



Dependable Air Power

Since 1938





Our mission

We were there when the sea got rough. When the minutes felt like hours and nothing went fast enough. We were there when you needed us the most – and, before you knew you needed us at all.

Decades later we are still here. Because dependable air power is our personal mission.

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Pioneering Air Power

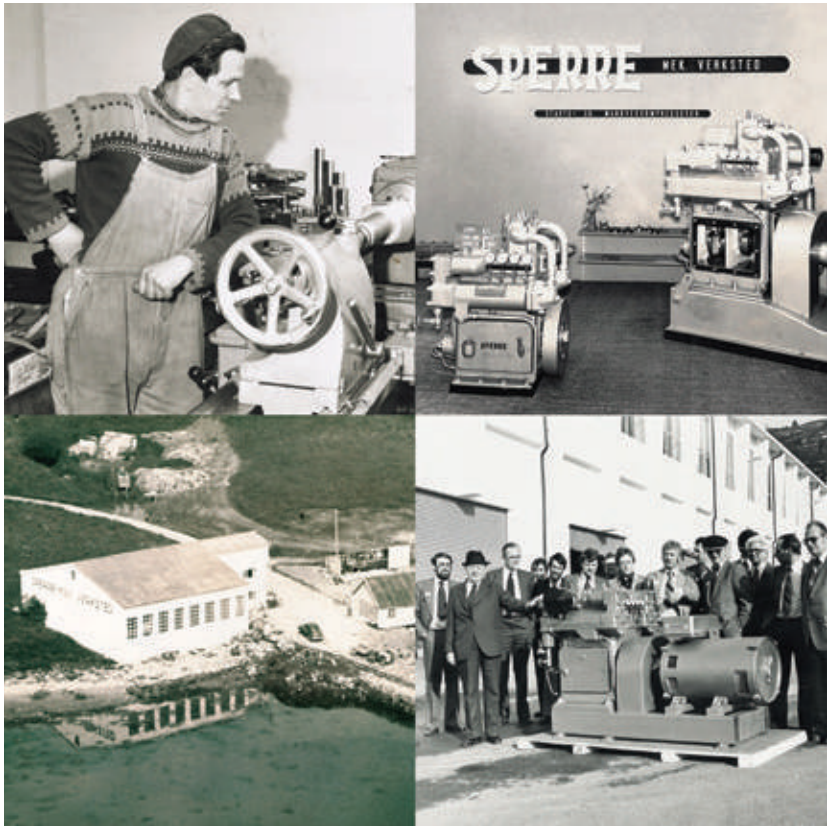
Sperre is a global maritime tech company based in Ålesund, Norway. We develop, produce, deliver and service compressed air systems.

Our products and in-operation services are the benchmark of the industry. We have been in operation since 1938, and today our solutions are found on every 5th ship sailing the World's Oceans.

Our heritage

The maritime industry in the Aalesund region dates back to the 19th century and today it is the home for over 220 maritime companies. Here, between rugged mountains and harsh waters, some of the most advanced offshore vessels worldwide are developed.

We are proud to have been located in the leading maritime cluster since the very beginning – surrounded by pioneers. Together with our clients we find new ways, specialize our skills and develop tomorrow's solutions.



Milestones
in history

1938

The first hand operated compressor



1944

The K1 compressor



1947

The K3 compressor



1966

The water-cooled HV series



1976

The air-cooled HL series



2010

The new X-Range compressor



2015

Containerized solutions



2019

Screw air compressor



2019

Compressed air system solutions



Your life cycle partner in dependable air



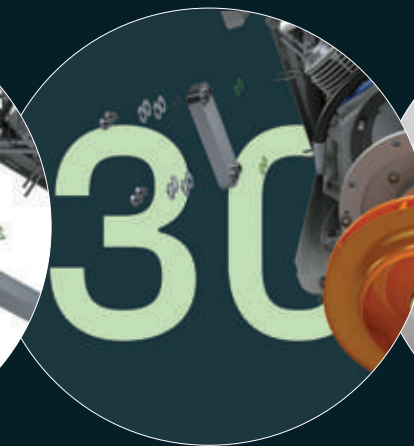
In operation support



Sperre 24/7
service



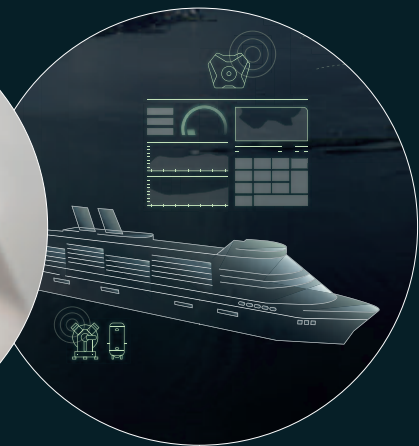
Any part to
any place
within
48 hours



30 years spare
part availability
for piston
compressors



Retrofit
compressors
in stock



Innovative
thinking

[illegible]

We make maintenance easy

Our compressors are designed to last. Follow our preventative maintenance routines and get dependable air power for the lifetime of your vessel or plant in return. After all, durability is the basis for our outstanding reputation. As part of our life cycle support, we guarantee 30 years of spare parts availability.

Digital Maintenance Plan.
We have developed digital information for all service intervals, combined with complete service kits, for easy implementation into your planned maintenance system.

Prevent breakdown.
With our preventative maintenance program you avoid breakdowns. Follow the routines and receive dependable air power for the lifetime of your vessel.

Guided installations.
All spare part kits include an easy to use installation guide. This makes it easy for your crew to follow our maintenance routines without any service personnel.

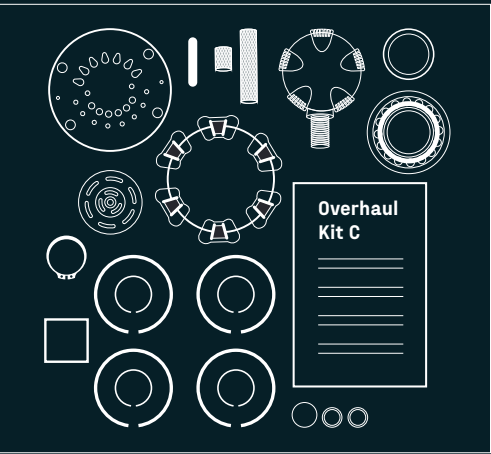
Original spare parts.
It's crucial to use only original spare parts during the maintenance. Every part described in our installation guide shall be replaced with a new part from the spare part kit.

Any part to
any place
within 48
hours

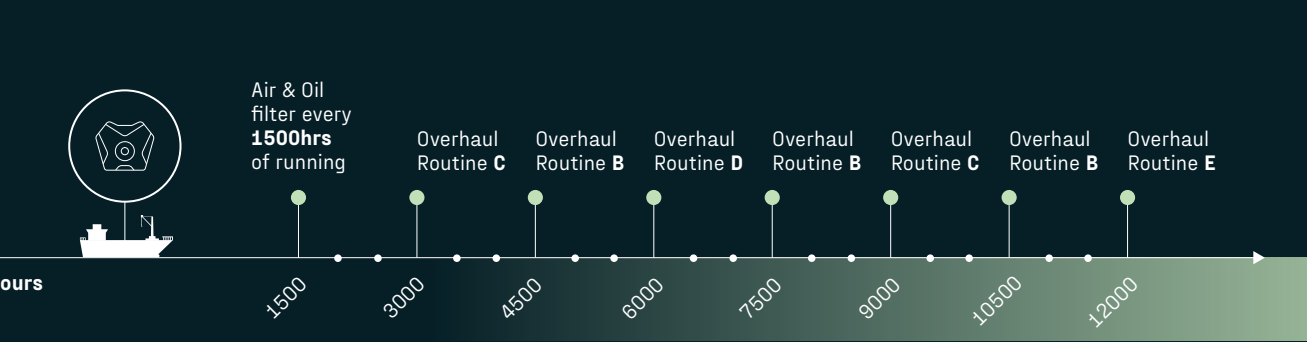
Our spare part kits

The safest and most economical way to run a Sperre compressor is to follow our maintenance routines using original spare parts. With our spare part kits you always have all the necessary parts at hand.

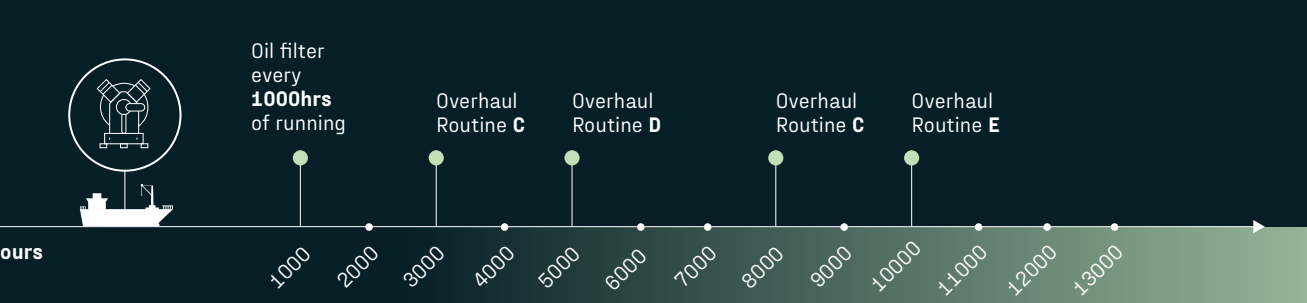
Every kit contains installation instructions guiding you through each step. That way your crew can change the parts in no time. This makes maintenance easy and predictable.



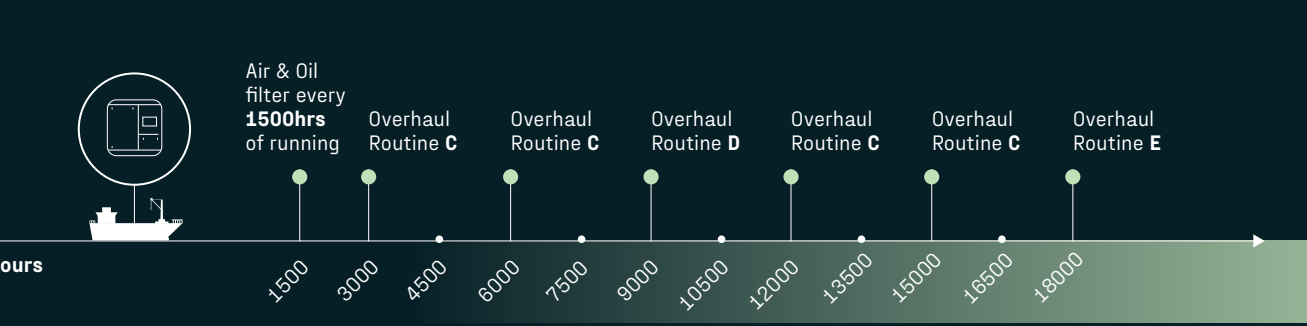
Sperre X-Range*



Sperre Classic*



Screw Compressors*



*Service schedule and content varies depending on compressor model

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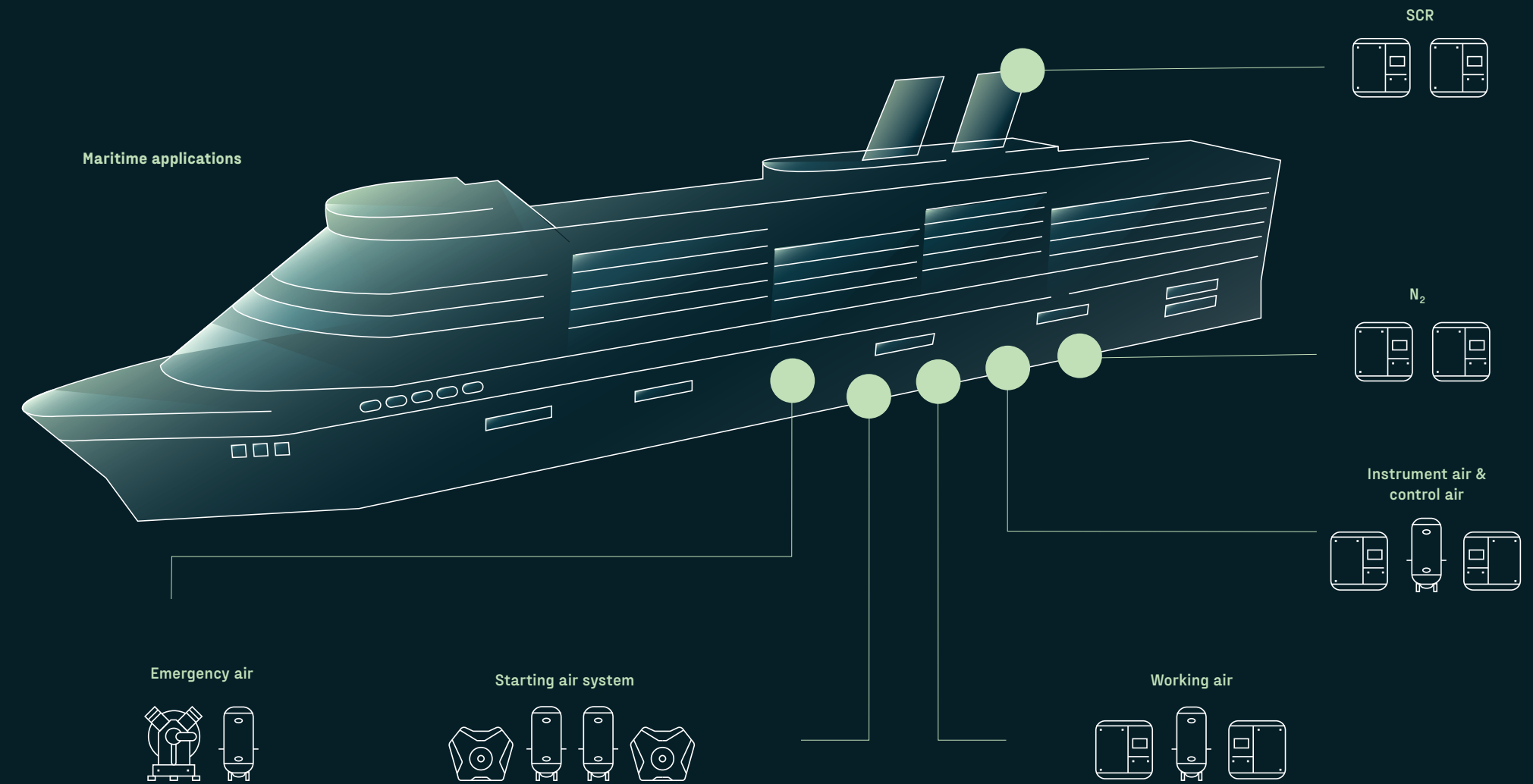
We work hard to provide the best service. The spare part kits makes that easier, while prolonging the lifetime of our compressors.”

— Jan Erik Skotte



Optimize the air system solution for your vessel

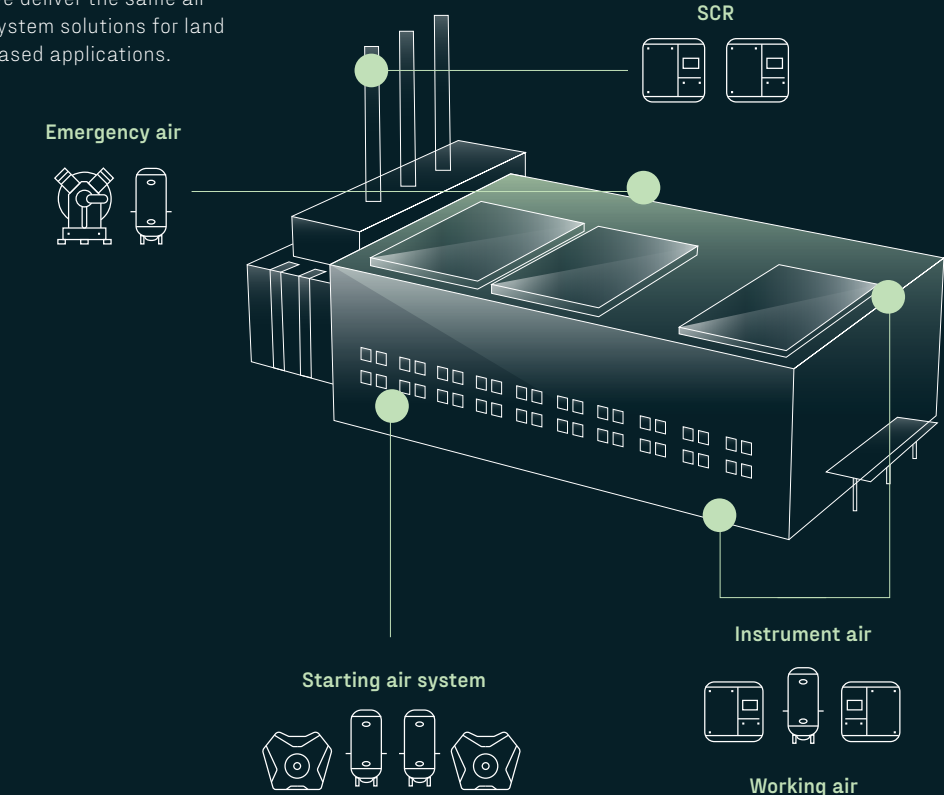
Each vessel is unique and it's our mission to develop, produce, deliver and service dependable air power – no matter the needs. Our air system solutions play a key role to keep your system running as smooth as possible.



With highly skilled and experienced engineers we develop air system solutions tailored to your specifications. Our technical experts are your best discussion partners and make sure to optimize both size and capacity.

Leave it all to us and we will manufacture the equipment as specified. When delivered the solution is complete with piping, air receivers and electrical systems – tested, classified and ready for plug-in installation.

Land based applications
We deliver the same air system solutions for land based applications.



Compressors perfected over decades

Our compressors are our flagship products, perfected for more than 80 years and built to last. Whether you need a reliable high pressure compressor to get things going or a durable companion delivering working air, we got it.



Starting air

High pressure compressors

Our most powerful compressors are built to provide high performing air power.



Sperre X-Range

The Sperre X-Range is a high performing and innovative compressor, designed to deliver dependable and high pressured air power.



Sperre Classic

The Sperre Classic has proved its durability and functionality through decades. The Classic runs for the lifetime of your vessel and longer.

Working air

Low pressure compressors

Compressors designed to deliver continuous and reliable air power.



Screw Compressors

Sperre screw compressors are the natural choice for installations where a large volume of low pressure compressed air is needed.

Dryers, filters and receivers

Air treatment

Air quality of your compressed air is crucial for the performance of your operation.



Dryers & filters

Proper filtration and drying aligned with system requirements and ambient conditions reduce impurities and humidity in the air system.



Air receivers

We supply air receivers according to standard drawings, in sizes from 30 to 3000 litres and with working pressure ranging from 7 to 30 bar. Choose between horizontal and vertical configurations, or manufactured to your specifications.

80 years experience in two stage piston



- + Less moving parts with 2 stage.
- + Less parts to be changed.
- + Same service concept – maintenance kit.
- + Designed for easy installation.
- + Same controller for all piston compressors.

Z-Control: Everything you need on one screen

The Z-Control is our new generation compressor controller which provides improved functionality for the Sperre X-Range and Sperre Classic. With a 7" touch screen, operation is made easy and intuitive. The new Eco-mode for sea and harbour runs the compressor with less strain to save power and fuel.



Designed for durability

The Sperre X-Range is a high performing and innovative compressor, designed to deliver dependable and high pressured air power. Thanks to fewer movable parts, the Sperre X-Range compressors demand less maintenance, reduces footprint and cost.

Future-proof design.

As a result of our history, the Sperre X-Range is designed for the future – ensuring less energy consumption, longer durability and a smaller footprint. The modular system means fewer parts, higher reliability and less maintenance.

No hot surfaces.

Our X-Range compressor is built with fully enclosed structure which means it protects the operator against hot surfaces and rotating parts.

Cleaner air.

The enclosed structure doesn't only protect your crew – it protects the environment. With X-Range there's no oil mist going out and the overall oil content of the compressors are reduced by 50%.



Optimizing airflow

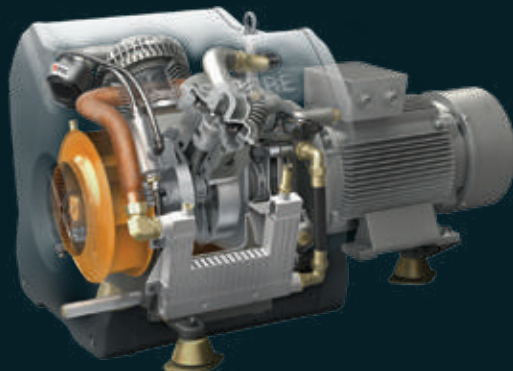
The Sperre X-Range is a plug-and-play compressor designed to optimize airflow and enhance the cooling efficiency.

The radial fan increases the air intake by 20%. This results in an outlet air approximately 25°C above ambient, for air cooled compressors. For water cooled compressors 10–15°C above cooling water inlet temperature.

55°C ambient

Air-cooled or water-cooled

At Sperre we always develop solutions based on our customer's needs. That's why you can choose between an air-cooled or water-cooled X-Range without losing any of the benefits.



Air-cooled X-Range



Water-cooled X-Range

Plug & play

Information and warnings from up to seven checkpoints inside the X-cover collected in one plug-in cable.



Easy installation

Thanks to innovative design, the X-Range is both easy and safe to install and operate.

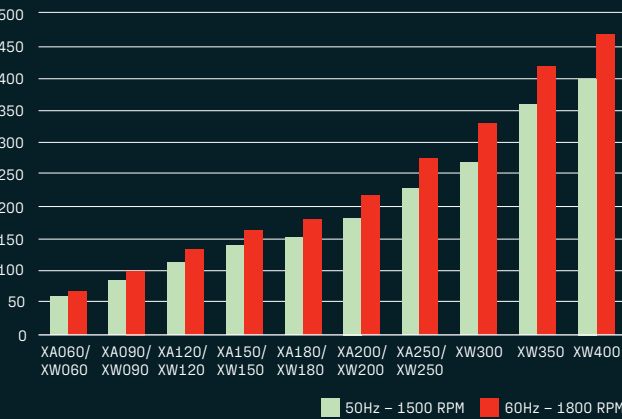
Easy to remove cover One lifting point



Three point footprint

Specifications

Compare charging capacity and view tech specs for each model



X-Range			
Air-cooled	Water-cooled	50 Hz 1500 RPM*	60 Hz 1800 RPM*
XA060 →	XW060 →	60	70
XA090 →	XW090 →	85	100
XA120 →	XW120 →	115	135
XA150 →	XW150 →	140	165
XA180 →	XW180 →	152	180
XA200 →	XW200 →	185	220
XA250 →	XW250 →	230	275
	XW300 →	270	330
	XW350 →	360	420
	XW400 →	400	470

* All capacities in m³/h

Trusted & renowned

The Sperre Classic is the world’s most renowned maritime compressor. It has been perfected in demanding working conditions over decades. No wonder it is the most frequently chosen compressor on the world’s oceans.

No loose parts.

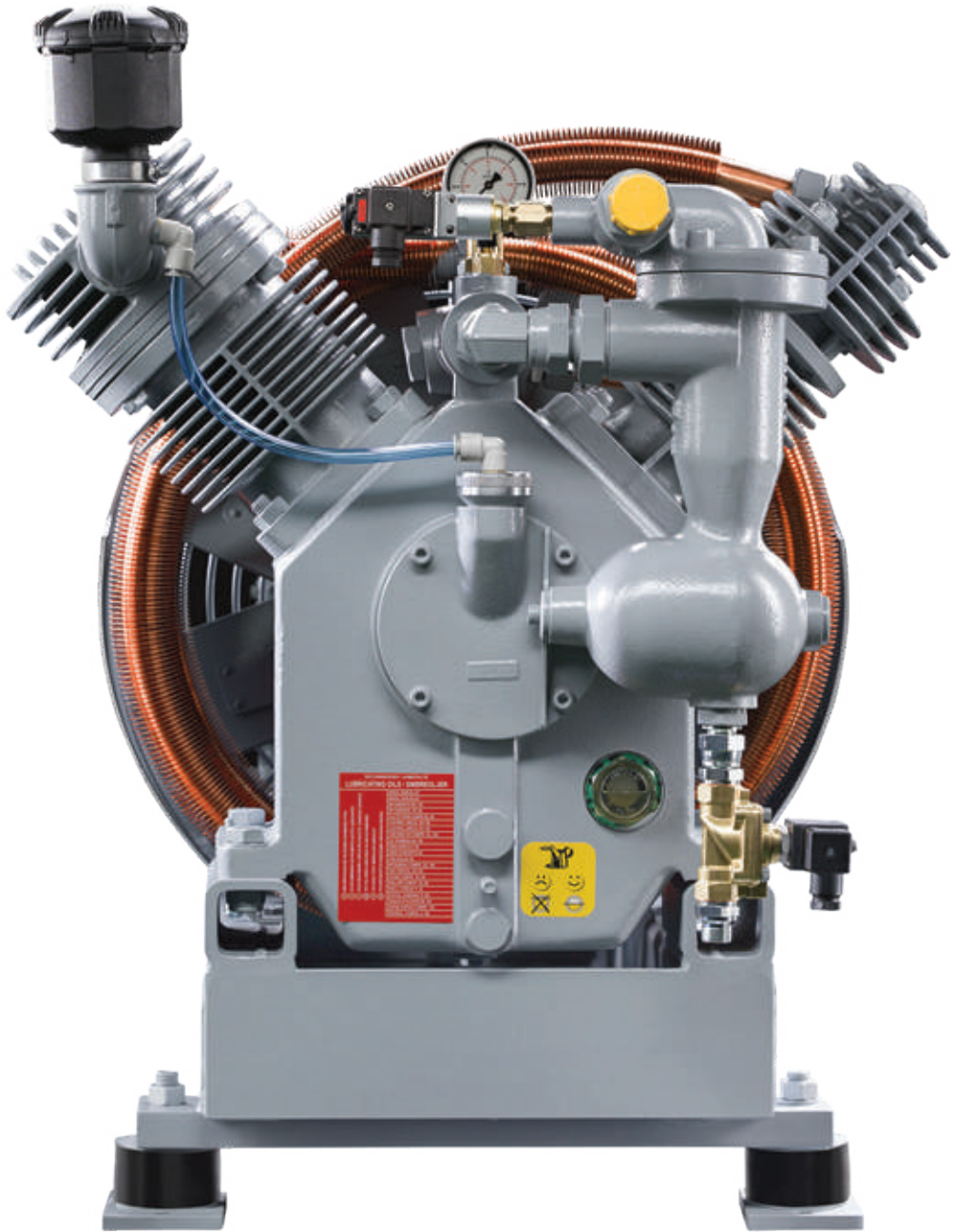
No loose parts means lower installation cost and a safer work environment for your crew.

Trusted.

The Sperre Classic has been perfected over decades and have a unique reputation. It is by far the most frequently chosen compressor on the world's oceans.

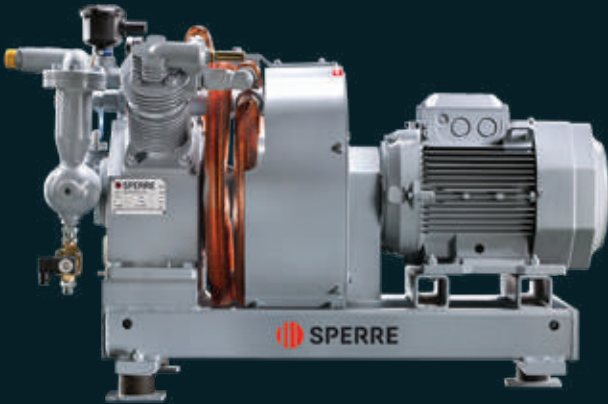
Smart Eco-mode.

The new Eco-mode runs the compressor with less strain to save power and fuel.



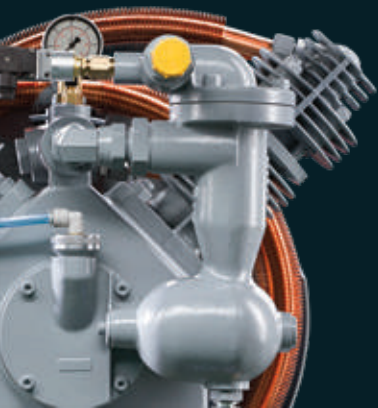
Easy to operate

There's no need for special training to run the Sperre Classic. The compressor is dependable and easy to operate. Follow our preventative maintenance routines and get high performing air power for the lifetime of your vessel.



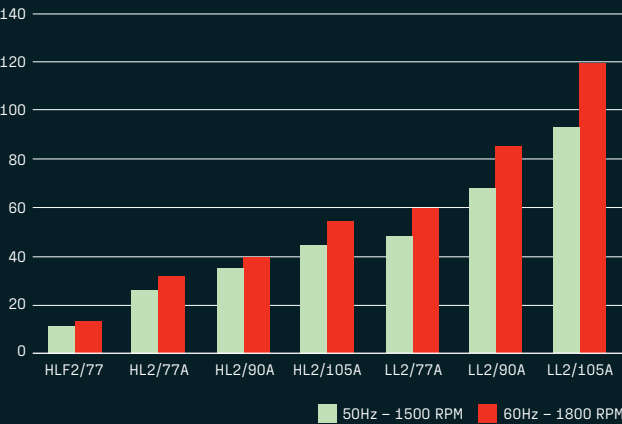
Built-in oil separator

The Sperre Classic contains a built-in cyclone separator providing you substantial savings.



Specifications

Compare charging capacity and view tech specs for each model



Classic		
Starting air (30 bar)	50 Hz 1500 RPM*	60 Hz 1800 RPM*
HLF2/77 →	11	13
HL2/77A →	26	32
HL2/90A →	35	40
HL2/105A →	45	55
Working air (7-10 bar)		
LL2/77A →	49	60
LL2/90A →	68	86
LL2/105A →	93	120

* All capacities in m³/h

Convenient and secure

Our screw air compressors have few moving parts and are designed with everything in one complete cabinet. Ensuring a safer work environment, reduced risk of oil leakage and easy maintenance.

Cooling.

Internal air-circulation ensures efficient cooling of heat-affected components.

VFD – Saving energy and cost.

Our Variable Frequency Drive model changes the motor speed in accordance with the airflow demand, saving both energy and cost.

Lower power consumption.

Our screw compressors ensure high output and lower power consumption.



Easy installation
and operation

Sperre compressors can be installed without the use of special tools. A removable fully enclosed cabin protects both compressor and crew and reduces noise levels.

Drive system

Belt drive technology is employed for our screw compressors in the S05–S45 range. For the larger models in the S55–S90 range, coupling with gearbox is used.



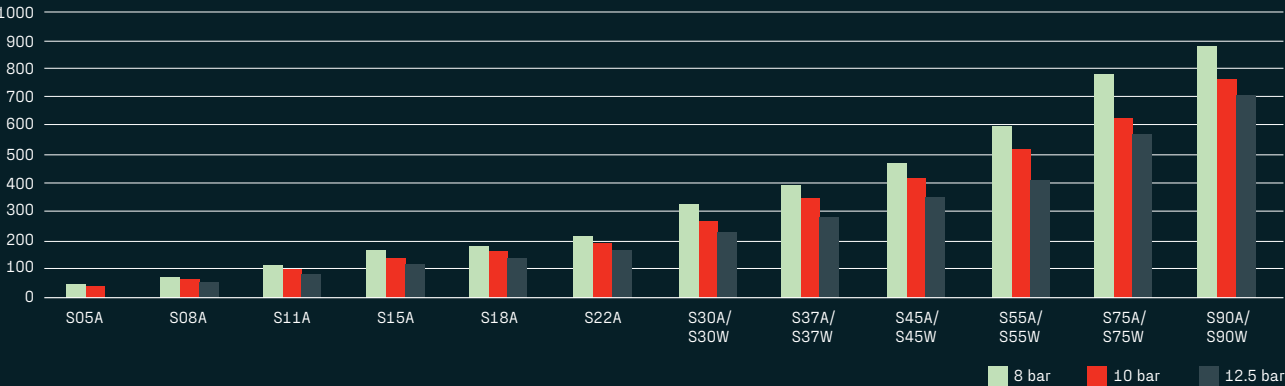
Built-in oil separator

With a user friendly design made for easy maintenance and Sperre's renowned service concept, maintaining our screw compressors are convenient. We provide maintenance schedule with service kits according to running hours to give you peace of mind regarding maintenance of the screw compressors at your installation.



Specifications

Compare charging capacity for each model



Fixed speed				
Air-cooled	Water-cooled	8 bar	10 bar	12.5 bar
S05A		61	41	
S08A		72	63	51
S11A		113	99	77
S15A		162	138	114
S18A		174	162	132
S22A		210	192	162
S30A	S30W	324	270	222
S37A	S37W	390	348	276
S45A	S45W	468	420	348
S55A	S55W	600	522	408
S75A	S75W	780	630	570
S90A	S90W	882	768	708

VFD				
Air-cooled	Water-cooled	8 bar	10 bar	12.5 bar
S11A-VFD		68-113	59-99	46-77
S15A-VFD		97-162	83-138	68-114
S18A-VFD		104-174	97-162	79-132
S22A-VFD		126-210	115-192	97-162
S30A-VFD	S30W-VFD	194-324	162-270	133-222
S37A-VFD	S37W-VFD	234-390	209-348	165-276
S45A-VFD	S45W-VFD	280-468	252-420	209-348
S55A-VFD	S55W-VFD	254-600	209-522	162-408
S75A-VFD	S75W-VFD	312-780	252-630	228-570
S90A-VFD	S90W-VFD	354-882	306-768	282-684

The air flow (FAD) is tested as per the requirement in ISO1217 standard (GB/T3853) under the load condition of the unit. The model can be ordered either as a 380V/50Hz version or as a 440V/60Hz version. All capacities in m³/h.

High-end air treatment

Proper filtration and drying aligned with system requirements and ambient conditions reduce impurities and humidity in the air systems. Sperre delivers customized packages for all compressed air solutions needed onboard the vessel, or on the plant.

Certified solutions.

The solutions obtain all purity classes according to ISO 8573-1:2010 – for both low and high pressure systems.

Why air quality is so important.

In a compressed air system there are several functions and processes that consumes compressed air. The quality of your compressed air is crucial for the performance of your solution.

“

It’s like the difference between breathing on a dusty construction site, and in the middle of a healthy forest”

— Ole Nustad, CEO Sperre

Refrigerant dryers

Refrigerant air dryers are designed to efficiently separate water from compressed air systems with pressure dew points rated at +3, +5, +7 & +10 °C in accordance to ISO8573-1. Condensed water is separated from the main compressed air stream which enables efficient and reliable operation, fast installation and simple maintenance.

In addition to this, we also deliver a wide range of cyclone separators and air filters for removal of solid particles, water and oil aerosols according to ISO8573-1. Through our expertise, we calculate dryer and filtration sizes according to your scope.



Adsorption dryers

Heatless regenerated adsorption dryers are designed for continuous separation of water vapour from compressed air thus reducing the dew point rated at -25, -40 & -70 °C (Max 16 bar) and -25, -40 & -55 °C (Max 50 bar) in accordance with ISO standards.

The adsorption dryer consists of two columns, filled with desiccant and designed to operate alternately. Adsorption takes place under pressure in the first column while the second column regenerates.

In addition to this, we also deliver a wide range of cyclone separators and air filters for removal of solid particles, water and oil aerosols in accordance with ISO8573-1.



Filters

Incorrect filtrations will impact conditions such as corrosion, piping system, pneumatic performance, valves and regulators. Ensuring proper filtration and drying will have a significant impact on your maintenance costs.

Our filtration systems are aligned with system requirements and ambient conditions, resulting in reduced impurities and humidity in the air system. We deliver filters to obtain all purity classes according to ISO 8573-1:2010 for both low and high pressure systems.



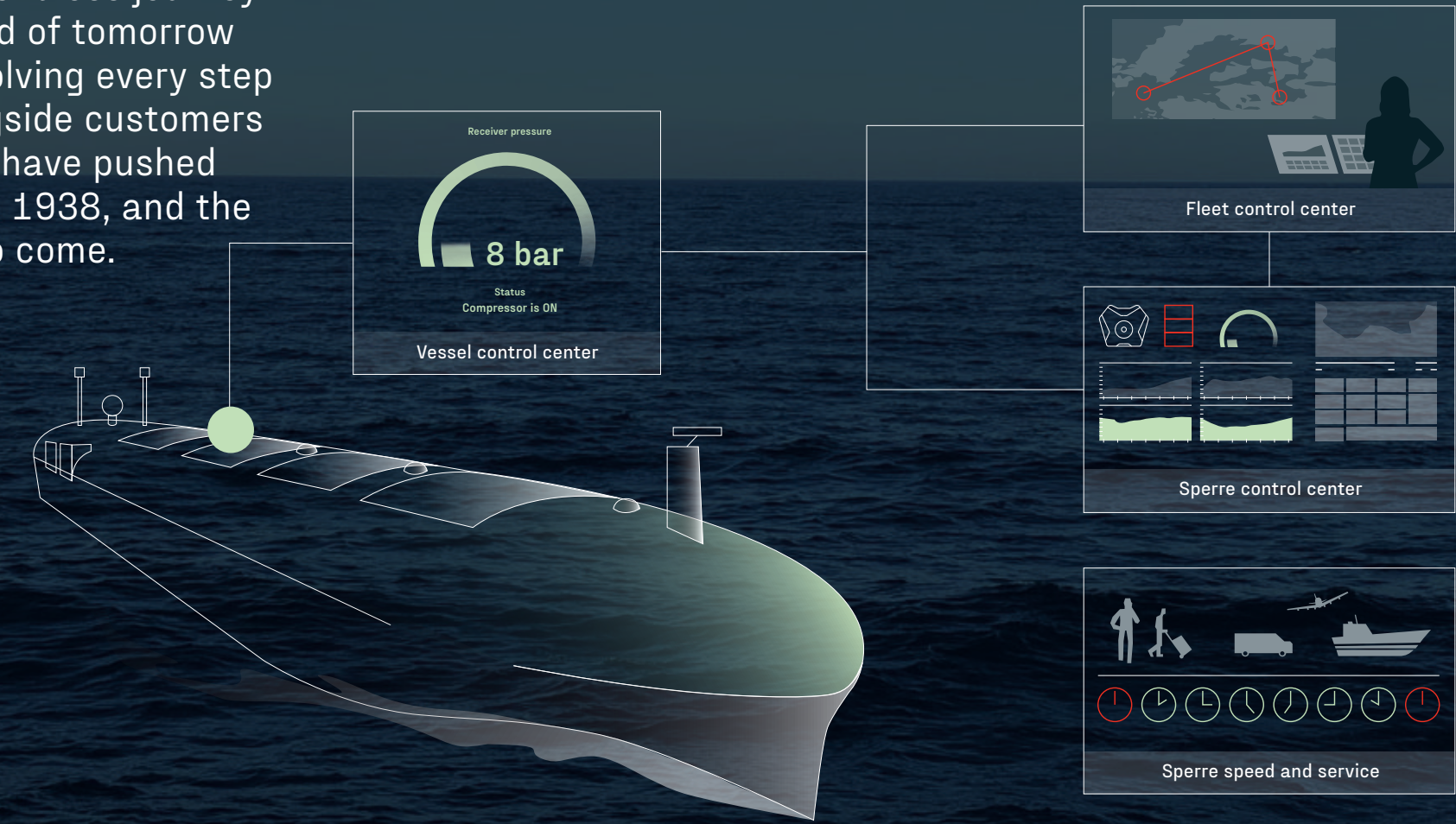
Air receivers

We supply air receivers according to standard drawings, in sizes from 30 to 3000 litres and with working pressure ranging from 7 to 30 bar. Choose between horizontal and vertical configurations, or manufactured to your specifications.



A new industry on the rise

Innovation is an endless journey shaping the world of tomorrow and Sperre is evolving every step of the way. Alongside customers and partners we have pushed boundaries since 1938, and the greatest is yet to come.



Pioneering air power

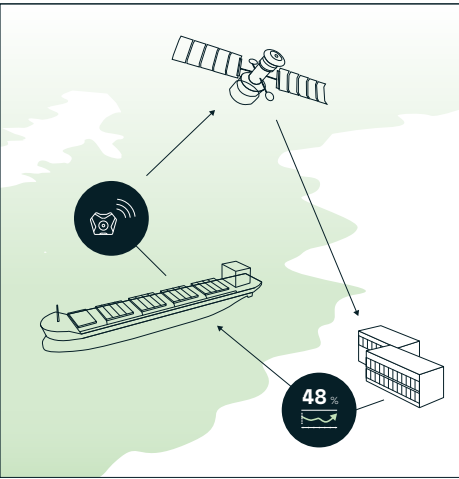
Dependable air power is our personal mission and we will never stop challenging the status quo. Our products are designed for the future – with a focus on decreasing energy consumption, prolonging durability and ensuring a smaller footprint.



Monitoring the future

Digitalization is a key part of the maritime business transformation. Ships, systems and applications require a higher degree of connectivity and smart maritime ecosystems evolved to support this journey.

Sperre compressors equipped with sensors are already sailing the world's oceans. The sensors allow us to develop new services, contributing to the future maintenance and operational needs. In addition to paving the way for new business models.



Collaboration

Surrounded by 220 maritime companies, Sperre is located in the center of a world class maritime cluster. Together we transform the industry and develop tomorrow's solutions. Because on the West Coast of Norway researchers, educational institutions, companies and ship owners share common goals and are determined to reach them.



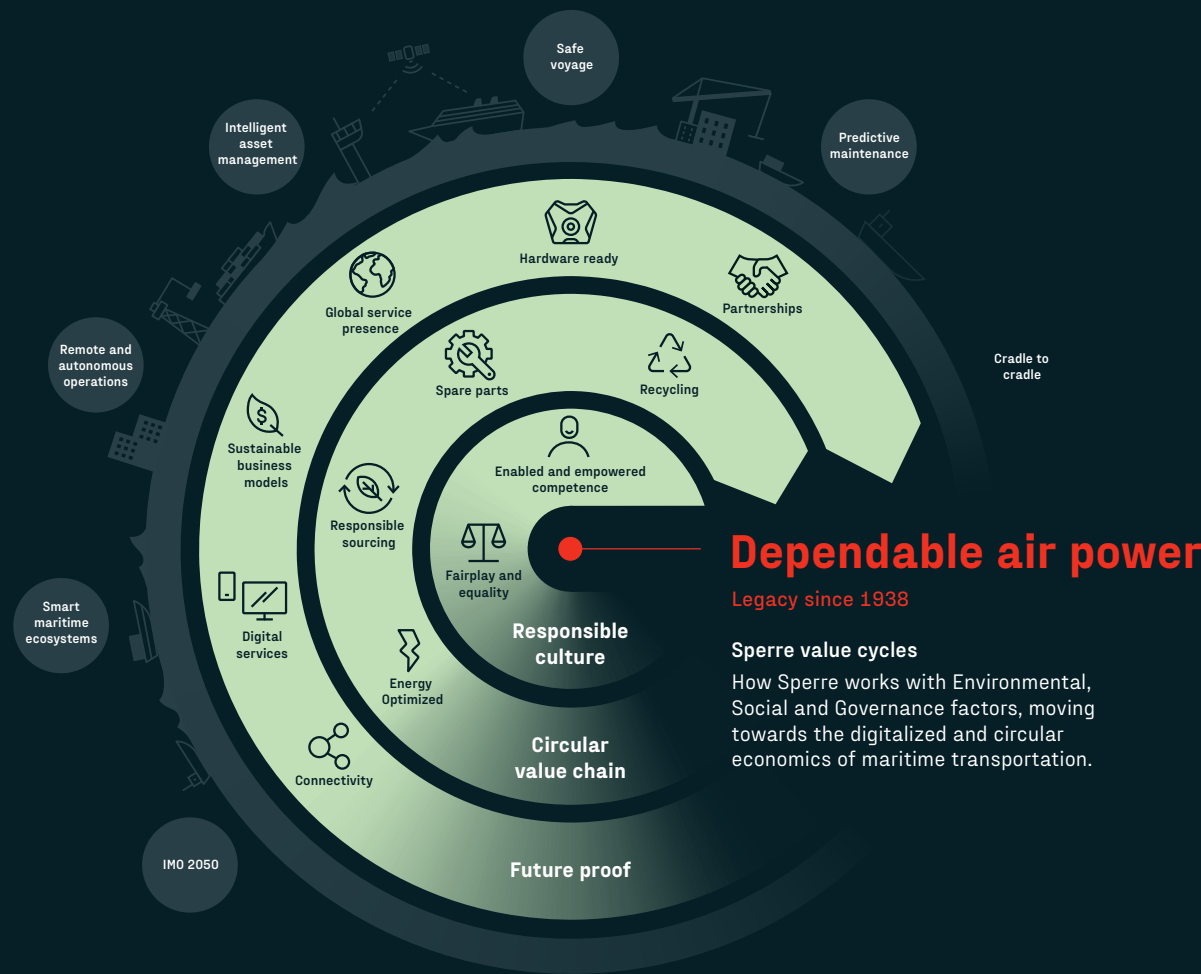
For a future-proof maritime industry

At Sperre, we learn from our heritage to prepare for the future. Emerging from a personal mission to deliver dependable air power, sustainability is an integrated part of Sperre.

Sperre Value Cycles

At Sperre, we aim to have sustainability at the core of our strategy, risk assessment and reporting structure.

How we work with environmental, social and governance factors while moving towards the digitalized and circular economics of maritime transportation, is shown in our value cycles related to the trends and external factors in our industry.



Future-Proof Service Propositions

The arrival of your new compressor from Sperre marks the beginning of a lifelong relationship. Our main priority is to increase the life of your compressor for as long as your vessel is in operation. By offering predictive maintenance, spare part kits and innovative digital solutions we can deliver dependable air power for decades.

Our air products are designed to support various maintenance services, business models and future digital solutions enabling us to deliver dependable air power for decades to come.

Circular Value Chain

Circularity is fundamental throughout our value chain and we ensure all our materials can be either repaired, reused, refurbished or recycled. Although Sperre has a 48-hour promise for service parts, we aim to encourage our customers to choose a more sustainable transportation method if their need for parts is less urgent.

Ensuring a long life span of our compressors is in the best interest of both Sperre, our customers and the environment. We have developed service intervals and spare part kits with instructions to ensure a long and economically sustainable product life for your compressor.

We support the global transition to a low carbon economy, and we take action throughout our complete value chain to reduce our carbon footprint.

There are efforts to reduce our own internal carbon footprint with the aim to have a net-zero environmental impact in the future. Our products are safe to use and we strive for a hazard-free environment in both internal and external operations.

Together with suppliers, we work to minimize the carbon footprint in packaging materials and shipment of inbound materials and goods.

Awareness, Competence & Commitment

Sperre is committed to executing our business aligned with social, environmental and ethical requirements. At the same time, we strive to drive change together with our partners and the rest of the maritime industry. We have set high standards for ourselves in order to ensure compliance with external and internal policies, procedures, laws and regulations.

By monitoring, and frequently performing audits, we secure the organization is working in line with relevant requirements.



Product Certifications

Every Sperre product is approved by all the major classification societies such as ABS, ClassNK, BV, DNV, KR, LR, RINA, CCS, RMRS among others.



Certifications

Sperre is certified according to the environmental management standard ISO 14001:2015, the quality management standard ISO 9001:2015, and the occupational health and safety standard ISO 45001:2018.

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