

Quick, Reliable and Cost-Effective:

ZEISS CARFIT lite

The simple fixture system for small to mid-sized parts



ZEISS CARFIT lite

Optical metrology makes it possible to perform quality inspections in next to no time, which is why companies continue to purchase optical measuring systems. With ZEISS CARFIT lite, ZEISS is responding to a request received from many customers for a straightforward and efficient component fixture system well-suited for optical measurements.

Thanks to its simplified and standardized modular system architecture, ZEISS CARFIT lite makes it possible to quickly assemble customized fixtures for small to mid-sized parts when performing optical inspections.

With the development of this solution, which has already been tested by large automotive manufacturers, ZEISS is expanding its portfolio by adding a fixture system that enables significant cost savings.

Optimized connecting elements reduce expenses

With ZEISS CARFIT lite, users can cut the time they spend assembling fixture systems in half. This greater speed is then reflected in both lower costs and shorter delivery times. Special connection solutions enable increased efficiency, making operators' work easier and speeding up fixture assembly.

Standardization for multiple uses

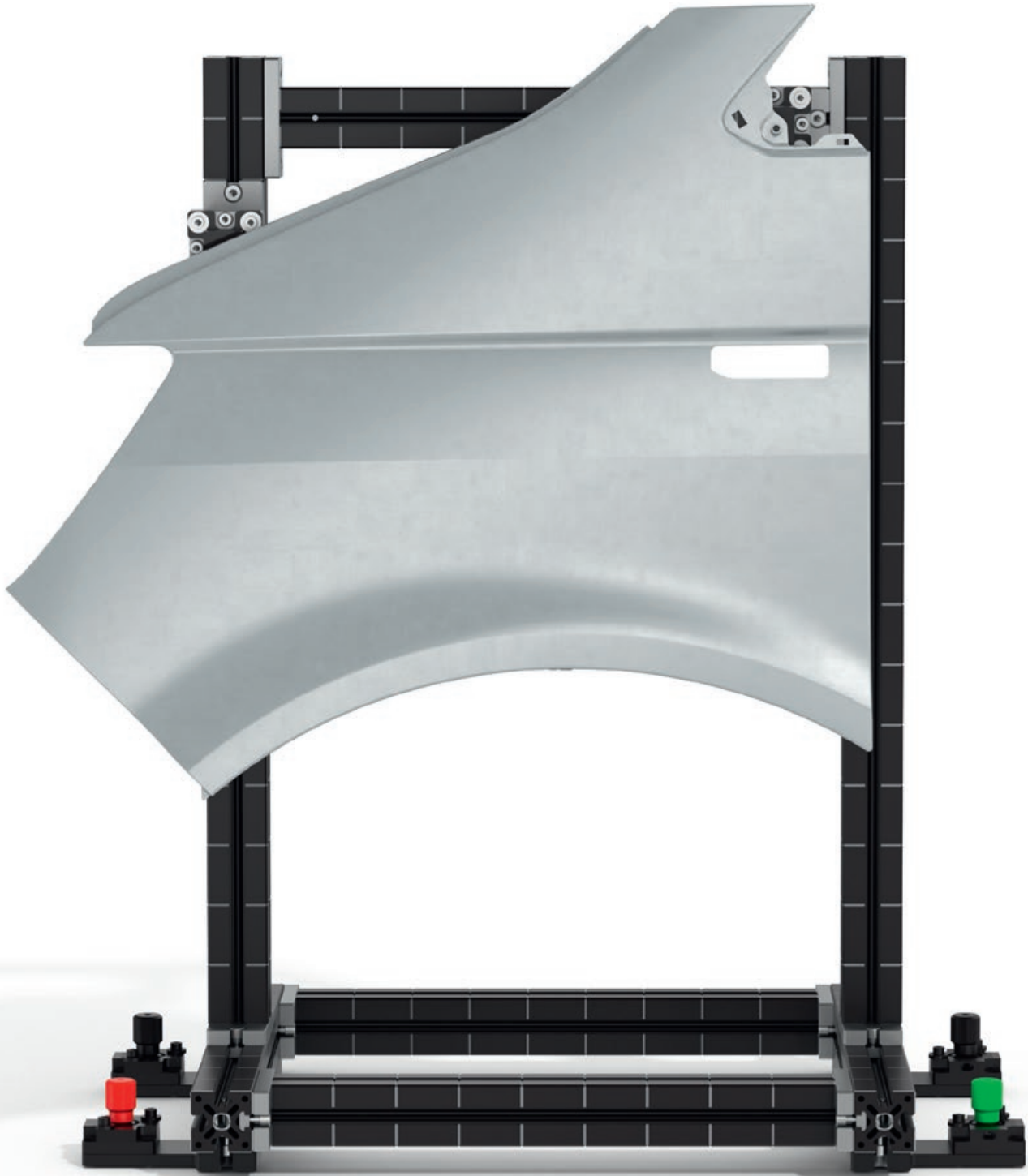
Thanks to the modular, standardized system architecture, elements that have already been assembled can be reused without any difficulty. This retooling is not only environmentally friendly but also lowers costs. Moreover, ZEISS CARFIT lite is compatible with other ZEISS systems so that the customer can combine new components with old ones.

Fewer parts means lower costs

There is no need for complex measuring fixtures when performing optical measurements. Instead, a simple setup ensures the components remain in place. With ZEISS CARFIT lite, it is possible to construct this fixture system from just a few components. Since an external adjustment device has been developed for this system, there is no longer any need to add 3D elements at each clamping point to accommodate the deviations that occur when setting up fixtures. This ensures the necessary precision of plus/minus 0.05 mm.

The benefits at a glance:

- Designed for optical measuring technology
- 30 percent cheaper than standard workpiece fixtures
- Noticeably faster delivery times
- Suitable for at-line and offline measurements
- Can be reused multiple times



Economical and sustainable: CARFIT lite fixture system for a fender

ZEISS CARFIT lite

The simplified, straightforward ZEISS CARFIT lite system features all the benefits of the standard CARFIT offerings for creating fixture setups anywhere, anytime. No complex fixtures required.

ZEISS CARFIT lite - Technical data for the fixture system

Degree of standardization	100%, up to 95% can be retooled
Base	Continuous casting profile
Profile weight	3.43 kg / m
Number of system elements	30
Special features	2D element with an external adjustment device
Adjustment range	+/- 2.0 mm
Libraries available	Catia
Compatibility	universal
Profile dimensions	50 mm x 50 mm
Material	Al Mg Si 0.5 F 23
Parallelism of the profile surfaces	0.2 mm / 1000 mm length
Straightness and deformation tolerance	0.5 mm / m
Finish	Anodized aluminum

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