem
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