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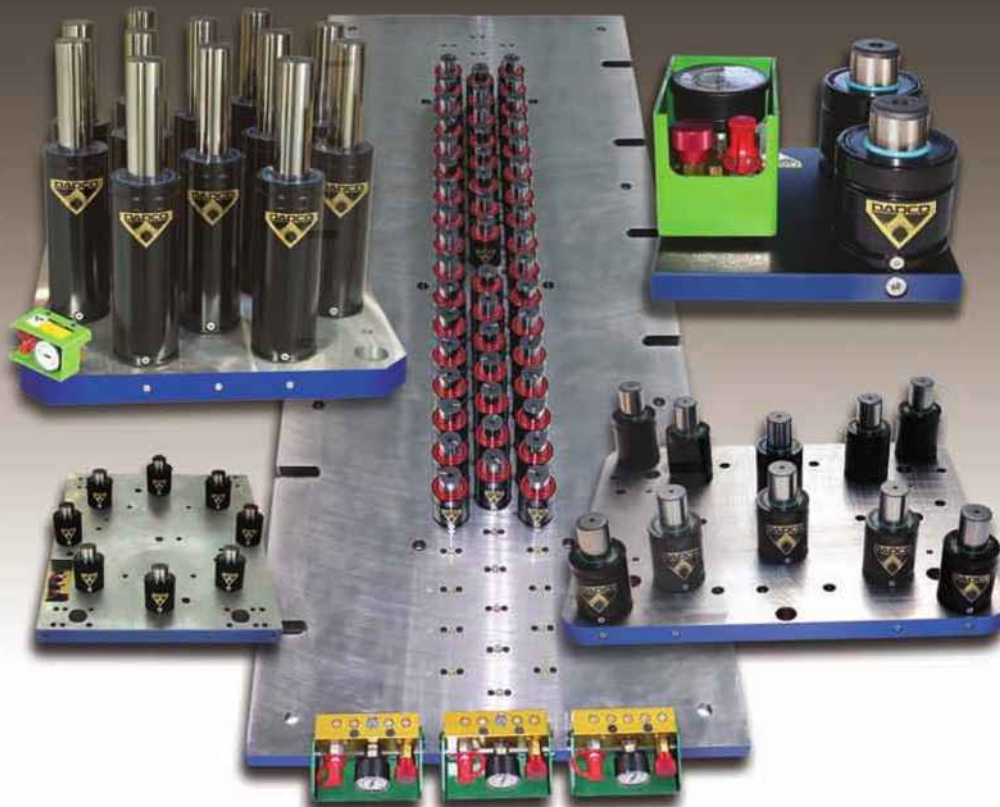
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SPECIAL EMPHASIS:
Punches, Die Sets, & EDMing

Alternative to Traditional Manifolds



DADCO® Providing customized systems
based on application requirements

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DADCO Provides Alternative to Traditional Manifold Systems!

Cover Story: DADCO

Metal stampers who have long desired an alternative to traditional nitrogen manifolds now have one: the Sectional Mounting System-Internal (SMS-i™) from DADCO. The SMS-i™ is a complete nitrogen package utilizing DADCO's nitrogen gas springs mounted to a base plate. The springs are connected by passages drilled within the plate, obviating the need for external hose and fittings. DADCO's SMS-i™ is less expensive, offers superior performance and is easy to maintain.

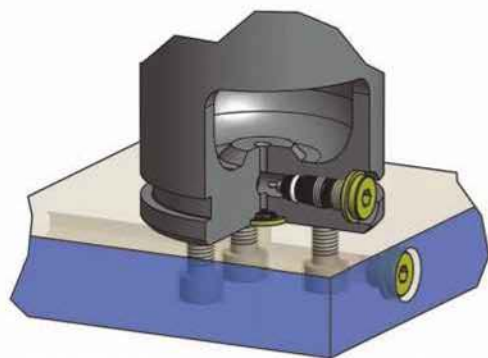


Example of SMS-i™ designed to retrofit existing manifold system.

DADCO has been making custom SMS-i™ plates since 2002. Spurred by customer requests for tightly configured nitrogen gas spring systems, the

SMS-i™ concept originated from collaboration between DADCO's engineering staff on two continents. Since then, DADCO has designed numerous systems, working individually with each customer to ensure their application requirements are met.

SMS-i™ Connection



DADCO gas springs used in a SMS-i™ have a bottom port, and are attached to the base plate with a sealing washer and standard mounting hardware.

Advantages

A SMS-i™ provides all the benefits of self-contained gas springs in a linked system, and eliminates external plumbing by machining a series of passageways in a base plate. Gas springs are attached through a bottom port. The SMS-i™ facilitates filling, draining and monitoring from control panel(s) mounted directly to the plate or at another location outside the die.

SMS-i Features

- Simplifies design with internal plumbing
- Tight configurations possible
- Cost effective
- Quick delivery
- Less machining in the die
- Easy maintenance and installation

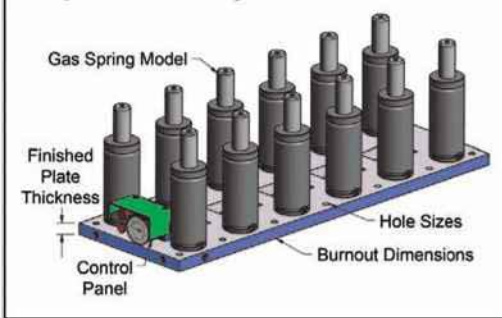
Customer Application

Performance Tool & Die, a progressive die builder in Lakeville, Minnesota had an ideal situation for a SMS-i™. Working with DADCO's engineering team they decided on using a DADCO SMS-i™ system for a two station progressive die. The end user, an automotive stamper, requested a system without air cushions and where they could adjust the pressure outside the die. Ron Barnes, Engineering Manager at Performance Tool & Die stated, "The DADCO SMS-i™ is a simple, neat package and was very easy to order."



SMS-i™ for Performance Tool & Die featuring DADCO's Ultra Force Series.

The SMS-i™ that DADCO built for Performance Tool & Die features DADCO's popular high force, low profile Ultra Force® Series nitrogen gas springs. Incorporating four U.0400 and four U.1200 gas springs, this SMS-i™ provides up to 12,700 lbs. of force on contact. Adding to the overall versatility of the SMS-i™, DADCO installed two Mini Control Panels. This provides the end user the capability to easily monitor and vary the pressure across the system. "It allows our customer to regulate the pressure as they need to," said Barnes.

Sample SMS-i™ Layout**Recommendations and Design Practices**

DADCO's sales and engineering staff can provide a custom proposal for a new system or retrofit an existing system to a SMS-i™. Using their extensive design skills, DADCO's engineering staff works closely with customers to ensure each SMS-i™ meets exact specifications. To get the most effective system DADCO recommends following some basic guidelines; DADCO product engineer, Jeremy Kluck, explains, "There are many items to take into consideration that will increase the cost efficiency of a SMS-i™, placing cylinders in-line as often as possible minimizes drilling required and allows for tighter configuration of the gas springs. Limiting the number of sides on the plate that will be used for porting is also beneficial."

Contact **DADCO** to discuss your SMS-i™ requirements.



Example of a tight configuration with (20) ISO/90.10 Series Gas Springs, one of the features of SMS-i™.

About DADCO

DADCO, the global leader in nitrogen gas spring technology, produces top quality products at competitive prices and provides a superior level of customer service. Founded in 1958, DADCO is the highest volume producer of gas springs for press tools. DADCO's products are widely approved and used in global operations for many industries including metal stamping, automotive and plastic injection molding.

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DADCO's motto is "Whatever it takes to satisfy our customers," and will assist in any way possible to ensure that customers are completely satisfied. DADCO always welcomes feedback from customers regarding product use and desire for new products. You can contact **DADCO** at:

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