

THE MASTER OF RUBBER EXPANSION JOINTS

ditec[®]



ditec –

WELCOME!

Absolutely reliable and extremely flexible – the way seal technology should be. We possess these same qualities as a company, and our employees do too.

As a developer and manufacturer of rubber and fabric expansion joints, we base our work exclusively on our customers' demands. We make the seemingly impossible possible – with a high degree of professional expertise and the same level of commitment, combined with decades of experience and the courage to embrace our vision.

Get to know our portfolio of products and services.

Welcome!



ditec –

GROUNDING AND INNOVATIVE

Length, diameter, construction type, number of arches, material: our expansion joints are individualists. We develop every product to meet your precise requirements. Consistently and without compromise. Not even extreme operating conditions or aggressive pumped media present a problem to us, but rather an exciting challenge.

This type of quality and fit can only be achieved through work done by hand. Small series and custom products are our specialty. Give us your requirements and we will do the rest. With the combination of pragmatism and innovative spirit that typifies us.

What should you expect from us? Exactly the right solution!



ditec EXPANSION JOINT – INDIVIDUALISTS FOR INDIVIDUAL REQUIREMENTS

No two projects are alike. Even when the specific requirements in terms of operating parameters vary only slightly, it is only by taking these into account accurately that a long service life and failure-free usage of your expansion joint solution can be guaranteed.

We focus on what we do best: namely the manufacture of rubber expansion joints, including for use under high pressures, as

well as fabric expansion joints for media temperatures of up to 1200°C. We will go over the details in a personal conversation with you. After which our experts will identify the ideal configuration for your needs – that is to say, precisely the individual expansion joint you need for your individual products.

Challenge us!

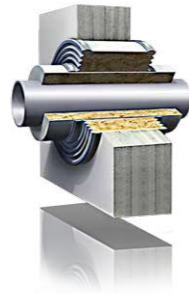
We can solve problems for any special application.



RUBBER EXPANSION JOINTS



FABRIC EXPANSION JOINTS



FIRE SAFETY SOLUTIONS

ditec RUBBER EXPANSION JOINTS – OUR ALL-ROUNDERS

Our rubber expansion joints are all-rounders. Not only that, they are resistant to many different types of media.

We manufacture the following:

Universal, lateral and angular expansion joints

with all the standard connection geometries to fit your pipeline connection.

Rubber expansion joints compensate for axial, lateral and angular movements resulting from a thermal change in pipeline length. They prevent the transmission of mechanical vibrations from machines, apparatus or pumps to the connected pipeline. They compensate for tension and assembly imprecisions. And are able to withstand pressures of up to 40 bar.

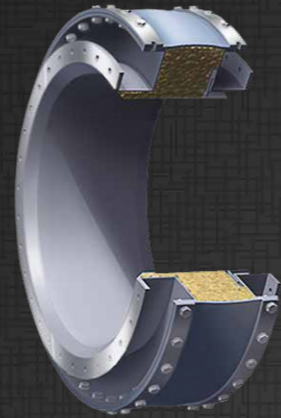
In our production process, we produce single pieces and series. The diameter can be up to 5 metres. Each rubber expansion joint is individually designed and its tolerance are precisely calculated with reference to the Pressure Equipment Directive.



ditec FABRIC EXPANSION JOINTS – QUALITY WITH A TEXTILE FIT

Almost like a tailored suit: We manufacture fabric expansion joints by a traditional hand-crafted process – layer by layer, to your exact specifications. Give us the facts like the connection geometry, details about the medium, temperature, pressure, and the movement the expansion joint is required to accommodate. And we will produce just the expansion joint to match your requirements.

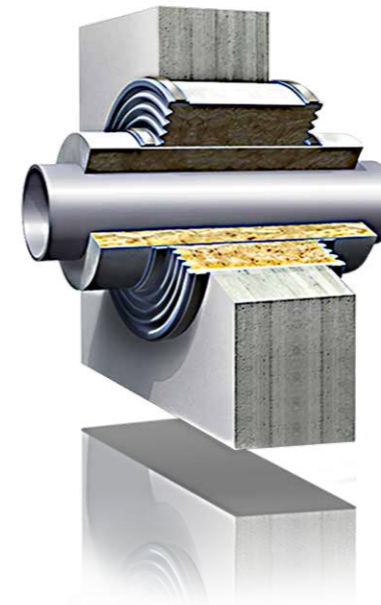
U-expansion joints are possible at operating temperatures of up to 400°C, while belt expansion joints with pre-insulation can be produced for applications of up to 1200°C provided that an appropriate steel structure is in place. The ability to withstand pressures of up to 300 mbar is a standard feature. Depending on the type, fabric expansion joints can accommodate large movements in an axial, lateral or angular direction.



ditec FIRE SAFETY SOLUTIONS – MAXIMUM FIRE AND SMOKE SECURITY

Not even we are able to prevent fires; what we can do is help minimise their spread and their consequences. In addition to an appropriate building structure, measures are needed to restrict the fire to the smallest possible area. Our products play an important role in this regard.

Take advantage of our “fire protection bulkheads”. This system, which has been officially approved by the construction authorities, can be used to securely insulate pipe penetrations through fire walls or fire ceilings. How does this work? The elastic seals accommodate axial and lateral pipeline movements against the wall or ceiling and simultaneously ensure reliable bulkheading in the event of fire and smoke. Tested and approved according to the most recent standard, DIN EN 1366, our fire protection bulkheads for pipelines reliably prevent the spread of fire and smoke for 120 minutes.



ditec – SPECIALISTS FOR THE IMPOSSIBLE

Very difficult, even impossible? Not for us! Extreme requirements are what motivate our specialists to demonstrate what they are capable of. Like particularly unusual dimensions or tricky construction types where no standard measure will do. Or when it comes to certain pumped media where absolutely nothing may escape the pipeline. We rise to these challenges, along with high pressures, extreme heat or cold, and unusual movement accommodation requirements.

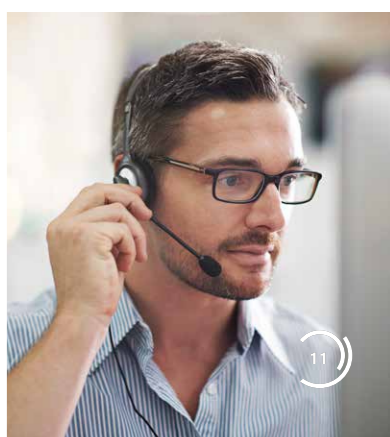
We even identify solutions and adapt our (and thus also your) products to work in extreme locations like the desert, earthquake zones or outer space.

In general: If we do not stock the part that you require in our standard range, we will make it to measure! If yours is a problem that has had no solution hitherto, we will identify one. You give us the parameters like the diameter, length, pumped medium, temperature, pressure and movement requirements – and

we determine exactly the product or system that is right for you. Because we produce our products by hand, we offer maximum flexibility in terms of material composition, dimensions and production quantity. We are also able to produce custom products in small series relatively quickly from our hometown factory. Our vulcanisation autoclaves are inherently able to cope with rubber expansion joints of up to 5 metres in diameter. But significantly larger specimens are also possible.

We do all this in exactly the time you allot for the task. You can rely on your order to be processed rapidly – even if it is urgent.

Just describe your application to us, and we will provide you with personalised advice. Together we will develop the solution that is most efficient for you – for both standard requirements and special applications.



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PRODUCTION AND SERVICE

We produce all our expansion joints where they were developed: at our production facilities in Kitzingen. Our commitment to our German production location forms the core of our philosophy, which privileges the very highest quality above all else. A factory floorspace of 17,600 square metres houses the entire workflow – from personalised order-taking all the way to the packaging of finished products.

Our model making department always keeps a variety of moulds in a variety of standard and custom sizes on hand, which we can usually access and use immediately on request. This puts us in a position to respond rapidly to orders at extremely short notice, and to produce single pieces as well.

We possess an in-house calendar plant and in-house vulcanisation facilities. A metalworking company directly adjacent to the plant manufactures all the steel accessories we require.

The advantages of this type of concentration in a single location are obvious: we are able to make all the essential components in-house and are therefore largely independent of vendors. Meaning that we can assure prompt, reliable handling of even your most urgent orders.

Not only that: being in Kitzingen means that we can draw on the expertise of all our employees at all times. This is the only way we can manage our customers' most stringent demands.

Our comprehensive customer service includes, in addition to on-site measurements, the complete engineering process, installation and installation monitoring, acceptance of newly installed expansion joints, as well as regular inspections of the expansion joints at your facility.





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QUALITY IS THE PRIORITY

At our company, the very highest quality is anything but a by-product. We do our utmost to sustainably ensure the quality of our products – for instance, by performing internal strength tests and by commissioning tests by laboratories and by independent materials testing institutes.

Depending on the specific requirements, all acceptances and pressure tests can be performed at our factory with the customers or their appointed expert present.

Our quality management system in accordance with ISO 9001 successfully passed an audit by TÜV Management Service GmbH in 1998. In May 2004, we earned the right to provide our rubber expansion joints with a CE marking in accordance with Pressure Equipment Directive PED 97/23/EC, up to category III. Our company has been certified in accordance with BS OHSAS 18001 since June 2008.

We possess a KTA 1401 certification and are an authorised nuclear supplier for the VGB consortium.

Our metalworking affiliate is certified according to EN 3834-3 and DIN EN 1090-2. Our affiliate also holds an approval in accordance with AD2000-Datasheet HP 0, and thereby fulfils the welding prerequisites for the manufacture of pressure equipment.



ditec – **HISTORY**

Manfred Adam founded the ditec company in 1973 at Mainkai in Kitzingen. The company relocated to Kitzingen's Hafen industrial area in 1988. The children of ditec's founder joined the company in 1996: Christoph Adam, who has a degree in chemical engineering, and Gabriele Adam, the company's accountant, now manage the company as co-equal Managing Directors.

ditec's dynamic development is attested to, among other things, by the development of numerous commercial agencies and partnerships on both European and international markets.

The annual sales volume has risen from € 2.5 million in 1996 to a current figure of € 10 million, of which exports currently account for around 45 per cent. In the professional field in Europe, the United States, South America, Russia and large parts of the Arab world, ditec is synonymous with ultimate quality, reliable delivery and flexibility.

ditec relies on the principle of "all services from a single source". Adam Metallbau GmbH has become the in-house supplier of all needed steel elements. The company has its own carpentry, a calendar and in-house vulcanisation facilities. All of the company's know-how and its entire material flow and workflow are under a single roof.



ditec – EMPLOYEES

ditec's team currently numbers some 90 employees – meaning that their ranks have more than tripled over the past two decades. What remains constant is the family atmosphere and the cooperative approach we take to our work. At our company everyone feels connected, and people lend each other a helping hand.

In the absence of this collaborative spirit, a real handicraft factory like ours would be inconceivable. After all, we literally work hand-in-hand here. Many manufacturing processes require at least four hands at once. Naturally we need just as many heads, because we only stand where we do today because of the combined expertise of our entire team.

At ditec, everyone still knows everyone else, and everyone knows what their colleagues are working on. We look not only at the technical skills of the individual, but also at his or her life history, wishes and needs. In other words: the whole person. Only in this way is the true team spirit that characterises our company possible.

YOUR PROJECT WITH ditec –

A FEW CASE STUDIES

The following will allow you to form an initial impression of what collaborating with us can be like – depending on the specific intended application and individual challenges from project planning to installation and maintenance:

01 PTFE-LINED RUBBER EXPANSION JOINT, COPPER MILL ALTONORTE, CHILE

Multiple-arch universal expansion joints made from EPDM rubber with a PTFE lining applied on the inside through a vulcanisation process, plus large construction lengths for the accommodation of lateral earthquake movements of up to +/-120 mm. Installed in the Chilean copper mill Altonorte in the wet gas channels of the sulphuric acid plant. Support rings vulcanised into the arch apex stabilise the rubber bellows against the operating vacuum of 100 mbar.

02 5 PIECES MULTI-ARCH RUBBER EXPANSION JOINT SUPPLY, TURKEY

DN 3600 universal expansion joints for the cooling water inlets of the Zonguldak thermal power plant in Turkey. 5 arches for axial movements of up to +/-350 mm and lateral movements of up to +/- 175 mm.

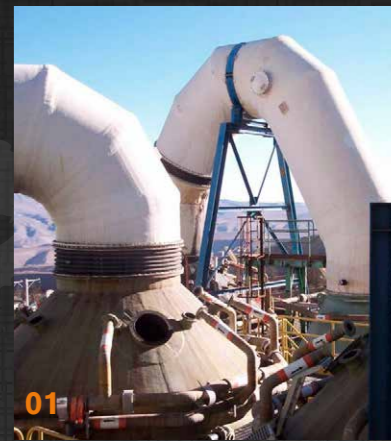
03 LATERAL EXPANSION JOINT DN 3600, YANBU, SAUDI-ARABIA

Delivery of 512 rubber expansion joints with nominal diameters from DN 300 to DN 3600 for the cooling water pipes of the Yanbu Power and Water Utility Plant in Saudi Arabia. Pictured, a lateral expansion joint with a nominal diameter of DN 3600, installed in the GRP pipeline, factory pressure-tested at 15 bar.



For current case studies, scan the QR-code.

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