Your Life Cycle Partner
in air compressor system solutions

www.sperre.com
The world’s most renowned maritime compressor – proved by more than 80 years of experience

The Sperre heritage
Air compressors that solve customers’ needs have been the main objective for Sperre from the very beginning. For more than 80 years, we have developed our compressors in close collaboration with the most demanding customers around the world. We know how to meet the most stringent requirements and have the ability to supply all the air any ship needs. We deliver state-of-the-art compressor systems with the best life cycle cost. That’s the Sperre heritage.

Innovative compressor solutions
In close consultation with our customers over the years, Sperre has been able to serve the market with innovative and highly effective solutions. The first hand-operated compressor is linked to the optimized X-range by a continuous line of conceptual thinking, advanced engineering, precise production and life cycle partnership.

Renowned Sperre service
The opening of Ålesund Airport in 1957 started a new international era for Sperre, and led to the global service slogan “Any part to any place within 48 hours”. This promise was established in 1958, and we have kept it ever since. As part of the Sperre life cycle concept, you’ll find several service benefits:
• What you need – when you need it
• 24/7 service worldwide
• Substantial savings through maintenance routines
• Reduced risk of breakdown
• Spare parts in stock for at least 30 years after installation of the piston compressor

Milestones in the history of an air compressor product over more than 80 years

1938 The first hand operated compressor
1944 The K1 compressor
1947 The K3 compressor
1966 The water-cooled HV series
1976 The air-cooled PL series
2010 The new X-range compressor
2015 Containerized solutions
2019 Screw air compressor
2019 Compressed air system solutions
Right from the start, Sperre has supplied starting-air compressors to all kinds of vessels. Today, Sperre compressors are installed on every fifth ship on the world’s oceans. In collaboration with ship designers, shipyards, ship owners and partners, we plan, develop and deliver all the compressed air that any ship needs. A Sperre solution ensures unique operational reliability and service for the ship, from construction and delivery until the final voyage.

Sperre is located in Ålesund, centre of one of the leading maritime clusters in the world, which builds some of the most advanced offshore vessels in the world. We know all the requirements associated with equipment for offshore vessels, and we have developed specialized skills in deliveries to this demanding industry. Today, some 3 of 4 offshore service vessels rely on starting air from Sperre.

Through decades of daily use in highly demanding maritime environments, our compressors and solutions have proved their superior performance. These lifetime advantages are just as valuable for land-based installations and power plants as they are for ships. For installations exposed to extreme cold, heat, and the ravages of the elements, a robust and reliable Sperre solution is a natural choice. We deliver complete packages, tested and ready for installation. Today, you will find Sperre solutions in some of the most remote regions on Earth.

We are there when you need us, where you need us. Our service engineers are available 24/7. For more than 60 years, we have kept our service promise: “Any part to any place within 48 hours.” It does not matter whether your compressor is new or 30 years old.

Every 5th ship

Every 5th ship on the world’s oceans relies on starting air from Sperre
Sperre Compressors have a unique reputation, and Sperre is by far the most frequent choice for starting air compressors on the world’s oceans. Feedback from demanding customers confirms the unique standing of Sperre as the most reliable and cost-effective compressor brand.

The Sperre Life Cycle Concept

Innovations
Sperre is constantly developing compressor solutions as well as our support and service. Innovative thinking yields results. Working together with customers and suppliers, we are constantly making improvements and refinements to our solutions. The result is important benefits and large savings during the entire life cycle of the product, from engineering to decommissioning or recycling.

30 years of spare parts availability for piston compressors
With the right maintenance routines, a Sperre piston compressor is designed to last for the lifetime of the vessel or the plant. This is the basis for our unique reputation. As part of our Life Cycle Concept, we guarantee that we will stock parts and accessories for our piston compressors for at least 30 years from the installation of the system. For other products we will stock parts for the expected life time of the product.

Sperre 24/7 service
Fast response is often vital for the operation of the installation. Professional service and support are more important than ever. That’s why our experienced support teams are available around the clock, every day, and all enquiries are processed immediately.

Sperre’s global network
Sperre has offices in Ålesund, Rotterdam, Singapore, Shanghai and Busan. We are also represented by an extensive and professional network of agents in more than 20 important locations around the world. Our representative is there, wherever and whenever you need us.

The complete life cycle partner
This means that, in partnership with you as our customer, we solve your compressed-air needs and support you with essential professional expertise.

• Planning and engineering, customized solutions
• Dimensions, coordination and production
• Testing and delivery of complete compressor systems
• Installation, training, operations and monitoring
• Periodic maintenance, service and repairs
• Replacement, disassembly and recycling

Any part to any place within 48 hrs
With 24/7 service, fast response time, unique logistics and our global network, we have fulfilled our 48-hour spare-part guarantee for more than 60 years. This provides great peace of mind concerning reliable and continuous operation of the compressor system.
Marine and land based applications

1. STARTING AIR SYSTEM
2. EMERGENCY AIR
3. WORKING AIR
4. INSTRUMENT AND CONTROL AIR
5. SCR

Marine and land based applications

www.sperre.com
Sperre can deliver complete packages for all compressed-air solutions needed on board. With long expertise, strong engineering skills and unrivalled understanding of the marine market, Sperre is capable of designing solutions that are customized to each customer’s specific needs. This results in considerable cost savings during production, installation and day-to-day operations. At the customer’s request, we can take care of assembly, testing and training. We also offer operating agreements.

Sperre, the world’s No. 1 piston compressor
More than one out of five of the world’s ships rely on starting air from a Sperre compressor.
A competitive and complete product range

With 21 compressors, the Sperre starting air compressor range includes all the capacities needed by the marine market.

- Designed for easy mounting
- Plug-in installation
- Safe, clean and secure operation
- Cost-saving maintenance
- Documented long lifetime
- Low life cycle cost

Sperre starting air range

<table>
<thead>
<tr>
<th>Model</th>
<th>Air-cooled</th>
<th>Water-cooled</th>
<th>50 Hz 1500 RPM</th>
<th>60 Hz 1800 RPM</th>
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</table>

All capacities in m³/h. Table subject to change. Check our website www.sperre.com/range for updates.

Sperre's Technical Guide: www.sperre.com/compressors
Sperre Classic compressors have a unique reputation – they are by far the most frequently chosen compressors on the world’s oceans. For smaller compressors, the HL range is our ultimate recommendation.

Unanimous feedback from demanding customers confirms the unique standing of the HL. It’s the most reliable and cost-effective small compressor range and the first choice of 7 out of 10 offshore supply vessels.

- Reliable and cost effective
- Perfected in demanding working conditions over decades
- Built-in oil separator, substantial savings in installation
- Easy to operate, no need for special training
- Simple maintenance and repair
- Uniquely low life cycle cost

The world’s most renowned maritime compressor

<table>
<thead>
<tr>
<th>30 BAR</th>
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<td>93</td>
<td>120</td>
</tr>
</tbody>
</table>

All capacities in m³/h. Table subject to change. Check our website www.sperre.com/range for updates.
The Sperre X-range compressor offers a number of innovative and improved features. In short, the X-range brings the field of specialized compressors a great step forward to a new level of efficiency. That means considerable savings throughout the lifetime of your compressor system.

- One platform for water-cooled and air-cooled compressors sharpens our competitive edge
- Only 10% different parts from air- to water-cooled compressors
- Modularization and multifunctional components
- 50% less installation time (approx.)
- Safe and green
- Less weight: 25% for air cooled, 40% for water cooled
- Fewer wear parts, more reliable, less maintenance and service
- Lower average operational costs

Sperre X-range, performance through superior technology

Unmatched performance for its size

Air-cooled
Radiator coolers for the air-cooled compressors.

Freshwater-cooled
Fusion-bonded plate coolers for the water-cooled compressors.

One common platform
The best cooling efficiency in the market

No condensation problems
Sperre has taken several steps to achieve the best cooling efficiency in the market. The unique coolers, the highly effective radial fan and the X-cover for optimized airflow are all important to withstand 55 °C ambient.

• Same cooling principle for air- and water-cooled
• Radial fan increases air intake by about 20%
• Optimized airflow – the X-cover directs the airflow precisely and efficiently to the points where it is needed
• Constant cooling throughout the range
• Outlet air approx. 25°C above ambient
• Unique and highly effective coolers
• Easy replacement of coolers
• Longer intervals between services

Efficient new drain solutions
The highly effective cyclone separator takes out so much water from the compressed air that the remainder does not condense. Combined with the X-design that prevents cold surfaces in the crankcase, condensation problems are eliminated.

• Effective cyclone separator. Removes minimum 80% of water droplets at 30 bar
• Integrated non-return valve on the HP side
• Automatic solenoid drain for combined draining and unloading function
• One common drain point – easier installation
• Higher quality compressed air
The Sperre X-range offers many benefits for our customers. Superior technology, state-of-the-art manufacturing, approved reliability and reduced costs for operating, services and energy consumption.

**Installation benefits**
- Substantially reduced weight, considerably smaller size
- One lifting lug, easy to handle
- Robust steel cover – no damage from transport, handling or installation
- Complete unit, exactly as ordered
- Fully factory tested
- No alignment needed
- Easy plug-in, one connection for all sensors
- Installation time reduced by about 50%

**Operational benefits**
- One platform, standardized systems and principles throughout the range make it easy to learn
- Simple transfer of knowledge and experience – in line with the trend towards larger, standardized systems
- Control unit with clear status monitoring, operating and logging from one place
- Service countdown with early warnings
- Simpler maintenance with fewer wear parts

**Safe**
- Fully enclosed structure, protects both operator and compressor
- Unmatched protection against hot surfaces and rotating parts
- Compressed air isolated from water circuit
- Pressurized air coolers outside the water jacket

**Green and clean**
- Environment-friendly
- No oil mist to the environment
- Cleaner air to the receiver
- 10% less energy consumption
- Reduced emissions
- Less vibration, high isolation grade
- Noise well below IMO norm

No oil mist to the environment – new closed system.
1. Takes up oil mist from crank case
2. Condensed in oil separator
3. Most of the oil mist is condensed and led back into the oil sump
4. The remaining oil mist is led into the intake air
The Z-control is our new generation of compressor controller and provides improved functionality in a user friendly design. With a 7” touch screen operation is made easy and intuitive, and the new Eco-mode runs the compressor with less strain to save power and fuel.

Service is made easy – now for both Classic and X-range - with early service warnings and alarms. For all service routines Sperre provides maintenance kits with all necessary parts for the service.

- Eco-mode
- Standardized control system for both Classic and X-range
- Improved monitoring and safety functions for Classic range
- Service warning and log for all compressors
- 7” touch screen
- Modbus TCP communication
- Automatic and Semi-automatic mode
- Lead/follow for two compressors is standard
- Local and remote lead/follow functions included
- Automatic change over (load sharing)
- Language selection

SERVICE REMINDER
Service countdown with early warning and alarm for each service type; each type requires the use of the appropriate service kit.

- Indication of current and next service
- Indication of service type
- Total running hours at time of service
- Date of service
- Total motor starts at time of service

SERVICE LOG
- High/low air pressure in receiver
- High air pressure at LP/HP stage
- High temperature of delivery air
- Low oil level – compressor
- Overload - compressor motor
- Emergency stop activated
- Service alarms
- Sensor failures
- Power failure
Sperre delivers screw air compressors which comes in capacities from 41 m³/h up to 468 m³/h for our largest models. Sperre screw air compressors have few moving parts and are convenient to maintain. The compressors are designed with everything in one complete cabinet. This reduces risk of oil leakage, makes maintenance easy and the compressor environment friendly.

Sperre launched the new series of screw compressors to meet the demand of working and service air in marine and landbased industries, and in combination with our reciprocating starting air compressor range, to provide complete solutions for our supply into both marine land based applications.

- Easy installation
- Easy maintenance
- Few moving parts
- Long lifetime and low life cycle cost
- Safe, clean and secure operations
- CE approved

• Instrument air
• Control air
• Working air
• SCR
• Ships
• Power plants
• Industrial installations
• Workshops

The air flow (FAD) is tested as per the requirement in ISO1217 standard (GB/T3B53) 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.

Typical applications
For installations where large volume of low pressure compressed air is needed, screw air compressors are the natural choice. The screw air compressors are well suited for providing compressed air to a wide range of pneumatic equipment and tools onboard ships and at industrial installations.
Easy installation and operation
Handling and installation of Sperre screw air compressors is made easy and convenient. The installation can be done without any special requirements at site. Internal air circulation ensures efficient cooling and extends service life. Removable and fully closed casing is designed to keep people and unit safe and noise levels low.

Energy saving and efficient air end
The unique and sophisticated design of the air end secures high efficiency and durability, reduces leakage, improves the volumetric efficiency and ensures high output and lower power consumption.

Control system
Automatic and efficient operation is managed by the control system to ensure the compressor runs in an energy efficient way. When there is no need for compressed air for a period of time, the compressors will automatically run unloaded, and when the need resumes the compressors starts running loaded again. If there is no consumption of compressed air for a longer (user defined) period of time, the compressor will eventually shutdown. This enables stable pressure and energy saving operation. The controller also features functions like local control, linkage control and remote control.

VFD models - saves energy and cost
Variable Frequency Drive models are the ultimate choice - both in terms of saving operation cost and being more environmentally friendly. The Sperre VFD compressors changes the variable speed of the compressor’s main motor in accordance with the air flow demand. With this technology only the required air flow is delivered, resulting in optimal energy consumption and less cost compared to the fixed speed alternative.

A standard screw air compressor uses starting and stopping to meet the compressed air demand. This causes a lot of start/stop cycles, and the compressor also has to compress air to 0.1-0.15 Mpa higher than the actual pressure demand. With variable frequency drive (VFD) the compressor will adjust the speed to meet the exact air demand.

This leads to an energy saving effect of approximately 10% as illustrated above by the blue area between the curves. Another benefit of the VFD technology is less strain on the unit due to significantly fewer start/stop cycles pr. running hour.

Sperre screw air compressors comes with a unique layout that is easy to install. The compressors have belt drive technology for easy maintenance. Automatic and efficient running condition is ensured by the control system of the air compressor.

Belt drive
Belt drive technology is employed for our screw compressors and this enables the machine to change mode rapidly and it also pays the role of overload protection.

Easy maintenance
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.

The Sperre service concept - we make maintenance easy!
With the Sperre service concept maintenance is easy and cost effective. We provide maintenance kits with the necessary parts according to running hours.

- Simpler maintenance planning and logistics
- Service schedule with maintenance kits
- Necessary parts only

Sperre screw air compressors

Typical service intervals for Sperre screw air compressors

www.sperre.com
Air dryers, filters and air receivers

Air dryers and filter systems

Sperre can deliver complete packages for all compressed air solutions needed on the plant or onboard the vessel. With long expertise, strong engineering skills and unrivalled understanding of the market, Sperre is capable of designing solutions that are customized to each customer’s specific needs.

We can deliver filters and dryers to obtain all purity classes acc. to ISO 8573-1:2010 for both low- and high pressure systems.

Air receivers

Sperre supplies air receivers according to standard drawings, in sizes from 30 to 3000 litres in both horizontal and vertical configurations. The working pressure ranges from 7 to 30 bar, and the air receivers are approved according to CE and PED (Pressure Equipment Directive).

We also supply receivers manufactured to customer specifications. The company has supplied special high-pressure receivers to seismic ships and offshore installations, where the working pressure has been up to 300 bar.

Certification

All our welders are certified in compliance with NS-EN 287. The company produces pressure vessels approved by the national and international classification societies, and holds the necessary approvals.

Air receivers in accordance with DNV, LRS, BV, and RINA are type approved. Other design codes on request.

Surface Preparation

Standard paint system:

- Inside: Sandblasting acc. to SA 2.5 SIS 05 5900
  INTERPRIME CPA 099 (Red)
- Outside: Sandblasting acc. to SA 2.5 SIS 05 5900
  Coating with primer and Aloyd top coat

Our standard is BSP threaded valves, but flanged valves can be supplied on request.

Why is air quality important?

In a compressed air system there are several function and processes that consumes compressed air. The quality of your compressed air is very important for the good performance of your system.

- Proper filtration and drying aligned with system requirements and ambient conditions reduces impurities and humidity in the air system.
- Incorrect filtrations will impact corrosion, piping system, pneumatic performance, valves, regulators, etc.
- Proper filtration and drying have significant impact on your maintenance cost.

“It’s like the difference between breathing on a dusty construction site, or in the middle of a nice forest.”

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The standard supply includes

- Inlet valve
- Outlet valve
- Drain valve
- Safety valve
- Pressure gauge with root cock
- Lifting lugs
- Name plate
- Inspection opening(s)
- Supporting legs

Our standard is BSP threaded valves, but flanged valves can be supplied on request.
Sperre has an organization with highly skilled and experienced engineers. We develop solutions tailored to the customer’s specifications. Our technical experts are the best discussion partners, and put together optimal compressor solutions for your special project. Leave it all to us. With our modular solutions, we customize and optimize the size and capacity. We build and deliver the equipment as specified, complete with piping, tanks and electrical systems – tested, classified and ready for plug-in installation. The result is the lowest initial cost.

- Customized solutions with the right dimensions
- Efficient manufacturing, reduced production costs and installation costs
- Lower initial costs
- A complete, tested delivery with classification and documentation
- Easy installation, no adjustment/adaptation, reduction of about 50% in installation time
- No loose parts; no risk of incorrect installation
- Plug & play: one cable between the compressor and the control panel
- Reduced vibration (25-30 RMS) and improved isolation (>90%)

Sperre containerized solutions are developed as result of a need in the market for turn-key solutions. We deliver containers tailor-made to your capacity needs - a complete package tested and ready to use. The Sperre turn-key containers are well suited for operation at land based installations.

**Standard container configuration**

- 20 or 40 feet container
- Compressors
- Receivers
- Dryers
- Filtering system
- Reduction stations
- Complete piping and wiring
- Local starters

- Service door
- Lighting fixtures
- Ventilation system
- Fire extinguisher
- Single point inlet power supply
- Compliance with national standards
- Painting and marking acc. to customer requirement
- As built factory tested acc. to Sperre standard

**Fully equipped turn-key containers**

The Sperre Plug & Play solution: Information and warnings from up to seven checkpoints inside the X-cover collected in one plug-in cable.
Sperre is renowned for excellent service and support – in a class of its own

“No customer should have to wait for spare parts from Sperre”.

This statement from our founder Ole Sperre forms the basis of our unique after sales service – one of the most important reasons to choose a Sperre compressor solution. We take care of your compressor system through the entire life cycle, and guarantee availability of original spare parts for at least 30 years after installation. We understand the need for fast and reliable service throughout the lifetime of the installation. Downtime may have fatal consequences, so our customers have 24/7 access to our experienced support and service engineers.

They can provide assistance in technical issues and guide operators through continuous contact as well as solving problems by telephone or by email. Our technical support team also offers service training for operators and crews, either on site or on a general basis.

Save costs on regular maintenance procedures

The safest and most economical way to operate a Sperre system is to follow Sperre’s maintenance procedures and use original spare parts. Many of our customers have introduced systems for planned maintenance. Sperre now develops framework agreements for operation, in which we can take responsibility for instruction and training of personnel, monitoring, service and maintenance as well as replacement of parts and accessories.

Easy for customers

Precise digital information has been developed for each type of compressor. A precise description of procedures and service combined with complete service kits has made maintenance work easy and safe for our customers.

Reduce breakdown risk with Sperre spare part kits

We all know that preventive maintenance is cheaper than breakdown repairs. More than one third of our customers prefer kits, and give us unanimously positive feedback on our kits and installation instructions. You have all the necessary parts at hand when you need them, well organized with clear installation instructions enclosed.

Why spare part kits?

• Complete maintenance for best compressor performance
• All the parts you need, when you need them
• Complete installation instructions
• Simple maintenance planning and logistics
• Easy maintenance, less time, lower cost
• Necessary parts only
• Minimized risk of breakdown
• Peace of mind at sea

Any Part to any place within 48 hours

All spare parts with installation instructions at hand when you need them

“Our partner in starting air compressors is Sperre”

Bjørn Skogvoll, Superintendent at Grieg Star, Bergen
Sperre spare part logistics

Our service-minded after sales teams are ready to provide necessary help. Sperre always has the correct spare part in stock – directly from our factory in Norway, or from our offices abroad.

Any part to any place within 48 hours

In 1958, Sperre established its global service slogan: “Any part to any place within 48 hours”. This is a promise we have kept ever since. Sperre Global service means that our customers can contact our service people 24/7 and meet “our man” in important locations around the world. We have parts and spare compressors in stock in Norway, the Netherlands, Singapore, China and Korea.

Retrofit Compressors – complete from the shelf

We can supply complete compressor units off the shelf, directly from our factory in Norway or from our subsidiaries in Rotterdam and Singapore.
The Sperre service concept

We make maintenance easy!
Save costs on regular maintenance procedures. The safest and most economical way to run a Sperre compressor is to follow the Sperre maintenance routines and use genuine spare parts.

The spare part and overhaul kits from Sperre make it even simpler to carry out planned and cost effective maintenance on the compressors. We provide service schedule with corresponding overhaul kits according to running hours.

Sperre X-range
Recommended service intervals for Sperre X-range compressors. Same service philosophy – longer service intervals.

Sperre Classic
Recommended service intervals for Sperre Classic compressors

Quality certifications
All Sperre products undergo extensive long-term testing under extreme conditions. Long term testing establishes the optimal service interval for safe and cost-effective operation. When ready for purchase, every system and starters are fully function-tested with a rigorous automatic test system.
Every Sperre product is approved by all the major classification societies – ABS, BV, DNV GL, KR, LRS, RINA, CCS, RMRS and others.
Sperre’s quality system is structured in accordance with NS-ISO 9001, NS-ISO14001 and OHSAS 18001, and is certified in compliance with these standards.
The quality system is further approved by a majority of classification members in IACS as a basis for manufacturing survey arrangements.
Sperre supplies state-of-the-art compressors at competitive prices. A highly effective value chain with a number of positive synergy effects enables us to produce compressors in smarter and more cost-effective ways. The focal point is our high technology and automated production process.

**Productivity as a passion**
Best-practice production results in maximum output with minimum staff – extraordinary performance per square metre. We are always seeking smarter solutions and a higher degree of automation – the only route to competitive operation in a high-cost country.

**Logistics**
All activities are linked to the highly advanced warehousing system. Components come to each work station precisely when they are needed, and the whole factory is virtually forklift free.

**Flexibility**
Extremely flexible logistics enable efficient customization. We keep a four-month inventory of spare parts and have 200 standard compressors ready to deliver overnight at any time.
Every 5th ship on the world's oceans has a compressor from Sperre
Sperre has a unique position as a reliable supplier of starting air to all types of ships. We deliver complete packages for all compressed air solutions needed on board.

- Complete delivery – easier and faster installation
- Lower initial costs
- More reliable and easy monitoring, service and repairs
- Lower operating costs result in savings that add up to millions during the life cycle of the installation

References: Shipping

Ringkø
Super Speed 7
BW Suez Bastian
Bow Flower
3 out of 4 offshore service vessels rely on Sperre starting air compressors

A Sperre compressor is designed for marine challenges, and we have long experience with requirements and specifications that must be fulfilled in offshore vessels.

- Documented operational reliability
- Low energy consumption, cost-effective operation
- Reliable, easy monitoring, service and repairs
- Reduces costs for the lifetime of the vessel

References: Offshore

References: Industry

Sperre – a reliable supplier to demanding power stations and industrial plants

Our vision is to be a life cycle partner for power stations and industrial plants, with the most stringent standards of quality and operational reliability. Feedback from the most demanding maritime environments is solid evidence of Sperre quality. In icy temperatures or blazing desert sun, our compressors have been tested under the most extreme conditions. Today, we have delivered thousands of compressor systems to industry and power stations in some of the world’s most remote and inhospitable regions, exposed to the harshest climatic conditions.

Typical plants well suited for a Sperre solution:

- Power stations
- Hospitals
- Defence installations
- Oil rigs
- Airports

Sperre – when there’s no place for compressor breakdown

In some of the most remote areas of our planet, Sperre compressors provide starting air to industrial and power generation plants that are vital to their communities. Climatic extremes and difficult access conditions set challenging demands: the compressors must be absolutely reliable, robust and trouble-free. Sperre is the logical choice for these installations.

We can offer staff training programmes. Standardized compressor units and standardized documentation save time and money for both the supplier and Sperre. We can offer the efficient logistics and totally dependable support that put us in the forefront in these demanding sectors.
Your Life Cycle Partner
– proved by more than 80 years of experience

Shipping • Offshore • Industry • After Sales

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