

INNOVATION HIGHLIGHTS

NEW! Innovative powder-coating is now the quality standard for the JACOB pipe-work system



Europe's leading supplier has now raised the bar with regard to industrial standards for coating pipework systems. „We see production efficiency, commercial solidity, and excellence in innovation as a winning combination that guarantees success as soon as the results can be converted into a customer-oriented benefits policy“, say Dr Ralf Jacob and Ralf W. Borchering, referring to JACOB's added value policy. Read more about our impressive performance criteria, such as the FDA approval or electrical conductivity, on pages 2/3.

NEW INNOVATIONS AT A GLANCE

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GENUINE ADDED VALUE AS A MODEL FOR SUCCESS



With our usual dynamic approach and with new impetus, we will continue this year to demonstrate the added value provided by our expertise in pipe-work system technology based on modular design principles.

Latest example: With the introduction of our **new ultra-modern powder-coating system**, we continue to implement our targeted program of investment in order to secure and expand our position as market leader with a „head start through technology“. At the same time, this plant allows us to make a significant contribution to the use of more ecological production methods, by controlling emissions and saving energy.

You will certainly appreciate the innovative quality criteria of our new powder-coating system. Find out more in this newsletter.

We shall also continue to place emphasis on the continuous optimisation of manufacturing processes and on targeted investments in innovative technology and product ideas. This will generate cost benefits that will enable us to keep our prices stable or, in the case of many products, to pass these benefits on to our customers. Although other participants in the market have made noticeable price adjustments within the same period, our 2009 product catalogue will still be based on April 2007 prices!

We are confident that our customers will value our customer-oriented benefits policy.

Together with our subsidiary companies and sales partners, we shall be presenting the advantages of the JACOB pipework system worldwide at numerous prominent trade fairs.

Please come along to exchange information and take a look at our latest innovations.

With our usual creative driving force, we will continue to develop our successful „ORIGINAL JACOB“ model, and press ahead to generate benefits for both sides. You can depend on it: A fair pricing policy, commercial solidity, economic efficiency, and customer-oriented cooperation based on partnership are always the dependable cornerstones of our business policies.

With best wishes from our headquarters in Porta Westfalica, Germany

Dr. Ralf Jacob
Geschäftsführer

Ralf W. Borchering
Geschäftsführer

New! Innovative powder coating is now

**ORIGINAL JACOB –
NEW QUALITY STANDARD
NOW ALSO RAISES THE BAR
FOR PIPE COATINGS.**

The new, ultra-modern powder-coating plant is now in operation at JACOB PIPEWORK SYSTEMS.

Following the introduction of the two robot-controlled, fully automatic laser welding plants, this sets another milestone in the implementation of our targeted program of investment aimed at securing and expanding our position as market leader with a „head start through technology“.

This „state-of-the-art“ equipment provides Jacob’s customers with a well-rounded package of genuine added value: The plant is the most modern equipment available and operates to the greatest possible extent on an automatic basis, creating external plus internal



Genuine added-value - JACOB PIPEWORK SYSTEMS now provides the latest generation of powder-coating as standard for its products.



coatings mobile lances, which are introduced into the pipes ensure that the entire inner surface is evenly coated. We also use the latest generation of powder coating material available on the market. This powder is electrically conductive. Furthermore, the raw materials used meet the most stringent food-grade requirements in the world. They comply with the „FDA“ requirements of the „Food and Drug Administration“, the US regulatory authority.

With regard to certified conductivity, the new coating is electrically conductive and thus invaluable in cases where ignition hazards may develop inside the pipes. Using the simple combination of pull-ring connections and conductive U-shaped seals, we are able to provide our customers with an uncomplicated solution for creating electrically conductive, coated pipework systems.

This performance criteria alone represents a significant innovative advance in quality. It allows the customer to use JACOB PIPEWORK SYSTEMS coated pipes in ATEX applications, without the need for additional earthing lugs and cables.



High tech in action - Mobile lances guarantee a powder coating of consistent high quality, even on the inside of the pipe.

As an alternative, the JACOB earthing bridge® can still be used, of course, in accordance with the customary assembly instructions for primed pipework system elements. No additional or expensive installations or welding work is required for retrofitting existing systems here

JACOB international Trade Show Calendar

With more than 35 representatives located in 33 countries around the world, JACOB MODULAR PIPEWORK SYSTEMS is widely represented. In 2009, we will once again present our pipe system at numerous trade shows, both at home and abroad. In the following, you will find a selected listing of our trade shows. A more complete, constantly updated list of trade shows can be found on our website at www.pipe-systems.eu. We would be pleased if you could visit us at these shows to exchange ideas and professional experience.

ACHEMA
29th Int. Exhibition Congress on Chemical Engineering, Environmental Protection and Biotechnology
May 11th-15th, 2009
Frankfurt, Main / Germany
JACOB PIPEWORK SYSTEMS

International Engineering Trade Fair
May 19th-22nd, 2009
Nitra / Slovakia
Jelinek-Trading

VIV 2009
Animal and Feedmill Equipment
May 26th-28th, 2009
Moscow / Russia
Agrotechnology

KONYA FOOD - FOODTECH 2009
Food Processing & Beverages Technologies, Bakery Technologies
May 28th-31st, 2009
Konya / Turkey
INAN Plastik

Interphex Asia
Pharmaceutical Exhibition
June, 1st-2nd, 2009
Singapore
VALVECO PTE LTD

Belagro 2009
Transport and Feedmill Equipment
June 2nd-5th, 2009
Minsk / Belarus
Agrotechnology

FIP
International Plastics Industry Forum
June 16th-19th, 2009
Chassieu / France
Jacob Dosatec

MSV
51st Intern. Engineering Fair
September 14th-18th, 2009
Brno / Czech Republic
Jelinek-Trading

Now the quality standard



Ultra-modern powder-coating system - Prodigious leap in quality standards thanks to state-of-the-art technology.



Quality control - High-quality powder-coated pipes leave the spray cabin.

combine existing primed components with our new powder-coated parts.

At the same time, the new external coating is more resistant to scratches. Due to the coating thickness of approximately 30-60 µm on the outside of components, the leakage values will not differ from those of the previous coating.

This means that the new innovative powder-coating provides nothing but advantages for our customers.

In addition, JACOB's customers can rest assured that we shall be able to keep our priming prices stable throughout 2009, even though the market price for the innovative coloured powder used is significantly higher. The powder-coating can also be provided in special colours, at an additional charge.

Once again, the new product standard emphasises the customer-oriented benefits policy employed by JACOB PIPEWORK SYSTEMS.

Optimum corrosion resistance - In the 4-zone pretreatment process, the foundations are laid for a surface coating of superior quality.



CUSTOMER BENEFITS OF INNOVATIVE POWDER-COATING AT A GLANCE

- ✓ External coating and consistently even internal coating!
- ✓ Powder-coating that complies with FDA requirements!
- ✓ Electrically conductive powder-coating! (made possible via pipe connections using JACOB pull-rings + conductive EPDM U-shaped seals)
- ✓ Optimised corrosion resistance!
- ✓ Greater scratch resistance!

either. Expanding or retrofitting existing pipe-work systems is no problem, since we still use the previous „pebble grey“ colour, RAL 7032, for our new powder-coatings. Any minor differences in shade are therefore scarcely visible to the naked eye. Our customers are free to

CHIMIE PHARMA

Trade fair for chemical and pharmaceutical industries
September 22nd-24th, 2009
Grenoble Cedex 2 / France
Jacob Dosatec

PPMA Show

Processing and packaging machinery.
September 29th-October 1st, 2009
Birmingham / UK
Jacob UK Ltd.

TESKON-SODEX

8th International HVAC & R Engineering Exhibition
October 8th-11th, 2009
Izmir / Turkey
INAN Plastik

Zolotaya Osenj

Agricultural Machines and Equipment
October 9th-13th, 2009
Moscow / Russia
SIA PRECO

Ug Agro

Transport and Feedmill Equipment
November 17th-20th, 2009
Krasnodar / Russia
Agrotechnology

IPACK

Intern. Packaging and Food Processing Systems Exhibition
October 28th-31st, 2009
Istanbul / Turkey
INAN Plastik

Schüttgut / Bulk Goods Handling

November 4th-5th, 2009
Dortmund / Germany
JACOB ROHRSYSTEME

Agritechnica

Agricultural Machines and Equipment
November 8th-14th, 2009
Hannover / Germany
SIA PRECO

Chem Show

Chemical Equipment, Process Equipment
November 17th-19th, 2009
New York / USA
Jacob Tubing

Plast Eurasia Istanbul

19th Intern. Istanbul Plastics Industry Fair
November 19th-22nd, 2009
Istanbul / Turkey
INAN Plastik

Solids Rotterdam

A dedicated show for the solids industry
November 25th-26th, 2009
Rotterdam / The Netherlands
VDL Industrial Products

P - Mec India

Biggest show for pharmaceutical machinery and equipment in India
December 1st-3rd, 2009
Mumbai/India
Torna Engineering

The best selling JACOB earthing bridge®

The innovative JACOB earthing bridge® for electrical potential equalisation of the pipework systems remains an undisputed best seller.

Summary: Since its introduction into the market, more than 100,000 have been sold in the last 25 months. The advantages of this certified earthing bridge in comparison with the customary earthing cables with lugs are significant. For instance, no welding is required when retrofitting existing systems. The earthing bridge can be fitted easily and securely to the JACOB pull-ring in just a few uncomplicated steps. With the switch to series production, we passed on the associated cost benefits to our customers. Cost benefits: Now more than 50% in comparison with the alternative earthing cables and earthing lugs. Short installation times result in further savings.

Easy to install - assured quality - customer-oriented - ORIGINAL JACOB!



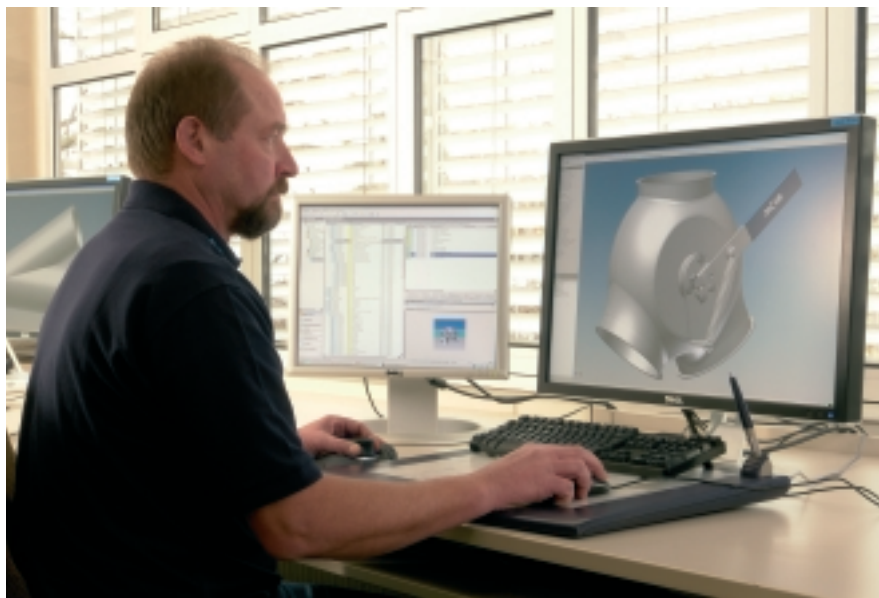
JACOB SERVICE Comprehensive online shop

Compile parts lists and request quotes, or order directly on-line. JACOB customers can find this service on our website:

www.pipe-systems.eu

Register and you will find that the multifunctionality of this tool will help you make significant time savings. Complete parts lists to cover your product requirements can be prepared with just a few clicks and can be saved, printed or sent immediately as a quotation request.

JACOB SERVICE Greatly prized:



Customer service 3-D-engineering drawings

As a service component for their engineering drawings, customers can find drawings of most of our pipework system products on our website: www.pipe-systems.eu, click "Products". You can download these directly from the website or we can send you them, on request, on a DVD. This will enable you to incorporate our pipework system components quickly and effortlessly into your engineering drawings in 3-D (STP/IGS) or alternatively in 2-D (dwg/dxf).

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