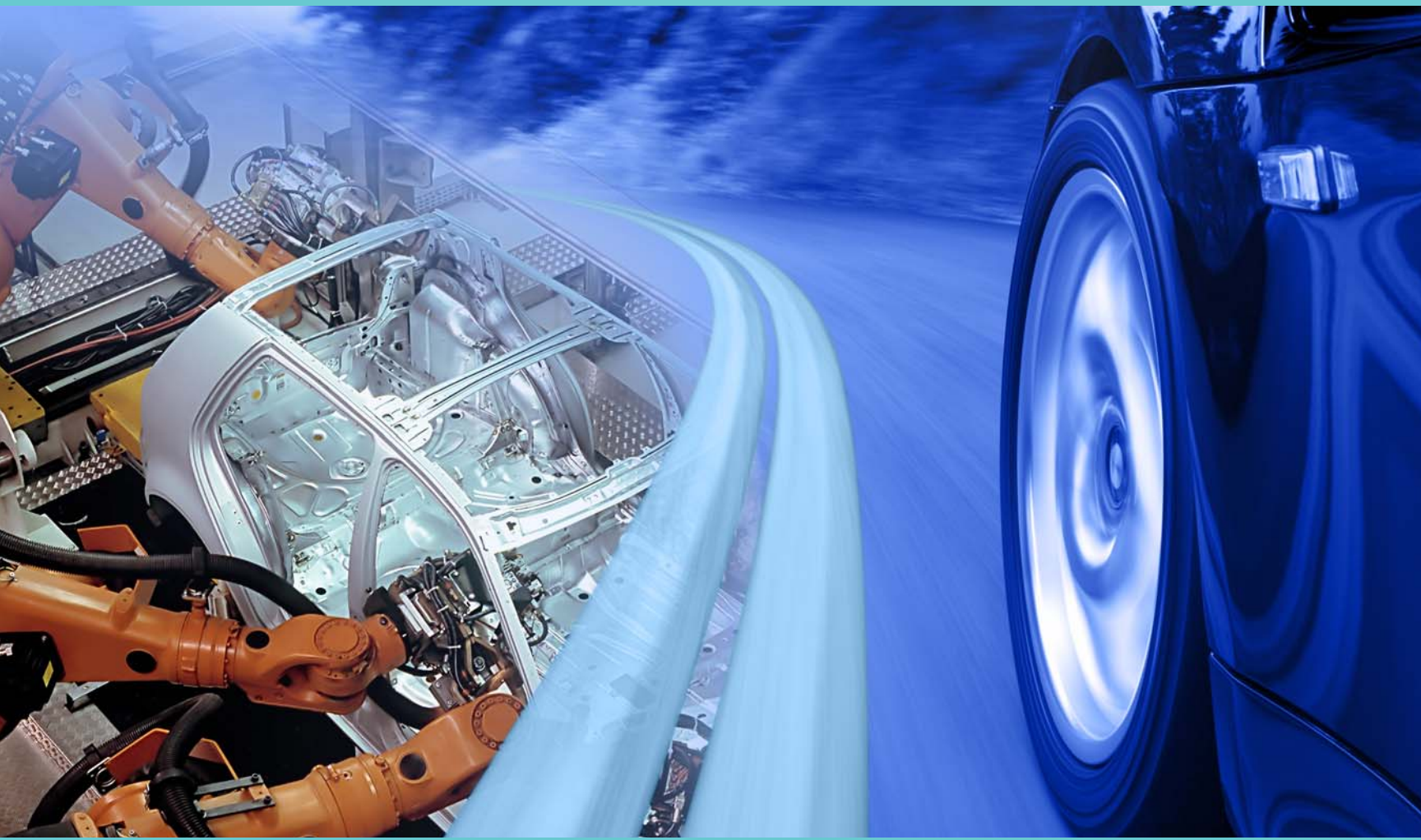


# ASCO numatics™



## **Fluid Power and Pneumatic Solutions** for Automotive and Tire Manufacturing

[www.asconumatics.com](http://www.asconumatics.com)

  
**EMERSON**  
Industrial Automation



*ASCO Numatics provides the industry's best value in pneumatic automation solutions for automotive and tire applications. Our technology leadership, proven reliability, and global support greatly reduce time, efforts, and costs for our users and OEM partners worldwide.*

## Presenting ASCO Numatics solutions

### Proven to boost production and profits

ASCO Numatics is a leading provider of fluid, pneumatic, and motion control components and systems. Top automotive and tire makers as well as manufacturers of original equipment for plant automation rely on our unmatched ability to improve an entire automated process.

Our complete solutions greatly reduce costs, simplify installations, and increase productivity for our partners. ASCO Numatics shortens installation and commissioning; slashes front-end purchases of switches, routers, power supplies, and processors; and reduces cabling. We also help manage I/O and network interfaces better than any other supplier. Results: a simpler system — one that's easier and much less expensive to purchase, implement, diagnose, and maintain.

### Right for all your applications

Our total systems solutions bring special advantages for almost any automotive or tire plant application. ASCO Numatics delivers excellent performance everywhere from the output of the compressor through the powertrain gripper cylinder, and from the end effector vacuum cup picking up a roofline panel to the actuator working the tire extruder.

Automotive design engineers worldwide specify ASCO Numatics for applications including

- Body in white (BIW)
- Powertrain
- Assembly material handling
- Stamping
- Paint
- Conveyors
- Fixtures
- Work-holding
- Palletizing
- Sorting

Tire manufacturing designers across the globe also apply ASCO Numatics to demanding process areas including

- Curing presses
- Extruders
- Cutters
- Windup stations
- Material handling
- Feeds/conveyors
- Tire building machines

### Ahead of the field in fieldbus

Other pneumatics manufacturers claim some fieldbus communications. Only ASCO Numatics provides a new, completely modular, distributable I/O electronics platform with full fieldbus functionality.

All our system's electronics modules plug together for easy assembly and field changes, in either centralized or highly distributed, flexible applications. You eliminate extraneous network layers, while greatly reducing expensive wiring, switches, node counts, and commissioning time.

The technology is available in a wide range of protocols, including DeviceNet™, DeviceLogix™, EtherNet/IP, PROFIBUS® - DP, PROFINET®, InterBus-S™, ControlNet™, AS-Interface®, and FOUNDATION fieldbus™ to name a few.

### Designed for double-digit savings

ASCO Numatics technology is designed to reduce system complexity. It cuts air consumption and component footprint, while maximizing performance. You get substantially increased savings in operations and maintenance, for the industry's lowest installed and ownership costs.

Add in our unique ability to manage an entire system, and you can reduce costs by double-digit percentages.



DeviceNet is a trademark of ODVA.

ControlNet is a trademark of ControlNet International, Ltd.

DeviceLogix is a trademark of Rockwell Automation.

AS-interface is a registered trademark of AS-International.

PROFIBUS and PROFINET are registered trademarks of Profibus International.

FOUNDATION Fieldbus is a trademark of Fieldbus Foundation.

InterBus-S is a trademark of Phoenix Contact.





## Key solutions



### Numatics Valve Manifolds

Get precise fluid power from three-way and four-way models such as pilot valve manifolds designed to ISO 5599 and 15407 standards. Our vast array of valve sizes for every application includes lightweight and compact designs, plus some that eliminate internal wiring for greater manufacturing efficiency. Simple installation and setup reduce overall costs.



### Numatics Pneumatic Actuators

Select from the widest possible range of cylinders, many designed to NFPA, ISO, and CNOMO standards. Robust and durable, they still fit design and maintenance budgets. From lightweight bodies to large-diameter, heavy-duty models, apply them to everything from fixturing location and assembly bolt checking to cutter actuation or tensioning and brake use on tire building machines.



### Numatics Air Preparation

Our filters and versatile Sentronic proportional regulators offer high-performance yet cost-effective treatment of air quality and pressure in the plant or on the tire line. You also get unmatched flexibility, with very small to very large piping and port sizes, as well as the industry's broadest selection of micron ratings.



### Numatics Rodless Cylinders and Air Bellows

Our guided and nonguided rodless cylinders furnish no-maintenance convenience and heavy-duty construction for demanding applications. Apply them everywhere from conveyors to lift assists to shuttles and sorters. Our high-force, small-footprint air bellows deliver superior vibration damping for injection molding and more.



### ASCO Fluid Control Valves

Our versatile, proven ASCO RedHat solenoid valves are ideal for applications from steam handling on tire curing presses to fluid dispensing or filling in trim chassis processes. One robust new piston operator valve specifically designed for demanding tire curing service offers a compact footprint; high performance; a long, reliable life; and easy maintenance.



### Numatics Vacuum Products

Choose from a broad selection of vacuum generators with the industry's lowest air consumption. Also, arrays of suction cups, vacuum switches, and peripheral devices supply superior performance for material handling.



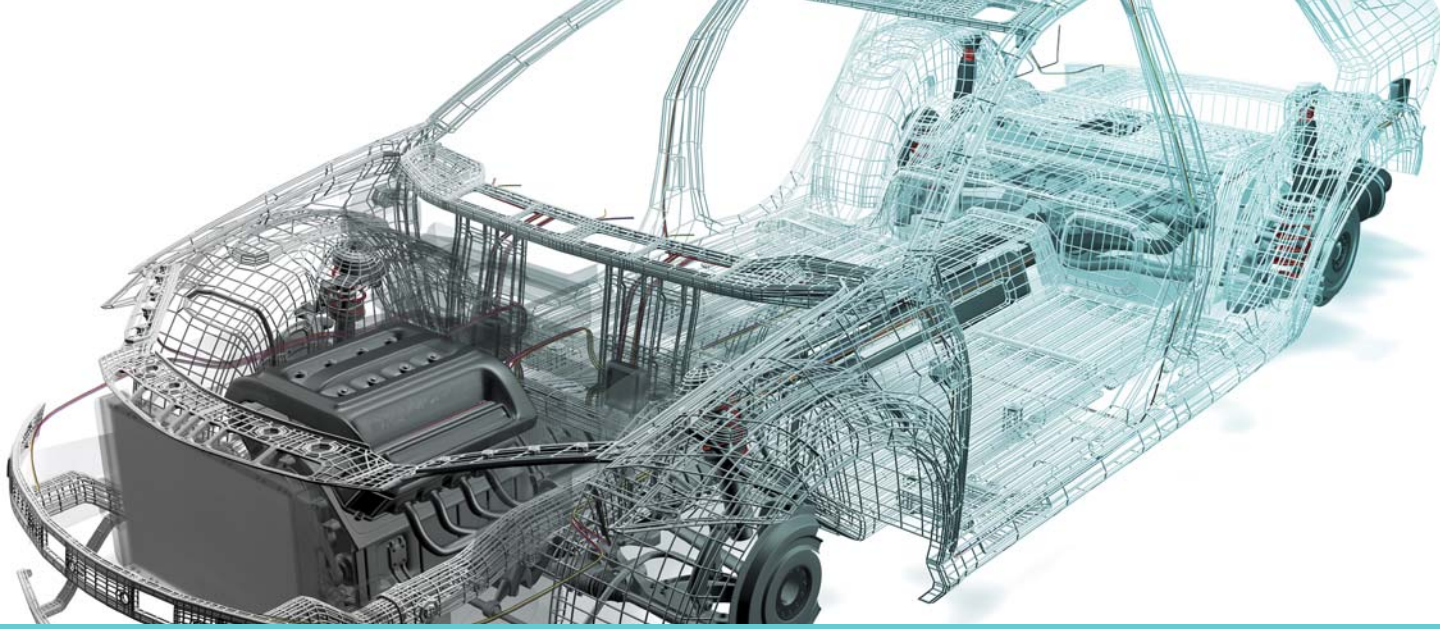
### Numatics Motion Controls

Our wide range of ISO- and NFPA-conforming actuators and linear guided cylinders, slides, grippers, and multi-motion products suits your most demanding designs. Bore size for bore size, some of our products can carry the heaviest loads in the industry. Our controller/motor/motion control systems put everything in one convenient, reliable package.



### Numatics Accessories

For efficient installation on automotive and tire equipment, our accessories range from pilot-operated check valves and tubing to flow controls to a wide choice of muffs. Our popular fittings provide one versatile thread design for multiple thread types, cutting inventory — and overhead.



### Packed with advantages

**Total solution sets.** ASCO Numatics provides a comprehensive range of models, sizes, and configurations across multiple product lines. This versatility reduces part numbers, costs, and inventory.

**Assured expertise.** Our people bring to bear over 100 years of experience in automation — including tire plants and auto assembly lines across the globe. ASCO Numatics has installed more than 30,000 nodes in auto and tire plants worldwide.

**Intelligent technology.** Our engineering matches the range of your applications. From lightweight extruded cylinders for robotic handlers to I/O with unique DeviceNet quick-connect capability, ASCO Numatics designs have what it takes to get your job done.

**Solid dependability.** One issue with a valve, switch, or actuator can grind your line to a halt. Unlike lesser components, our products are designed and manufactured to maximize durability and performance. Count on absolute reliability, time after time, plus the industry's longest life expectancies.

**Global reach.** ASCO Numatics is part of the Emerson Industrial Automation Group, offering field sales plus rapid product repair/replacement and technical/application support on six continents. Get world-class attention anywhere you operate.



### Known for leadership worldwide

ASCO Numatics, a division of Emerson, offers comprehensive flow control and pneumatics solutions for a wide range of industry-focused applications. The ASCO Numatics line comprises more than 50,000 valves, an extensive selection of air preparation equipment, and a comprehensive line of motion control products. The company is the world's leading manufacturer of solenoid valves.

Emerson (NYSE: EMR), based in St. Louis, Missouri, U.S.A., is a global leader in bringing technology and engineering together to create innovative solutions for customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2008 were \$24.8 billion.



## Global Contacts

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