WE PARTNER WITH YOU

We partner with you to provide force-generating products and solutions to lower your costs and increase your productivity in the forming of manufactured parts.

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Hyson Products designed and manufactured the first pneumatic die cylinder in 1939. From that auspicious start, we continued to expand the technology of force to answer customer needs, developing the first nitrogen gas spring in 1964 and delivering the first nitrogen manifold system that same year. A recognized leader in nitrogen gas systems, Hyson acquired the hydraulic Di-Dro Advanced Forming System in 2007 and has enhanced and redesigned the product to include both modular and custom-designed systems with a maximum force of 4000 psi.

Hyson brands, including Nitro-Dyne® and Tanker®, are well-respected throughout the industry, and our ISO 9001-2008 and PED certifications attest to our ongoing commitment to the highest standards of quality.

Hyson Products has adopted a Lean culture that embraces all aspects of our business operations and encourages continuous improvement throughout the organization. With each employee actively involved, sharing knowledge and ideas, we strengthen our value proposition to customers and drive our company to be world class. The solutions we offer you are based on the same underlying philosophy of improving your manufacturing processes and ultimately your business results.

Hyson is backed by the financial strength and long history of Barnes Group Inc. (NYSE:B), a diversified global manufacturer and logistical services company focused on providing precision component manufacturing and operating service support. Founded in 1857, Barnes Group Inc. employs almost 5,000 worldwide.

Hyson Products remains at the forefront of technical innovation, working with customers like you to provide cushions for new press builds as well as press upgrades and retrofits. Our success across a wide range of industries and applications lies with our ability to establish long-term relationships and to offer tailored solutions to meet customer needs.

Our strength stems from working closely with you to create value and to provide support from design and production through installation and service. We have the experience and expertise to do just that, and our engineering team and sales and service personnel are ready for your call.
THE HYSON PRESS SOLUTION

MORE FORCE
Our systems provide more force in less space, increasing cushion tonnage and expanding press capabilities to make your presses more flexible and able to handle more jobs.

ENERGY EFFICIENT
Our systems are self-contained, green alternatives providing direct energy savings because no motors, compressors or shop air are required. Our systems often eliminate the need for surge tanks and power units, and fewer components mean less maintenance and reduced downtime.

EASY INTEGRATION
We recognize that change is difficult and takes effort so our systems are customized to fit any press. It is an easy cross over whether or not your press currently uses a cushion. And our cushions are user friendly, featuring easy set-up and adjustability.

CUSTOM-ENGINEERED SOLUTIONS
Our engineering team is ready to design a system for your application. We welcome a challenge and the opportunity to use our current technology or to develop something new.

MANUFACTURING CAPABILITIES
Within the 100,000 square feet of our ISO 9001-2008 certified manufacturing facility, we leverage our highly-trained personnel and the latest equipment to ensure that our products meet the highest standards of quality and performance.

GLOBAL SALES AND SERVICE
With manufacturing, sales and service headquartered in the USA, Hyson maintains technical service centers in Canada, Mexico, Sweden, China and Korea as well as a large distribution network to support customers worldwide.
WHY CHOOSE HYSON?

Our nitrogen and hydraulic cushions replace air cushions and other systems to ensure that your operations are running at peak performance, improving your bottom line.
FORCE GENERATING SOLUTIONS
RAM AND BOLSTER CUSHIONS

Hyson Products offers a complete line of press cushions designed for installation in new press lines or for refurbishing existing presses. Whether the press is equipped with an air cushion or no cushion at all, we can easily retrofit the press to meet both space and performance requirements.

FEATURES & BENEFITS

- A green alternative to a standard air cushion which requires shop air, compressors and motors, the Hyson cushion reduces energy consumption and lowers operating costs.
- Offering two to three times the force in the same space compared to air cushions, the Hyson cushion gives you the flexibility to quote more jobs.
- Taking nitrogen out of the die and placing it in the press, the Hyson cushion reduces working capital and tooling costs.
- Self-contained and fully adjustable, the Hyson cushion allows quick and easy tonnage changes.
- Retrofittable to your current press.

HYDRAULIC CONTROLLABLE CUSHIONS

Hyson Products offers hydraulic controllable cushions, ideal for forming high strength, thick steel cross sections and for deep drawing applications. These cushions give you the ability to control the force as well as lock down the system so that no force is generated on the return stroke of the press. The result is less press wear and better part quality, both of which can have a positive effect on your bottom line.

FEATURES & BENEFITS

- Offering lock down capability, the Hyson controllable cushion eliminates part inversion to provide better part quality and reduce scrap.
- With low contact and return force, the Hyson controllable cushion helps reduce reverse tonnage and press wear.
- With constant force and no pressure rise, the Hyson controllable cushion allows better control of part quality.
- Self-contained, the Hyson controllable cushion installs easily.
- A high force hydraulic system, the Hyson controllable cushion requires fewer cylinder to reduce maintenance costs.
APPLICATION: Heavy gauge stamping.

CHALLENGE: Portable, delay-capable ram cushion required.

SOLUTION: Hydraulic ram cushion.

ROI: Allowed more use of existing equipment. Realized significant cost savings.

APPLICATION: Automotive body panels.

CHALLENGE: Complex forming process and limited shut height.

SOLUTION: Hyson Lean Stamping System™

ROI: Eliminated repeat acquisitions; reduced maintenance and parts inventory.
APPLICATION: Heavy gauge snow mobile parts.

CHALLENGE: Develop a self-adjusting knockout system.

SOLUTION: Self-contained Hyson knockout system.

ROI: Reduced maintenance, better serviceability, and significant lifetime cost savings.

APPLICATION: Heavy gauge stamping.

CHALLENGE: Design system housed in rolling bolster.

SOLUTION: Nitrogen bolster cushion.

ROI: Reduced maintenance; avoided cushion being housed in the pit of the press.
PRESS CUSHION APPLICATION SHEET

<table>
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<tr>
<th>Customer Name</th>
<th>Title</th>
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<tr>
<td>Company</td>
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<tr>
<td>Telephone</td>
<td>Fax</td>
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<tr>
<td>Email</td>
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OBJECTIVE
What problem or productivity enhancement will the proposed solution solve?

Examples:
- Increased part quality
- Decrease scrap
- Reduce maintenance
- Multiple tool flexibility

Is there a budget for this system? If so, please provide estimated amount.

TECHNICAL
What type of solution is being discussed to meet the objective?
- [ ] In Die
- [ ] In Press
- [ ] Upper System (inverted)
- [ ] Lower System

Cushion System: A cushion system is viewed as an in press solution such as an Air Cushion mounted in the bed of the press. Cushions typically distribute force to a common plate which in turn can distribute a load to parts of the tool/die through transfer pins.

- [ ] 4-Post Cushion
- [ ] Stud Mount Cushion
- [ ] Spring Box Cushion
- [ ] Ram Cushion
- [ ] Bolster Cushion
Will the system require a delay function?  □ yes  □ no
What is the maximum area available?  height __________  width __________  length __________
What is the tonnage required? __________
What is the work stroke required (maximum travel of piston rod needed)? __________
How many pressure points are required? __________
How many strokes per minute will the tool run? __________

COMMENTS/NOTES:

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Please complete and email to engsolutions@asbg.com or fax to 440-838-7684.