





NEUMAN & ESSER SEISMIC AIR POWER SYSTEMS





SAPS PES

Since 2006 NEUMAN & ESSER offers NEA SAPS units for the seismic industry. NEA continued the improvement process until then and provides a robust, stateof-the-art solution. NEA SAPS is a well proven technology supporting customers in meeting current as well as future challenges.

NEA offers three different types of Seismic Air Power Systems:

Standard SAPS

The NEA SAPS range incorporates eight construction sizes in the electrical version and six construction sizes with diesel drive. The smallest system supplies 20 m³/min (700 cfm) and the largest capacity is 78 m³/min (2,750 cfm).

The higher volume enables shorter intervals when shooting with the air guns, making it possible for the systems to provide more precise data and above all to save time. The pressures for the different recips for seismic applications are identical at a maximum of 207 bar (3,000 psi).





Containerized SAPS

The container version of NEA SAPS is weatherproof protected and appropriate for installation both above and below the deck. The particularly compact construction is applicable as stationary or portable version, i.e. on a truck.



The oil-free version **BLUESAPS**°, is a further development. This SAPS version saves a considerable amount of oil and, perhaps even more importantly, a great quantity of oil-contaminated condensate which would be costly to dispose of. NEA **BLUESAPS**° systems supply pure air with a 2-stage oil-free screw compressor and a 3-stage oil-free recip.





Standards

The NEA SAPS units are designed, manufactured, packaged and tested in consideration of standards such as OHSAS, DIN, VDE, IEC, ISO and DNV GL (other standards available on request).

After a successful test run, inspection and document control the compressor obtains a product certificate which confirms the DNV GL accordance - the Rules for Classification of Ships.



Power Supply

In order to supply the compressed air following, the requirements of capacity and time, it is necessary to adjust the energy accordingly. The SAPS control system meets this by stepless speed regulation between 50 - 100%. The adjustment of energy supply to the air guns also leads to a remarkable reduction of general energy consumption of the ship.



Sealing Technology

Piston rings and packings are designed in NEA's own research and production facilities focusing on long life operation with optimum efficiency. The comprehensive range of sealing elements provide customers with application orientated ring and packing designs made from best available, highly wear-resistant materials.







NEA GROUP offers a dedicated crew of service supervisors from NEAC Compressor Service especially for NEA SAPS units. The NEAC team is perfectly prepared for offshore servicing; for the entire NEA SAPS life cycle.

Besides long time experience with the special requirements, they attended offshore emergency trainings and courses like the Helicopter Underwater Escape Training (HUET) in accordance to NOGEPA, OLF and OPITO. Customers are provided with competent service for their systems directly upon request and spare parts are supplied conforming to a service agreement within 24 hours.

Customers receive individual training as desired before or after commissioning; either on the vessel or at the packager. A further option is also possible: at the NEAC Training Center in Übach-Palenberg, Germany. The participants here gain deep theoretical and practical knowledge by implementing what they have learnt directly on the bare compressor.





Holdings

NEUMAN & ESSER Verwaltungs- und Beteiligungsgesellschaft mbH Übach-Palenberg, Germany NEUMAN & ESSER Investments, Inc. Wilmington, Delaware, USA

NEUMAN & ESSER Investments Asia Ltd. Hong Kong, China

Sales and Application Centers NEUMAN & ESSER América do Sul Ltda Belo Horizonte, Brazil

NEUMAN & ESSER (Beijing) Co., Ltd. Beijing, China

NEUMAN & ESSER Compressor Application Centre Pvt. Ltd. Pune, India

NEUMAN & ESSER Deutschland GmbH & Co. KG

Übach-Palenberg, Germany

NEUMAN & ESSER Eng. (India) Pvt. Ltd. Pune, India

NEUMAN & ESSER Egypt Ltd. Cairo, Egypt

NEUMAN & ESSER Gulf FZE Dubai, UAE

NEUMAN & ESSER Italia S.r.l. Milan, Italy

NEUMAN & ESSER GmbH Mahl- und Sichtsysteme Übach-Palenberg, Germany

NEUMAN & ESSER Rus Ltd. Moscow, Russia

NEUMAN & ESSER Sistemas de Moagem e Classificação Ltda Belo Horizonte, Brazil

NEUMAN & ESSER South East Asia Ltd. Rayong, Thailand

NEUMAN & ESSER USA, Inc. Katy, Texas, USA

THE THE PARTY OF

NEUMAN & ESSER Grinding and Classifying USA, In Katy, Texas, USA

Production Sites

NEUMAN & ESSER GmbH & Co. KG Maschinenfabr Übach-Palenberg, Germany

NEUMAN & ESSER Maschinenfabrik Wurzen GmbH Wurzen, Germany

STASSKOL GmbH Stassfurt, Germany

Service Centers

NEAC Compressor Service GmbH & Co. KG Übach-Palenberg, Germany

NEAC Compressor Service S.r.l. Milan, Italy

NEAC Compressor Service USA, Inc. Katy, Texas, USA

NEAC Compressor Service Ltda Belo Horizonte, Brazil

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