







development of a solution concept

selection of hardware

determination of type of explosion protection

cost-effective production

form follows function



Users

- > oil and gas industry
- > petrochemistry
- > chemical industry
- > pharmaceutical industry
- > food, beverages and tobacco industry
- > shipbuilding and offshore industry
- > wood processing

Range of services

- > advisory service
- > electrical planning
- > mechanical construction
- > ensuring of explosion protection
- > documentation
- > certification
- > software engineering
- > programming
- > production
- > quality assurance
- > works acceptance
- > commissioning support
- > after sales service

Too many compromises are made to the function of a system due to the mechanical design. Causing not only expensive but also inefficient designs. Therefore, a critical electrical control system needs to be engineered where it will ideally function, the design will then follow the function. This requires early involvement. Let us together invent the solution.



















COST



















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"We have a common goal — maximum safety and the best possible system solutions."

Machines and installations for hazardous areas are naturally subject to the strictest safety conditions. R. STAHL as one of the world's leading manufacturers of explosion-protected components offers long-standing experience and extensive know-how and helps you to fulfil the standards that are often very specific. Our knowledge and our support exceed our own product portfolio and also contain the organization of many services from other fields. Because your safety is our profession.

- more than 3,000 certificates for explosion protection
- > more than 70 active patents
- > member in numerous standardization committees, technical committees and working committees



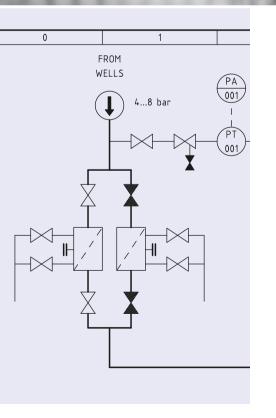












Skid conduit installation



Smart monitor for visualization wire-line





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"Many customers rely on our know-howoften right from the first steps of planning and development."

R. STAHL is your competent partner, from the idea to the implementation of a project. We offer extensive advisory service and support to our customers, throughout the entire period of a project. Together with you, our engineers develop in a constructive process your individual solution. So costs may be saved at an early stage and errors may be avoided. Departments sales, project management and production work closely together at R. STAHL. So optimal implementation is ensured, from the planning stages and production up to inspection.

- > short communication channels
- > optimal planning of the project
- > cost reduction
- > all services from a single source

Control and distribution, enclosures in Ex e and Ex d, Remote I/O System integrated

Hydropack unit inclusive control panel for marine loading arm

Marine loading arm operator and control panel in Ex de execution (CUBEx 8264) UPS with protection methods Ex de and R. STAHL Ex-UPS-Guard inside













oil & gas



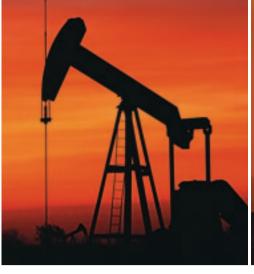
| M-006-1 | VENTILATION | PUMP UNIT | FAM 1 | 3N-50Hz 4.00/230V | PUMP UNIT | FAM 2 | 3N-50Hz 4.00/230V | FAM 2 | 3N-50Hz 4.00/230V | FAM 2 | 5N-50Hz 4.00/230V | FAM 2 | FAM

Shelter for Process Gas-H2 Analyzer



Ex de operator control panel (CUBEx series 8264) with PLC









facility and logistics off shore drilling and exploration on shore drilling and exploration off shore recovery on shore recovery transportation refinery facility and logistics off shore drilling and exploration on shore drilling and exploration off shore recovery on shore recovery transportation refinery facility and logistics off shore drilling and exploration on shore drilling and exploration on shore recovery on shore recovery transportation refinery facility and logistics off shore drilling and exploration on shore drilling and exploration off shore recovery on shore recovery transportation

"We want satisfied and successful customers."

The oil and gas industry changes all the time and constantly has to face new challenges in regard to performance rate and productivity. Knowledge becomes more specific, systems have to become more and more resistant. We offer our extensive specialist knowledge and experience in finding solutions for difficult problems. Be it burning heat, freezing cold, salty sea water or rough sandstorms — R. STAHL products are used all over the world under extreme environmental conditions. We understand your process and thus your requirements.

- > extended temperature range
 - -20°C ... +40°C
 - -50°C ... +55°C
- > saltwater-resistant
- > 100% quality controlled in our own test laboratory

Control panel with STAHL series 8010/8082 signal lights and pushbuttons

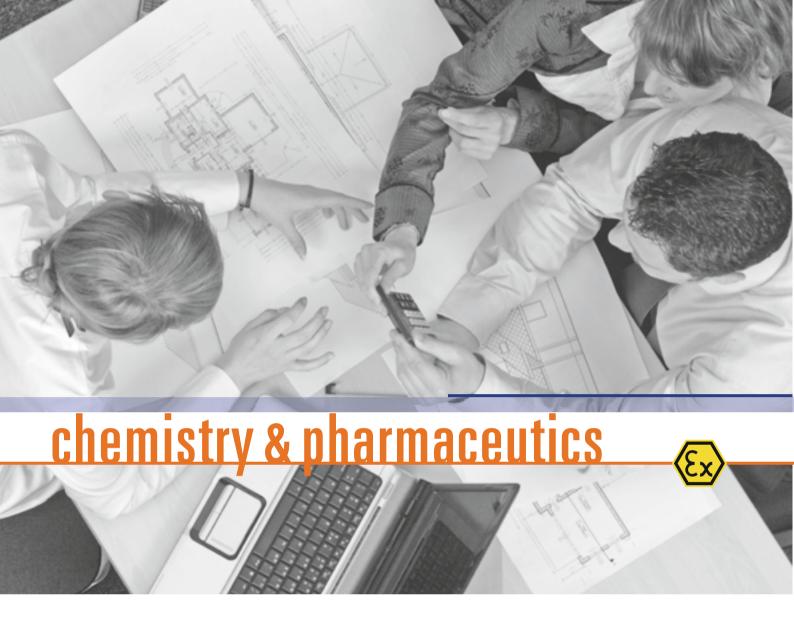


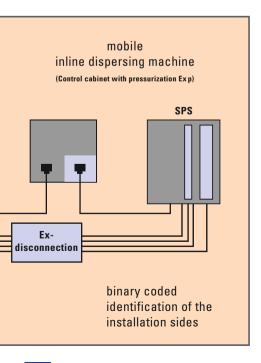
Containerized control building for Root Compressor including power transformers

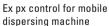


Containerized Low Voltage MCC, control panel and electrical heater thyristor panels











Products and solutions for cleanrooms and isolators







asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process safety, process safety, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process stability, process safety, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process safety, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process safety, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, process stability, hot swap, asset cost, total cost of ownership, maintenance, energy efficiency, process quality, proce

"We want your processes to work as quickly and as safely as possible."

Processes in the chemical industry present different demands in regard to quality, flexibility, economic efficiency and safety. Combustible gases, vapours or dusts may form a potentially explosive atmosphere. In the pharmaceutical industry, strict regulations for keeping the production processes clean have to be observed. R. STAHL offers well-established process know-how, innovative technologies and scalable solutions for your special requirements. Clean room requirements or the handling of combustible substances — together with you our employees will develop a customized solution.

- > products and solutions suitable for clean room
- different types of protection and combinations
- > special system solutions for the complete value chain
- > process automation
- > exclusively adjusted product features

HMI solutions for modern operating and monitoring



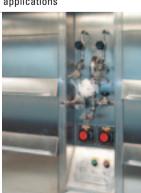
Automation solution with integrated Remote I/O system



Ex control panels for agitators, mixers and centrifuges



Socket outlet assemblies and flush mounted fittings for pharmaceutical applications











Competence Centre in Waldenburg, D



Assembly of audible and visual signalling devices (brand Clifford + Snell) in Chennai, IN



Assembly of switch cabinets in Waldenburg, D





"We live open communication."

R. STAHL is at home all over the world and we are always close to you. Competent teams fulfil our customer's wishes with great commitment and harmonize them with the country-specific and environmental conditions. Whether hot or cold, whether acid or abrasive, R. STAHL's system solutions are always safe and explosion-protected. They are utilized all over the world in the pharmaceutical industry, in rough offshore operation, in extremely low or extremely high temperatures. All standard components fulfil degree of protection IP 66, suitable for all typical applications. Our concepts have already been tested and successfully applied in many projects all around the world.

- > more than 70 subsidiaries and partners all over the world
- > modern local logistics centres all over the world
- > extensive after-sales-service
- > international training courses

Assembly of distribution panels (series 8146) in Hengelo, NL

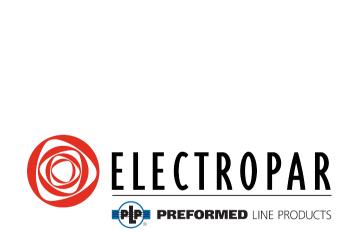


Overview of container assembly hall in Hengelo, NL



Assembly hall for large-scale production in Waldenburg, D









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