Automotive and Tier 1 supplier industry
You are always in the fast lane.  
You create technological trends.  
Our engineering gets your machines up and running.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

Your objective: cost-effective implementation of ultramodern production lines.  
Our solution: efficient and reliable systems with electric and pneumatic equipment.

Whichever automotive production processes you focus on, you will undoubtedly come across Festo – in the shape of intelligent solutions that offer far more than just components and sub-systems and targeted support and services which lastingly increase the productivity and availability of your systems. This process know-how makes us your ideal partner. Judge for yourself.

For more information:  
www.festo.com/automotive
Green light for flexible production!
As different models, types and variants are produced on a single line, more vehicle models, more part variants and more efficiency are needed. Multi-car production lines require highly flexible and adaptive automation.

Efficient right from the start: sizing software
Exploit potential energy savings and avoid oversizing during the system design phase. Our software tools for precisely matched electric and pneumatic drive systems can accelerate your return on investment.

Reliable? Without a doubt!
Festo facilitates production processes worldwide, be it with safe handling of sheet metal components in the press shop or through innovative solutions in the body shop – with matching products in accordance with EC Machinery Directive DIN EN ISO 13849-1 and support.

Save energy!
Optimise energy consumption and determine potential compressed air savings for your system with Festo’s Energy Saving Services. You can reduce your costs by up to 60% in this way – even after commissioning.

Your advantage

Knowing up-front what happens next: condition monitoring
Ever increasing cost pressure demands shorter cycle times and greater system availability – as well as optimised energy efficiency. System monitoring and preventive maintenance are our way of dealing with these challenges.

Working safely and simply
Work will be different in the future than it is today. Intuitive operation and the ergonomic functionality of tools are changing manual tasks and make them simpler, safer and less strenuous. In on the action: innovative tools from Festo.
Press shop

**Vacuum generator OVEM**
Condition monitoring increases process reliability and prevents downtime. The OVEM monitors the selected evacuation and ejection times of each cycle.

**Suction cup ESV**
Adapted for the automotive industry: either as a complete, fully assembled suction gripper or as a pure suction cup for mounting and combining with an extensive range of accessories.

**Standard cylinder DSBC/DSBG to ISO 15552**
Intelligent cushioning and reduced set-up times with self-adjusting PPS end-position cushioning. Simple installation, no readjustment required, optimised cushioning – ideal for the press shop. Type DSBG with tie rods.

**Standard cylinder DSNU to ISO 6432**
Quick to react thanks to low break-away force, good running performance and a long service life. And saves time: DSNU with self-adjusting PPS cushioning.

Body shop

**Hinge cylinder DW**
For harsh environments such as welding processes in the body shop: clamping cylinder DW. Ideal for tough applications thanks to a swivel bearing on the bearing cap and the piston rod.

**Toothed belt and spindle axes EGC/EGC-HD**
EGC is the range of heavy-duty electric axes with numerous variants. Perfectly suited to the mechatronic multi-axis modular system for 2D and 3D handling systems.

**Valve terminal VTSA**
High data transmission rate, e.g. for real-time critical IO data. Safety functions to ISO 13849-1. Safety functions include venting of system parts and reversing.

**Tubing-fitting combination PUN-V0-C/NPQH**
Ideal and safe in the vicinity of welding spatter thanks to a tubing wall thickness of 2 mm for all diameters.

**Painting systems**

**Proportional pressure regulator VPPM**
Reliable, precise control with 3 selectable presets by simply pressing a button. The robust multi-sensor regulator with integrated sensors and multi-stage control circuit ensures excellent process reliability.

**Flow sensor SFAM-90**
Even greater flow ranges with unidirectional fluid flow. Quick installation via prism clamping technology, reliable operation thanks to high-luminosity LED display.

**MS series service units**
The integral concept provides application-specific solutions for your compressed air preparation requirements, for example with freely combinable function modules, size mixing and flow sensors.

**Valve terminal CPX-MPA**
Increased system availability, enhanced productivity, more process reliability thanks to integration of diagnostics and condition monitoring into the valve terminal CPX-MPA.
Flawless painting of car bodies.

Accurate gripping and transport of pressed parts.

Deliver top quality at a competitive price.

Accurate securing and precision welding.

Precise machining and assembly of engine and transmission parts.

Flawless painting of car bodies.

All assembly steps performed reliably.
Tier 1 suppliers

**Standard cylinder ADN with PPS cushioning**
Self-adjusting PPS cushioning significantly reduces external effects and negative influences on the machine or system such as impacts and shock.

**Electric cylinder EPCO**
Optimised Motion Series: fully assembled system including drive, permanently mounted stepper motor, controller for servo-mode operation and cables. Always optimally matched with 2 operating modes: servo-mode or inexpensive stepper mode.

**Planar surface gantry EXCM-10/-30**
Extremely small with maximum coverage of the rectangular working space. For payloads of up to 3 kg, scalable stroke along the X and Y axes. Can be quickly and easily integrated into machines.

**Control cabinets – ready-to-install solutions**
With pneumatic and/or electrical equipment. Control cabinets from a single source protect all pneumatic, electrical and electronic system components.

Engine and transmission production

**Air gap sensor SOPA**
Light, compact and extremely precise in the µm range. Controller module, compressed air regulation, measurement air switch-off and air jet function, up to 4 measuring modules, multi-colour LCD.

**Stopper cylinder DFST**
For gentle stopping without impact or noise: high performance stopper cylinder DFST. With high energy absorption for optimised cycle times. Sturdy design for a long service life.

**Pneumatic mini-slide DGSL**
8 sizes, stroke lengths up to 200 mm, 3 different end stops, highly precise, high load bearing capacity, easy to install.

**Linear drives DGC**
Precise, high load bearing capacity, good guide performance and space-saving – thanks to short installation length relative to stroke. Loads and devices can be directly mounted on the slide. DGC-K with internal guide.

**Final assembly**

**Parallel gripper HGPT-B**
Extremely powerful – up to 7 kN. A sturdy and precise kinematic system with T-slot guide for the gripping fingers ensures maximum torque absorption and a long service life.

**Handling systems**
Whether for small or big, light or heavy loads, our gantry systems are configured according to your requirements and solve any handling task, e.g. for automated parts feeding in final assembly.

**Servo-pneumatic positioning module CMAX for CPX terminals**
Free positioning with servopneumatics: the CMAX module on valve terminals controls linear or rotary pneumatic drives.

**Position transmitter SMAT-8M**
The first position transmitter designed as a proximity sensor. Sensing range up to 40 mm depending on the drive.
Provided consistently: comprehensive support

Festo’s service and support philosophy is based on constant analysis of the value chains of different types of customers. Festo has built on this to develop a sophisticated portfolio that supports you along your entire value chain.

**Engineering**
- Consulting
- Design tools
- Electronic catalogue

**Procurement/logistics**
- Procurement/logistics
- Festo online shop
- 24-hour delivery service
- Logistics optimisation service
- PrePack

**Installation and commissioning**
- Ready-to-install solutions
- Commissioning of axis systems
- Compressed air consumption analysis

**Operation**
- Energy Saving Services
- Modular service contracts
- Compressed air quality analysis
- Replacement parts catalogue/repair service
Right of way for the automotive industry
The automotive industry has always been a driver when it comes to developing new, more efficient manufacturing concepts. Festo provides support, especially when it comes to making automation more intelligent, for example with condition monitoring and our Energy Saving Services.

We are the engineers of productivity
There are four outstanding characteristics with which we successfully implement your automation tasks and provide you with increased productivity: security, efficiency, simplicity and competency. These make us what we are for you: engineers of productivity.