

competence at a glance









more than protection peace of mind

Applications

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- > petroleum and natural gas deliveries
- petroleum and natural gas storage and transporters
- > petrochemical industry
- > chemical industry
- > pharmaceutical industry
- > food product, beverage and tobacco industries
- > shipbuilding and offshore industries
- > wood processing industry
- > water purification
- > automotive
- > original equipment manufacture

In many industries there are combustible substances such as gases and vapors that are produced during production. Sometimes these gases and vapors combine with oxygen in the atmosphere to form what is known as "explosive environment". If this atmosphere is somehow ignited, the end result will be an explosion. When safety is of the utmost importance, there is no compromise — Your safety is our business. R. STAHL's decades of experience guarantees that your scope of work will be carried out safely in hazardous and harsh locations. We offer customized, technically advanced and comprehensive solutions for hazardous locations. If you are looking to protect the people and property in your organization and you are looking for more than protection but also peace of mind, R. STAHL is your partner.



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expertise

where safety knows no compromise

- > all protection methods available
- over 3000 certificates for explosion protection issued
- > more than 70 active patents
- > technical training
- member of many international committees, technical commissions and research groups (Profibus, Fieldbus Foundation, HART etc.)
- basics literature (explosion protection, dust explosions, duties and responsibilities)
- > in-house testing laboratory

For over 80 years R. STAHL has been protecting lives, people, and equipment with their products. Pioneering new developments in electrical control devices, instrumentation, and lighting has propelled R. STAHL to the top of the explosion protection and hazardous location industry. The experts at R. STAHL actively work with numerous international certification agencies to ensure that the most technologically advanced safety techniques are used in the manufacturing of our products. R. STAHL has become an international leader among explosion protected components and a logical choice for automation systems, control and distribution products, lighting, signals, and alarm systems around the world. We are the only company in the world that has mastered all types of ignition protection for electrical explosion safety, and thus are able to design and implement the optimal form of explosion protection for any possible application. Our expertise also covers related areas of safety engineering such as functional safety, SIL and FDA. International certifications, approvals, and patents underline our expertise and make it possible for R. STAHL products to be used anywhere in the world. One thing is certain: on the basis of experience and international synergies, we continue to deliver technological innovations tailored to your individual needs.



development

laboratory/certification



- > 6 % of our annual revenue is reinvested in the innovation process
- > 40 % of our revenue has been generated with products launched into the market in the past 5 years
- > We actively participate in international committees
- > We hold over 70 active patents
- > We use state of the art CAD systems and provide rapid prototyping

- > all key tests are performed on site in our own state of the art testing facilities
- > We are recognized by leading international testing agencies
- > We hold over 3,000 international certificates for explosion protection, shipping vessel approvals and functional safety
- > We offer factory accepted testing for domestic and international projects

project planning

production



- > extensive cooperation with customers to develop the optimal solution
- > educated engineers with international experience design solutions based on your individual needs

- Manufacturing plants located in: Waldenburg and Weimar (Germany), Cologne (Germany), Hengelo (Netherlands) Stavanger (Norway), Shanghai (China), Chennai (India) and Houston (USA)
- > flexible production and organized manufacturing provides effective communication between all departments
- > in-house occupational training center with educated trainers
- > in-house tool-and-die manufacturing facilities

quality management



on-site acceptance testing



- > ISO 9000 certified in 1993 and ISO 9001 in 2004
- > quality management process coveres the whole supply chain
- > quality management system is approved by PTB
- > calibration laboratory monitors over 2,000 items of electrical and mechanical test equipment
- > production process is covered by quality assurance

- > state of the art testing and inspection equipment
- > intensive technical support
- > personnel are continuously trained on the latest technology
- > on-site consultants are in direct contact with development product managers

after-sales service

logistics



- > extended warranty on products and services
- > field service engineers available
- > competent information given by telephone and email

- > efficient and economical workflow
- > modern, fully automatic high-bay warehouse
- > production organized on the kanban principle
- > 24-hour delivery service for pick-and-pull items





STAHI

Automation Automation

Production plants

- > Waldenburg
- > Weimar
- > Cologne
- > Hengelo
- > Stavanger
- > Houston
- > Chennai
- > Shanghai

ATEX

ISO 9001:2000 R. STAHL's corporate headquarters is located in Waldenburg Germany, between Stuttgart and Nuremberg. Here our engineers work together in teams to develop tailor-made, reliable, smart and cost-effective solutions for complex systems worldwide. Project management and production departments work side by side in state of the art facilities to foster communication and cooperation between all departments throughout the entire production process. Flat hierarchies, flexibility, and open dialog describe our culture. Our large portfolio of components and systems, one of the most comprehensive in the world, is the basis for our explosion protection system solutions, all of which are carefully designed to work seamlessly with each other. This guarantees our customers the reliability they require and the assurance that a project will be successful. Our expert representatives will update you on your project status at any time. Our other manufacturing facilities located in Weimar and Cologne (Germany), Stavanger (Norway), Hengelo (Netherlands), Houston (USA), Chennai (India) and Shanghai (China) adhere to the same high standards.

Alarm and Signalling















<u>automation</u>

Services

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- consulting and planning in the field of safety engineering
- > systems planning and engineering
- > factory and on-site acceptance
- > training programs
- > after-sales support
- project planning, testing and startup, troubleshooting and error-correction for field bus applications
- > OEM products and OEM systems

R. STAHL offers comprehensive solutions for interfacing with both automation and field devices. Our explosion protected product lines include the INTRINSPAK safety barriers, the ISpac galvanic isolators, the remote I/O system, IS1, and the IS field couplers for FF H1 and Profibus PA. With over 80 years of experience, R. STAHL is uniquely qualified to offer expert consulting services. Complementing these products and services is a comprehensive lineup of additional offerings such as training programs, on-site startup, and after-sales service. When you automate with R. STAHL, you get much more than just components.

- > INTRINSPAK safety barriers 5
- > galvanic isolators ISpac 6
- > remote I/O system IS1 3 4 7
- > Foundation Fieldbus technology 1 2
- > complete solutions 2
- > system solutions for HART, Profibus DP, Profibus PA, Fieldbus Foundation H1, FDT/DTM & EDD





<u>switching/distribution</u>

Services

- > startup
- > site service
- > electrical system planning
- > 0EM service
- approval of customer specific solutions
- application development in collaboration with the customer

R. STAHL customizes and designs controls and distribution systems. Our wide variety of modular enclosures can be manufactured in a variety of materials. If you are looking for safe solutions that can be used in harsh and hazardous locations R. STAHL is your logical solution. All modular systems have the specific international approvals required making them suitable for use anywhere in the world, including offshore applications. All controls and distribution systems designed and produced by R. STAHL are delivered with their certificates.

- > increased safety enclosures 3 6
- > lighting/heating circuit distribution
- > standard motor controls
- > safety switches
- > load and motor switches

- > power switches for motor protection 6
- > control panels 1 4
- > excess pressure encapsulation 5
- > components for control and distribution systems 2







<u>installation</u>

Services

- short delivery times for standard components
- > customer-oriented, manufacturing
- > customer-specific labeling
- > applications for all installation technologies recognized throughout the world

R. STAHL offers one of the largest explosion protected and hazardous location product lines around the world. This product line can be used for the conduction, connection and distribution of electricity. We install certified installation materials throughout the world. We plan and produce terminal boxes and terminal box combinations under IEC/NEC ans CEC codes and standards according to our customer's specifications and requirements .

- > installation switches 5
- > junction boxes 4
- > terminal boxes 2
- > plug devices 3
- > plug connectors 1
- > couplers, coupler sockets
- > socket distributors

- > maintenance socket isolators
- > cable glands 6
- > cable guide bushes
- > stud and single-conductor glands
- > stopper plugs
- > adapters, reducers, expanders
- > materials for conduit installations





operating/monitoring

Services

- engineering and startup of visualization solutions
- > training programs
- > after-sales support
- > OEM products and OEM systems

R. STAHL supplies completely integrated operating and monitoring systems for harsh and hazardous locations. Our industry leading HMI technology is easy to use and can be placed in numerous industry applications. All operation and visualization equipment can be connected to any standard automation office or ERP system.

- > Open HMI: panel PC systems with standard hardware interfaces 3 4 5
- > Operator Interfaces: easy to plan terminal applications can be implemented with a simple Windows based programming software SPS Plus WIN
- > SMART camera system: closed system consisting of cameras, video server and display with real-time visualization
- > WLAN solutions for potentially explosive areas:
 access points and clients for wireless networks

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<u>lighting</u>

Services

- > lighting system planning
- planning of emergency lighting projects

Need light? R. STAHL illuminates. In our extensive lighting product lineup, you will find explosion protected lamps for nearly any application, including floodlights, tank inspection lights, and lighting for emergency escape routes. In addition to these standard solutions, R. STAHL can also provide complete individualized lighting solutions for potentially explosive, harsh and hazardous locations.

- > light fixtures for fluorescent tubes 1
- > pendant lamps 2
- > floodlights 6
- > portable lamps 4 5
- > compact and signal lamps
- > emergency lighting system 3
- > illumination planning software (free download)



alarm/signalling

Services

> project planning

Employees are a company's greatest asset. When it comes to protecting them, as well as other valuable assets, R. STAHL will not compromise. Our lineup of explosion protected and hazardous location signal and alarm equipment includes robust, reliable standard devices as well as individually designed equipment combinations. Each one designed to provide your employee protection and a peace of mind.

- > signalling and alarm equipment 1
- > signalling equipment systems
- > positioning switches
- > alarms and fire alarms
- > rack-mount modules for control panels 4
- > signalling and monitoring equipment 6
- > television cameras
- > traffic control signals 2
- > flash lamps 5

- > horns 3
- > measuring and monitoring equipment
- > rotating mirror lamps 6
- > 360° marker lamps
- > LED signal lamps
- > signal beacons
- > ground-fault monitoring devices 7
- > temperature controllers and limiters







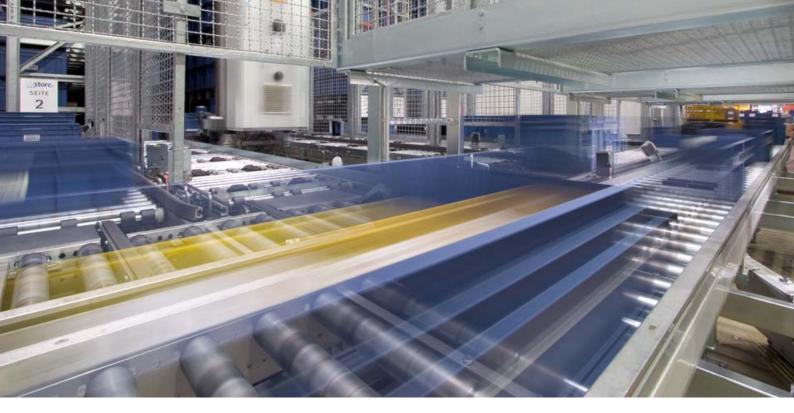


system solutions

- > consulting
- > planning
- > project management
- > engineering
- > preparation of software applications
- > manufacturing, installation and startup
- > explosion protection acceptance test
- > certifications
- > documentation
- > support

R. STAHL understands that each indvidual customer has different needs. To that end, R. STAHL works to ensure that we create the optimal customized system solutions that will ensure operations in your company proceed smoothly. Our committed employees will dialog with you to unterstand your specific needs. System solutions from R. STAHL always consist of customer specific products and services. These services constist of, but are not limited to: consulting, project design, engineering and customer training. The portfolio of our own systems solutions extends from complex machine controls, to control panels from process automation, to customized product installations.

- > access control systems for tank farm automation with operator terminals, camera systems and card readers
- HART management systems with remote I/O equipment for Div 1 and FDT/DTM technology via Profibus DP
- > clean-room applications with specialized enclosures
- > loading arm control system
- Integrated Fieldbus (FF-H1) and remote I/O (Profibus DP) stations in hybrid installations
- > sub-sea containers from STAHL-SYBERG





SETVICE we have you covered

Protecting lives and equipment is R. STAHL's highest priority. When you partner with R. STAHL in this endeavor you can be assured that our customized, technically andvanced, comprehensive products and services receive the highest quality of service.

- > development of individual solutions
- > 0EM service
- > technical service
- > after-sales service
- > expert information available via hotlines
- > global distribution network
- > relevant information via www.rstahl.org
- > 0EM solutions

- > permanent order status updates
- > flexibility
- > quality management
- > fast, reliable shipping
- > 24-hour turnaround on pick-and-pull items
- > international customer support
- > international shipping
- > training







training

good to know

- > training programs
- > in-house training center
- > training classes conducted at the customer's facility

Competent and trained employees are the most important link in a safe production chain. Remaining at the top of an industry requires committed employees who work diligently with new technologies and implement new safety regulations. At R. STAHL, we are aware of this and make our expert knowledge available to you by conducting training classes. Individuals may choose to take avantage of a basic or advanced training class. Theory and practice are conveyed in equal measure by our specialists. Individuals may choose to have training classes at their own location or at our facility. R. STAHL training classes provide participants with valuable knowledge pertaining to engineering, scientific principals and implementation of the ATEX, NEC and CEC guidelines.

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