



REHAU®

Unlimited Polymer Solutions



RAUPEX INDUSTRIAL PIPING SYSTEM

FOR COMPRESSED AIR, COOLING WATER, INDUSTRIAL HEATING AND SO MUCH MORE!

RAUPEX FROM REHAU:

A SINGLE SYSTEM, TO MEET A VARIETY OF CHALLENGES



DaimlerChrysler AG: Providing welding robots with compressed air and cooling water.

The challenges made on today's industrial pipelines vary widely in their nature. Plant constructors and installers are concerned with fast, easy installation and a comprehensive range of fittings. A subsequent system retrofit should also be possible. Actual operators are more interested in economy and therefore system reliability. Ideally, the entire system should be as maintenance-free as possible.

The RAUPEX industrial piping system from REHAU combines these different demands in a single system. RAUPEX industrial pipe represents the ideal solution for:

- Compressed air;
- Cooling water;
- Industrial heating;
- Chemicals;
- Solids;
- Inert gases;
- and many other applications.

THE SYSTEM COMPONENTS

1. RAUPEX pipe

RAUPEX pipes are made of crosslinked polyethylene (PE-Xa) – a practically indestructible material. The pipe's flexibility permits fast and economical installation – and can also be supplied in coils hence reducing the necessity of pipe joints. With a diameter ranging from 20 to 160 mm and available in two pressure classes they are certainly well suited for any construction site situation. DIN 2403 recommends that pipelines be color-coded in order to avoid incorrect pipeline connections; e.g., compressed air in grey, cooling water in green, etc. RAUPEX pipes are already color-coded correspondingly. Specifically in the area of heating installations, RAUTHERMEX FW pipes are also available in red. Importantly, the RAUTHERM FW pipes are equipped with an additional oxygen barrier to minimize the amount of oxygen entering the closed systems.



2. REHAU compression sleeve jointing technique

The REHAU compression sleeve jointing technique has proven itself in literally millions of applications; a guarantee for secure and fast installation without the need for o-rings. Thanks to its permanent seal it prevents energy losses and ensures low operating costs.



3. FUSAPEX electrofusion fitting jointing technique

FUSAPEX, the electrofusion fitting developed by REHAU and made of crosslinked polyethylene (PE-X) can be employed up to temperatures of +95° C. It combines the advantages of electrofusion fitting jointing technique with those of PE-Xa as a material. In conjunction with RAUPEX and RAUTHERM FW pipes this offers a solid plastic system which is resistant to both chemicals and corrosion.



4. Electrofusion fitting jointing technique

The electrofusion fitting made of PE is suitable for temperatures up to +50 °C and its larger diameters offer an economical and chemically-resistant jointing method for RAUPEX pipes for areas of special employment. The REHAU tapping saddle also allows a branch line to be subsequently created in lines operating under pressure with no interruption of ongoing production.



5. Compressed air accessories

The RAUPEX industrial piping system offers a wide range of accessories and fittings specially designed for use with compressed air such as compressed air distribution fittings, quick-release safety couplers and plug-in connectors.



ADVANTAGES AND BENEFITS



Eberspächer GmbH & Co. KG

Our system advantage	Your benefit
Fast, simple installation	Significantly reduced installation costs, shortened construction times, schedule compliance
Universal system offering a cross-section range between 16–160 mm	Suitable for nearly every industrial medium, no mixed installation
Leak-free	Significantly reduced operating costs Significantly reduced maintenance expenses
Corrosion free	No maintenance expenses, clean compressed air, no lost production due to corrosion particles
Incrustation free	No oversized water-carrying lines, no lost production due to incrustation
Pipe colors in accord. with DIN 2403	See what's flowing through every pipe at a glance, no subsequent color-coding required
Pipes made of PE-Xa	Highest level of mechanical and thermal resistance, both rigid and flexible installation in structures and in the ground possible
Low pipe weight	As a rule, no additional static measures required in order to increase ceiling load bearing capacity
High level of product quality	Long service life combined with significant reduction in operating and maintenance costs.

RAUPEX industrial piping system – highest level of product quality for a long service life with low operating expenses.

RAUPEX REFERENCES

For many years, RAUPEX industrial piping systems have proven their worth with numerous renowned firms. The following represents but an extract from our comprehensive reference list:

Audi AG
BAUER Kompressoren GmbH
BMW Group
Colt International BV
Continental Pneus SNC
C. Bechstein Pianofortefabrik AG
DaimlerChrysler AG
Deutsche Bahn AG
Eberspächer GmbH & CO. KG
Essilor SAC
FRAPORT AG
Häcker Küchen GmbH & Co. KG
Hella KGaA Hueck & Co.
Herforder Brauerei GmbH & Co. KG
Humax Electronics Sp. z o.o.
Kaeser Kompressoren GmbH
Knauf Belchatow Sp. Z.o.o.
MAN Roland Druckmaschinen AG
Moog GmbH
Philips Lightning Poland S.A.
Robert Bosch GmbH
Ryanair Ltd.
Siemens AG
SISTO Armaturen S.A.
SKZ Das Kunststoff-Zentrum
SNCF
Tremco illbruck GmbH & Co. KG
Snowdome Sölden in Bispingen GmbH
Volkswagen AG
Wagner Tiefkühlprodukte GmbH
Winkelmann GmbH + Co. KG
ZF Getriebe GmbH
... and many more.



Winkelmann GmbH + Co. KG



SISTO Armaturen S.A.



ZF Getriebe GmbH

ADDITIONAL PROGRAMS

FOR INDUSTRIAL, COMMERCIAL AND ADMINISTRATIVE CONSTRUCTION



Pre-insulated RAUFRIGO industrial piping system – for efficient transport of cold materials



Industrial underfloor heating - a modern heating concept for buildings employed for industrial purposes



Flexible pre-insulated RAUTHERMEX piping system – for local and district heating supply



RAUPIANO sound insulated waste water system - for domestic applications where silence matters.

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The use of REHAU products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products.

We recommend that the suitability of any REHAU product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you.

Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

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