



11/17

CHEMIE TECHNIK in November:

- Production engineering, servicing
- Automation – SPS IPC Drives
- Chemical parks
- Fittings, seals
- Power, gas and compressed air supply
- Separation technology, filters
- Bulk material technology

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CHEMIE TECHNIK

PRODUCTION ENGINEERING, SERVICING

Appearances are deceiving: Rapid test for corrosion risk

On the surface on rustproof steels, water and oxygen cause the formation of a chromium oxide layer that acts as a passive layer to protect the material from corrosion. If this layer is incomplete or damaged, the situation becomes critical. For example, if corrosion develops in pipes or containers in chemical plants, losses are bound to result. TÜV Süd Chemie Service shows a cost-efficient method, which was developed by the Bundesanstalt für Materialforschung und -prüfung (BAM) and which even non-professionals can use to test the passive layer.

Forecasting tool for predictive maintenance

Predictive maintenance of chemical plants still offers major savings potential. In addition to condition monitoring, a petrochemical plant also uses a forecasting tool that compresses the data to the extent that it is possible to make quite accurate breakdown forecasts.

AUTOMATION – SPS IPC DRIVES

Chemistry 4.0 study: Opportunities to digitalize chemistry

The German chemical industry is expecting new stimuli from digitalization and intensified recycling management. In a study, Deloitte Consulting and VCI together analyzed the potential that these elements have for the sector's development and the challenges that they pose for the companies.

Digitalization in small and medium-sized chemical firms

How far have small and medium-sized companies advanced in terms of digitalization? The "Digitaler Reifegrad im Mittelstand 2017" study that TÜV Rheinland Consulting compiled together with Lunendonk & Hossenfelder provides interesting information on this topic. According to the study, small and medium-sized companies are currently repositioning themselves and are very aware of the ongoing transformation. The question is, how will this affect them?



Bild: Warex



Bild: Kaeser



Bild: Coperion



Remote IoT solution

The valve terminal offers users adjustable monitoring and diagnostic functions that improve the system availability and process reliability and allow preventive maintenance. It is also significantly smaller than its predecessors and consequently fits into compact switch cabinets that can be positioned close to the process valves.

SPS IPC Drives: the news and highlights

SPS IPC Drives is again the place to see numerous new solutions for automation and metrology in process facilities. We report on the most important innovations.

CHEMICAL PARKS

CT trend report: technical services in industrial and chemical parks

The range of technical services in chemical parks is becoming increasingly important as a location factor because more and more operating companies are outsourcing these services. Our trend report shows the current developments on offer.

A close look at chemical parks: Conclude legally watertight contracts for work and services

New regulations apply to contracts for work and services starting in 2017. Particularly the concept of the construction contract affects plant construction contracts and service contracts for the provision of upkeep and maintenance services. This article explains what has to be kept in mind.

FITTINGS, SEALS

Materials for seals and more

The company has developed a material that is used for seals, among other purposes, because its properties make it possible to manufacture complete components from it as well. The advantages are improved leak tightness and lower weight.

POWER, GAS AND COMPRESSED AIR SUPPLY

Small scale, big challenge

Liquefied Natural Gas (LNG) is natural gas that has been cooled to -162°C (-265°F). In this form, line-independent transport in special tanks is possible by ship, train or truck. The global LNG demand is growing, and LNG use is also on the rise in Europe. Meanwhile, many terminal operators are increasingly focusing on the topic of small-scale LNG, which is the shipment of LNG in small ships, tank wagons, and trucks for grid-independent supply to the industrial and transport sectors.

Rotary screw fans for wastewater treatment

Back when Leipa Georg Leinfelder GmbH was still part of the Finnish UPM Group, its Schwedt North plant was ready to renovate the compressed air supply for the wastewater treatment plant's aeration tanks, but the paper producer wanted to continue to work with turbo compressors. During the planning, however, Atlas Copco's oil-free compressing rotary screw fans won them over due to the greater flexibility and better price-performance ratio. The fans with the highly efficient turbo compressor technology also keep pace when it comes to energy consumption.

SEPARATION TECHNOLOGY, FILTERS

A question of geometry

Centrifuges come in many shapes and colors, although the former is primarily critical for operators. The article compares horizontal and vertical centrifuges and explains the resulting advantages and disadvantages in actual use.

BULK MATERIAL TECHNOLOGY

Powtech follow-up report