



**BACHMANN
INDUSTRIES, INC.**

High Performance Expansion Joints

• Metallic Expansion Joints

• Fabric Expansion Joints



"Defining the Leading Edge in Technology and Economy Worldwide"®

 **BACHMANN**

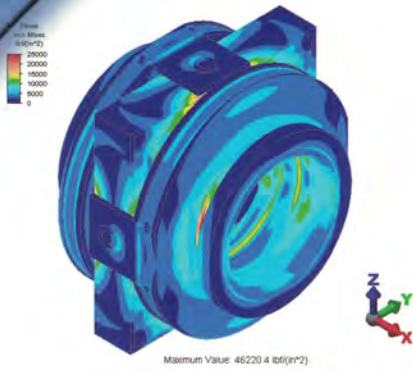
Metallic Expansion Joints

Bachmann specializes in critical-service custom designs including multi-joint systems with connecting piping. The superior engineering and quality materials used provide a long service life delivering solid value in every application.

The Bachmann **Conv-Flex Series of metallic expansion joints** are designed and manufactured in strict accordance with applicable codes and standards such as EJMA, ASME B31.1 & B31.3.

Full Range of Features Available:

- Variety of end connections
- Factory pressure testing
- Internal flow liners
- Multi-ply bellows with redundant ply monitoring
- Restraint and control devices
- Single and multi-layer insulating and abrasion resistant refractory linings
- Hot wall designs with floating hardware
- Clamshell repair bellows
- Internal and externally pressurized designs
- External covers provided as removable and/or sealable
- Straight-through bore designs via packed or purged bellows mounted to radially expanded pipe sections



Experienced Supplier

Bachmann Industries designs, fabricates and installs a full line of custom metal and fabric expansion joints. Our products are found in industrial facilities all around the world where sound engineering and reliability are critical.

Incorporating proven **Bachmann technology**, the Company has supplied high performance expansion joints for over 40 years, earning a global reputation for high-integrity designs and dependable performance.

Bachmann's custom-engineered solutions optimally address the unique challenges of each application by using advanced in-house technologies, such as Finite Element Analysis (FEA), Thermal Stress Analysis, Computational Fluid Dynamics (CFD) and 3D Modeling. Many processes, such as fluid catalytic cracking (FCCU) and advanced gas processing technologies present tough challenges calling for highly engineered components.

Our **high quality equipment** meets requirements ranging from clean air to industrial dust-laden gases and from corrosive scrubber flue gas to high temperature combustion turbine applications.

Convo-Flex Series High Performance Metal Expansion Joints		
Shape	Round	Rectangular
Size	406 mm (16") to 6,100 mm (240")	Unlimited; field-spliced for shipping
Pressure	Full vacuum to 500 psig (3447.4 kPa)	Full vacuum to 25 psig (172.4 kPa)
Temperature	Cryogenic to 1,093° C (2,000° F)	-40° C (-40° F) to 1,093° C (2,000° F)
Materials	Stainless steel to high nickel alloy	Stainless steel to high nickel alloy
Compliant with EJMA and ASME B31.3, B31.1	Yes	Yes
Customization	Full range of specialized custom designs and accessories available	



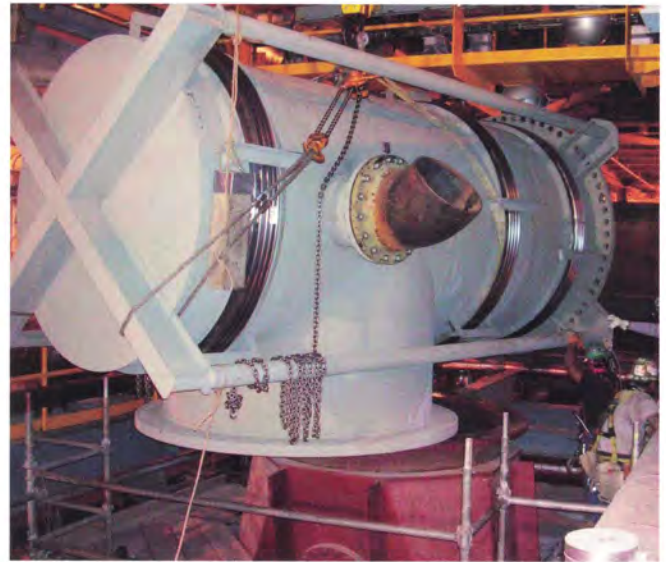
Fabric Expansion Joints

Bachmann Non-Metallic Fabric Expansion Joints provide a proven solution for tough applications and are suitable for low-pressure ducting applications including power boiler intake and flue gas ducting, combustion turbine exhaust systems, petrochemical and various other industrial applications.

Fabric expansion joints absorb movements caused by thermal changes and are capable of multi-plane movements in small breach openings and produce very low spring rates.

A variety of flexible element materials may be selected for corrosion resistance, temperature requirements, and other specific application requirements.

To address each particular application, the flexible element (molded flange, flat belt, or diaphragm) is designed for the specified temperature and chemical environment. Further, each metal frame design (hot frame, cold frame, telescoping liner, etc.) has specific longevity and application advantages.



Aftermarket Sales & Support

Bachmann is a trusted partner for responsive customer service in expansion joint inspections, repairs, and installations around the world.

Experienced in servicing equipment in even the most demanding applications, our full-time support team is trained to troubleshoot problems and provide able assistance to assemble, install, and commission metal and non-metallic expansion joints. Bachmann's network of regional installation crews, including highly skilled welders, is ready to inspect, repair and evaluate your equipment.

A true solution provider, **Bachmann also offers aftermarket services for equipment supplied by all major expansion joint manufacturers.**



Non-Metallic Expansion Joint Styles

Style	Description	Style	Description
A	 Belt-only, mounted directly to the duct or as a replacement on an existing frame. Emergency replacements available for same-day shipment anywhere globally.	E	 Overlapping liners for smooth gas flow and to protect the belt and insulation from abrasive particulate. Insulation serves as acoustic barrier and thermal insulation.
B	 Hot-molded flange, self-sealing elastomer for low-temp applications; fabricated in the composite build-up for high-temp. Metal frame not required.	EMOD	 Similar to the "E" style, but used where external bolting to the mating duct flange and fabric mounting is desired. Refractory lining of the joints is available.
C	 Captive angle prevents dust accumulation in joint cavity and accommodates large lateral movements. Floating angle in constant contact with joint frame and liner.	F	 Belt mounted to angle frame. Modified designs for installation inside or outside existing metal expansion joint. Eliminate costly removal of failed joint or asbestos.
D	 Accommodates large axial movements; may include a captive angle. Belt geometry and insulation mounting allow proper movement of flexible elements.	GTJ	 Patented design handles rapid thermal stress from GT exhaust. Metal components in gas stream thermally expand without adverse effect.

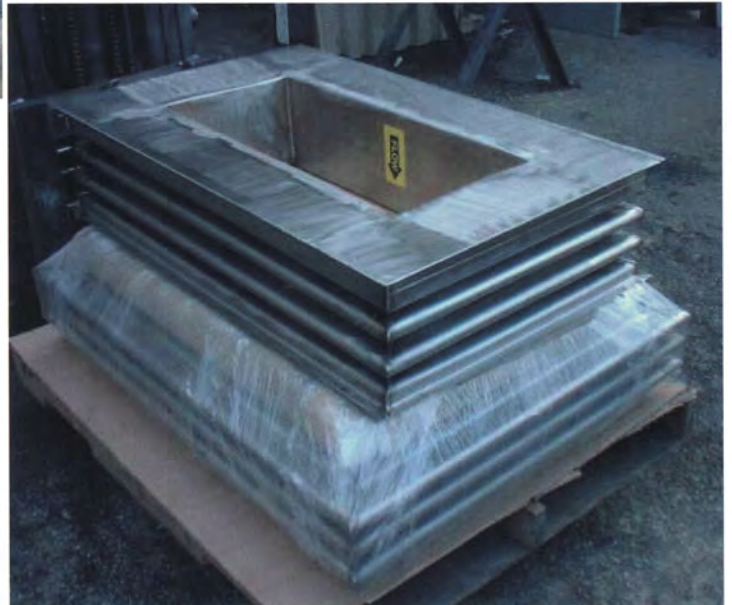


Excellence with Experience,
from Design to Installation and Operation



ISO 9001:2015

CERTIFICATE NUMBER: 51634



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