



Carl Zeiss Fixture Systems GmbH
Global solutions provider for quality
inspection and testing equipment



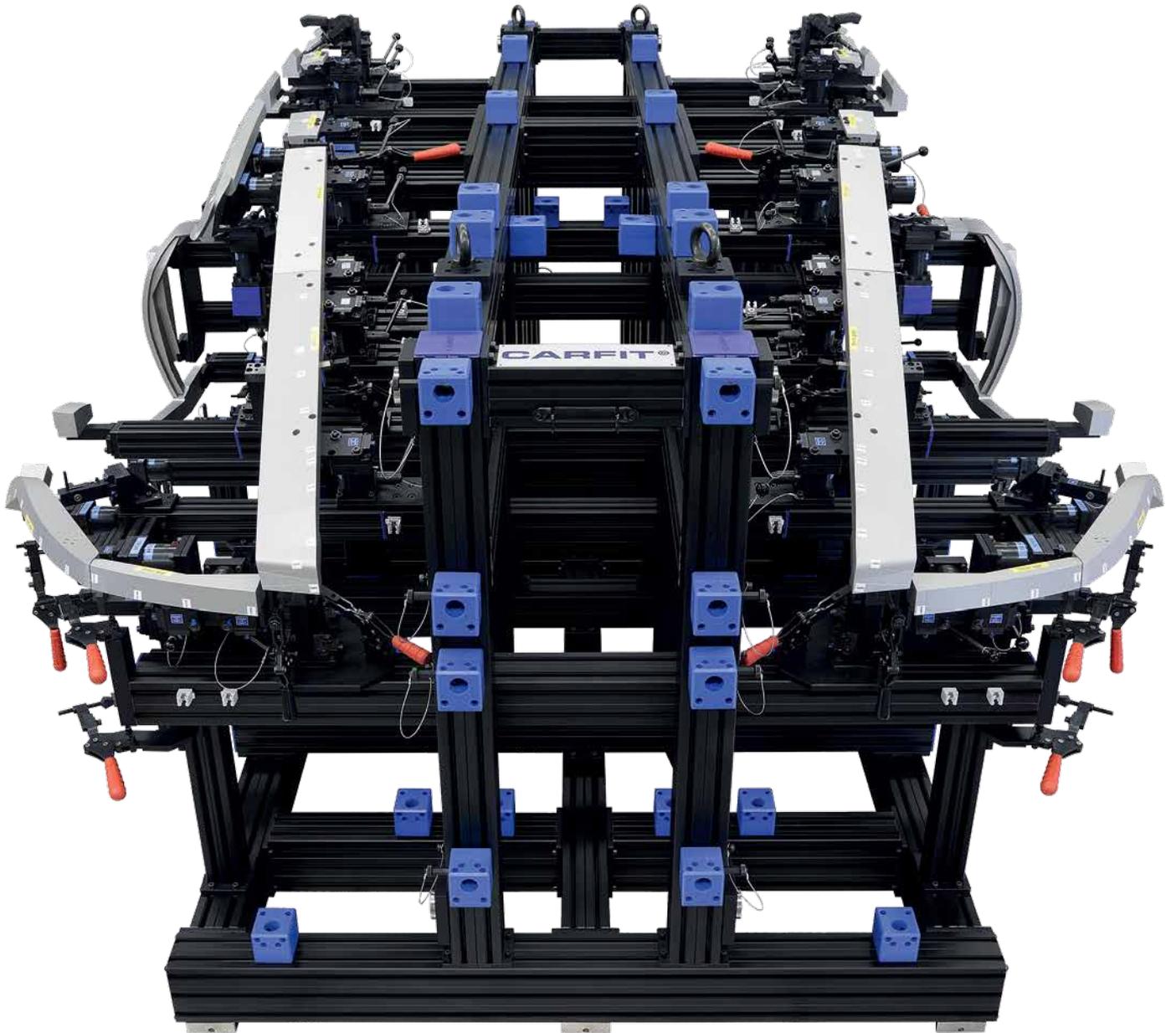
We make it visible.

The moment a creative team turns a vision into a solution.
This is the moment we work for.



// MEASURING TECHNOLOGY
MADE BY ZEISS





Innovative testing equipment for the automotive industry



With its excellent references for all vehicle components and all process requirements, Carl Zeiss Fixture Systems is the engineering and manufacturing specialist for quality inspection in the automobile and aerospace industries.

Global OEMs and system suppliers can improve their testing processes and results with our clamping, testing and matching equipment based on the highly functional CARFIT® system architecture.

Our clients trust our expertise and our years of experience as a global systems supplier. As a development and project partner for inspection technology, we make innovative contributions to the success of leading car makers. Carl Zeiss Fixture Systems stands for new dimensions in quality, profitability and technical functionality in equipment engineering.





Customer closeness through internationalization and localization

In conjunction with Carl Zeiss Industrial Metrology, we have production and engineering capacities in key automobile manufacturing countries such as the USA, India, Brazil and Mexico, which enable our customers to obtain the same high quality testing technology wherever they may be.

A prime example is the Chinese market where Carl Zeiss Fixture Systems has been providing local customers with the CARFIT® systems and CAD designs for tailored turnkey solutions from its own more than 4000 m² factory since 2012.



Global inspection expertise for our customers

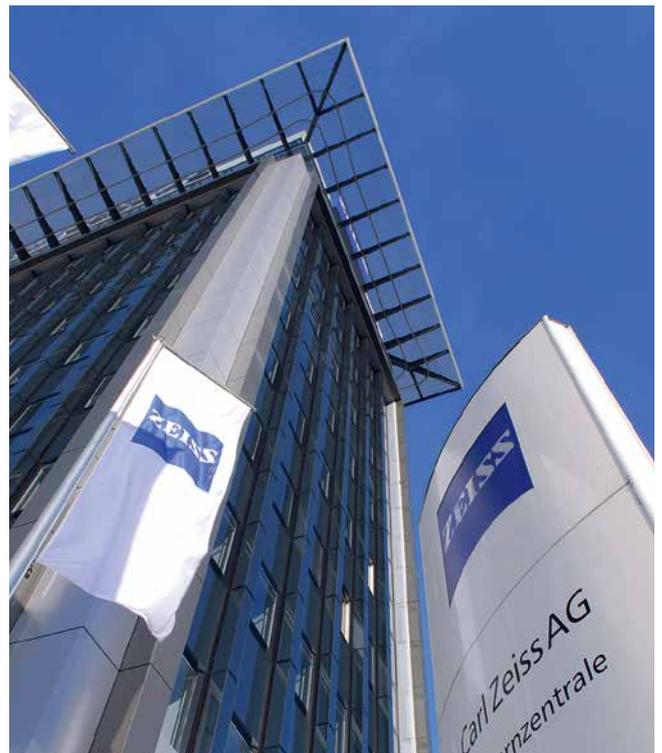
Our integration into the global activities of Carl Zeiss Industrial Metrology with its sales and service network in more than 30 countries, as well as partner organizations in more than 50 nations, enables us to provide localized solutions and support.

As an international partner to our globally networked clients, Carl Zeiss Fixture Systems is therefore well positioned to deliver cross-site, corporate solutions and services for quality inspection. The strengths of a major technology enterprise give our customers peace of mind knowing that their projects will be properly and professionally completed regardless of their size.



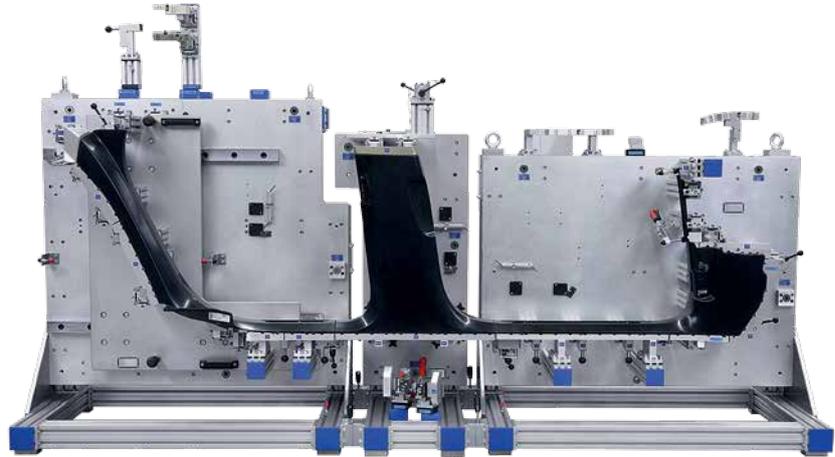
The promise of the ZEISS brand

As a subsidiary of Carl Zeiss Industrial Metrology, Carl Zeiss Fixture Systems, formerly known as Junker & Partner, is a member of the ZEISS global brand, which is synonymous with outstanding performance, reliability and quality the world over.



CARFIT® fixture system

The standard for all requirements

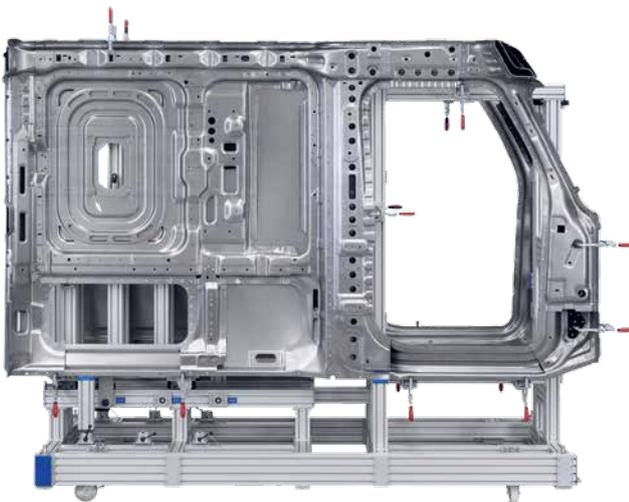


With its modular and standardized system architecture, our CARFIT® line of fixtures sets the pace in inspection technology. Thanks to its flexibility, affordability and optimal adaptability, the universal fixture system is the right choice for all applications in development, tool manufacture and prototype construction, as well as volume production.

Compatible designs and an extraordinary variety of standardized components provide the foundation for extreme flexibility, thus ensuring that all types of fixtures can be quickly and economically manufactured with a great deal of standardization.

The CAD library of all CARFIT® components supports the fast design and production of fixtures.

CARFIT® is known for its unique connecting, fastening and clamping technology, which ensures a high degree of precision, repeatability and fast part change-out. The system features ease of operation, minimal setup and modification costs, excellent stability and rigidity, as well as good accessibility to the measuring points and precise interaction with measuring machines.



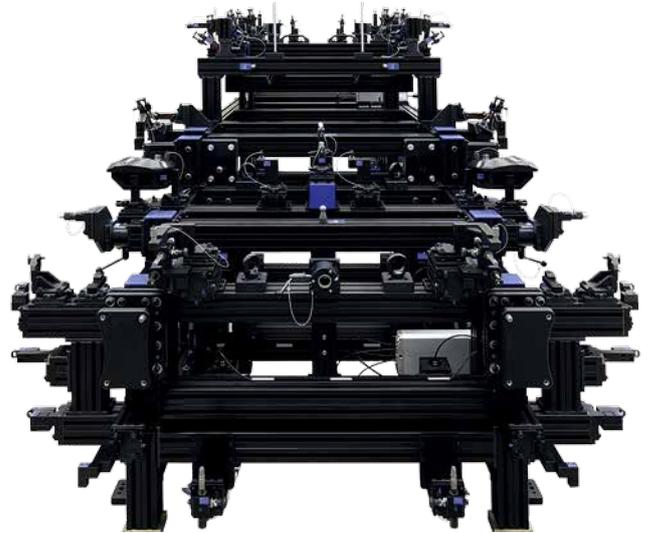
Standardization delivers cost benefits and enables the use of the same proven technology around the world without compromising quality and precision – with the added benefit of short delivery times due to large stocks at the production and service locations.

Customized fixtures

The flexibility of the standardized CARFIT® system enables the manufacture of simple part fixtures up to complex testing and matching equipment. The latest production technologies, as well as our employees' customer and part-specific process knowledge ensure well-engineered customized solutions.

The multifunctional capabilities of CARFIT® clamping systems saves time, money and resources throughout the customer's inspection process. Furthermore, part and process-related modifications and extensions can be quickly and easily implemented at any time.

Our outstanding project management skills deliver efficient coordination and reliably delivery schedules.

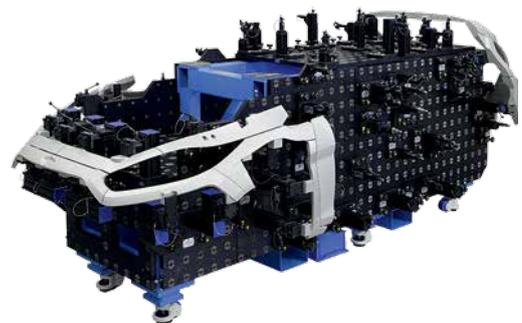
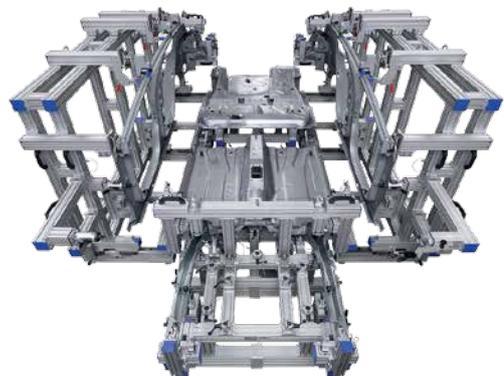


It's just so flexible: CARFIT® matching technology

Carl Zeiss Fixture Systems has years of experience and expertise in the manufacture of matching equipment. With its standardized system design, the CARFIT® system is ideal for the construction of matching equipment.

The high level of standardization and efficient standard solutions such as matching equipment screws, quick-change technology and guide systems enables perfect integration of customer requirements.

Additional quality features include a stable design, outstanding accessibility, multifunctional standard components and absolute repeatability.



Modular system for flexible customization



CARFIT® kit systems are designed to enable the customized manufacture of tailored clamping devices. They support a wide range of clamping requirements – from mechanically processed small parts up to large car body components. Standard component sets with magnetic fixation and kits to fix rotating and rotationally symmetric parts are available. CARFIT® universal clamping units are offered in sets to variably mount parts in any location.

The systems are available as a low-priced base version or with additional parts and multifunctional setup elements for a wider range of applications. Individually designed kits are also available for customized jobs.

All CARFIT® standard components are modular, compatible with each other and can be delivered on short notice. The kits are multifunctional, reusable and expandable. Flexible configurations are supported through setup instructions and an electronic catalog.



The CARFIT® system

CARFIT® CMB



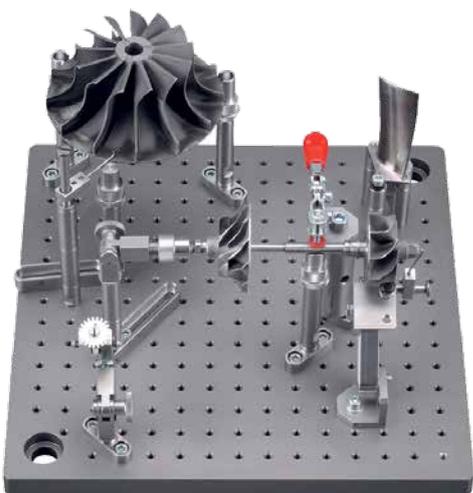
Kit with hole grid plate

CARFIT® CMP



Kit with profile design

CARFIT® CMK



Kit for small parts

CARFIT® CME



Universal clamping unit

CARFIT® CMF

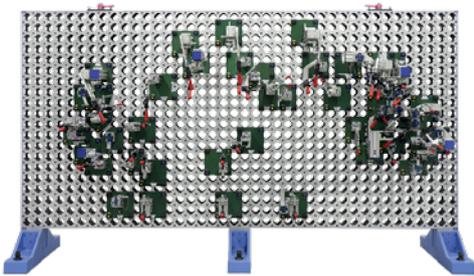
For fixturing devices and testing equipment with a framework design



The CMF line is used for the reproducible clamping of parts and assemblies. The basic design of clamping equipment is comprised of the CARFIT® profile system, which was specially developed for the manufacture of measuring and inspection equipment, and standard modules for fixturing and clamping parts or workpieces. Thanks to the high degree of variability, this system can be used for prototype measuring equipment up to serial testing equipment.

CARFIT® CMS

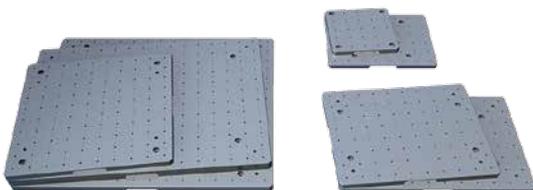
Support and clamping system – the flexible, space-saving wonder



The CMS line is primarily used where many different parts are measured and space for storing equipment with a framework design is at a premium. The design is based on a hole grid plate for the clamping of changing part-specific supports. This line has proven its value in series measuring fixtures and in prototypes.

CARFIT® CMG

Versatile hole grid plate system



The CMG line is comprised of base plates featuring variable dimensions with modified grids. They provide the foundation for the clamping devices of the CMS line and modular systems. They are available in steel or aluminum for fixtures in vehicle positions and vertical matching equipment and for right-left fixtures with two-sided hole grids in standardized configurations.

CARFIT® CMX

The line for matching equipment



As a result of its modular design and in-house standard components, the CMY line is the affordable, standardized system for the manufacture of matching equipment (interior, exterior and joining).

CARFIT® CML

The CARFIT® hole grid profile system



The CML line is compatible with all other lines and is based on hole grid profiles. Featuring a choice of three cross-sections, this achieves almost 90% standardization while delivering extraordinary flexibility. Infused with all the benefits of CARFIT®, the CML grid profiles are also fully compatible with other hole grid profile systems.

The CML joining technology enables simple, fast assemblies with extreme rigidity of the design. Another innovative feature is the ability to adapt the setup elements without requiring processing of the profile front.

CARFIT® CMO

The system for optical measurements



The CARFIT® CMO line is compatible with all other lines and standard components, making it ideal for the manufacture of scanning fixtures. Octagonal sections enable the non-contact measurement of parts from different perspectives.

The parts being inspected can be mounted in any position and also rotated 360 degrees so that all areas of the parts can be properly captured. Optical reference marks are used to assembly 3D coordinate models. Quick-change systems and top ends for part acquisition support the shortened inspection times of automated measuring runs.

System partner for professional total solutions

One-stop provider of engineering services

The full-service offering from Carl Zeiss Fixture Systems covers the drafting of fixing, clamping and measuring concepts; designing test equipment and processes; and designing and assembling CARFIT® system equipment for prototype, pre-series and serial parts.

Furthermore, users also have access to our expertise, thus helping them measure and analyze prototypes, and transfer the knowledge gained in the prototype phase to the production of serial inspection equipment.

Our one-stop services also include contract programming and the development of part-specific measuring programs in cooperation with Carl Zeiss IMT.



We offer holistic, project-based support and knowledge transfer. Our wide range of services optimizes costs and improves inspection processes. Throughout the process chain, customers benefit from all CARFIT® system features and from our leading expertise.

Management of entire quality inspection projects

As a development partner to the automotive industry, we are involved in the design of new models and the product optimization process up to the start of volume production. Our two decades of project expertise give us an unparalleled understanding of the objectives, processes and products of our customers.

Our development expertise and reliable project management ensure personnel, time and monetary savings, as well as successful startup and customized aftercare.



Global turnkey solutions

Carl Zeiss Fixture Systems provides global implementation of inspection jobs. We can guarantee identical standards the world over and can organize the transfer of pilot projects to other locations as a part of group wide quality assurance strategies. This includes integrating suppliers in the process, if necessary.

As a system partner with an international footprint, we already play a key role in the globalization of advanced inspection solutions. We achieve considerable cost and process benefits with our "develop and optimize locally – ensuring global implementation and support" philosophy.



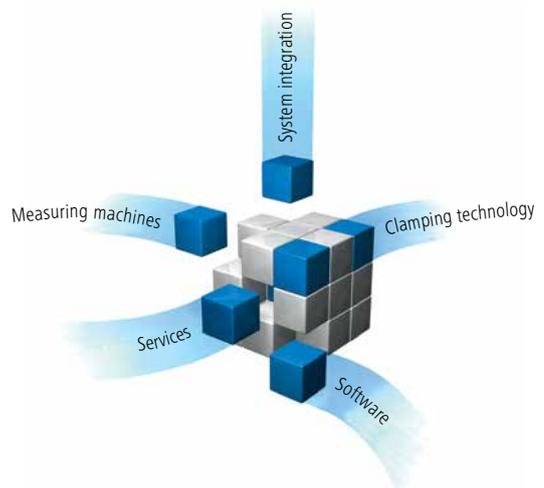
Solutions provider with Carl Zeiss IMT

The seamless integration into the Carl Zeiss Industrial Metrology portfolio delivers comprehensive total solutions for quality inspection in car body technology.

Customers receive a tailored total system comprised of turnkey solutions, perfectly harmonized clamping equipment and integrated service close to the customer anywhere in the world.

Comprehensive inspection planning and data concepts – from measurement point planning in the CAD model up to measurement programming and customized documentation – result in high cost and time savings, as well as optimized processes during product generation.

Additional benefits for customers include transparency and investment security, overall delegation of support and coordination, professional handling via a single contact and manpower support when capacity bottlenecks arise.



Carl Zeiss

Fixture Systems GmbH
Auf Rodert 6
66636 Tholey
Germany

Phone: +49 (0) 6853/ 5012-0
Fax: +49 (0) 6853/ 5012-31

Email: carfit.metrology.de@zeiss.com
www.zeiss.de/carfit