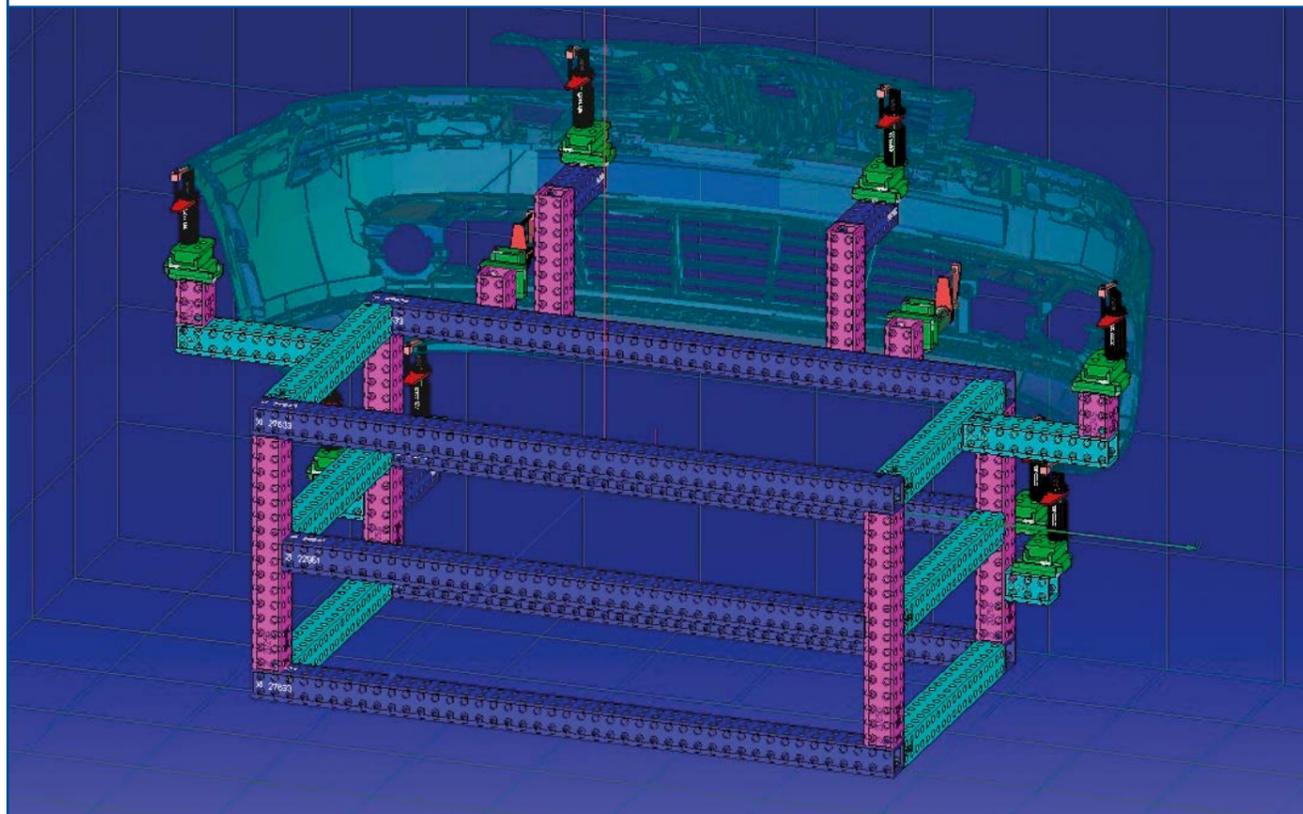


ALUFIX fast fixturing

Design

A frame was chosen as a basic structure to enable mounting of rear bumper simultaneously.

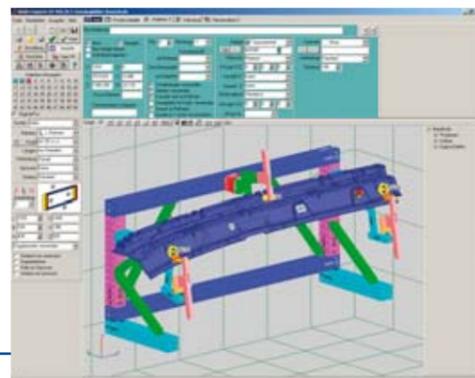
Basic frame and attachments are in Alufix 25 system size using bars 50x50mm.



This design took 3 hours using Witte Expert design software.

Basic requirements for fast design are:

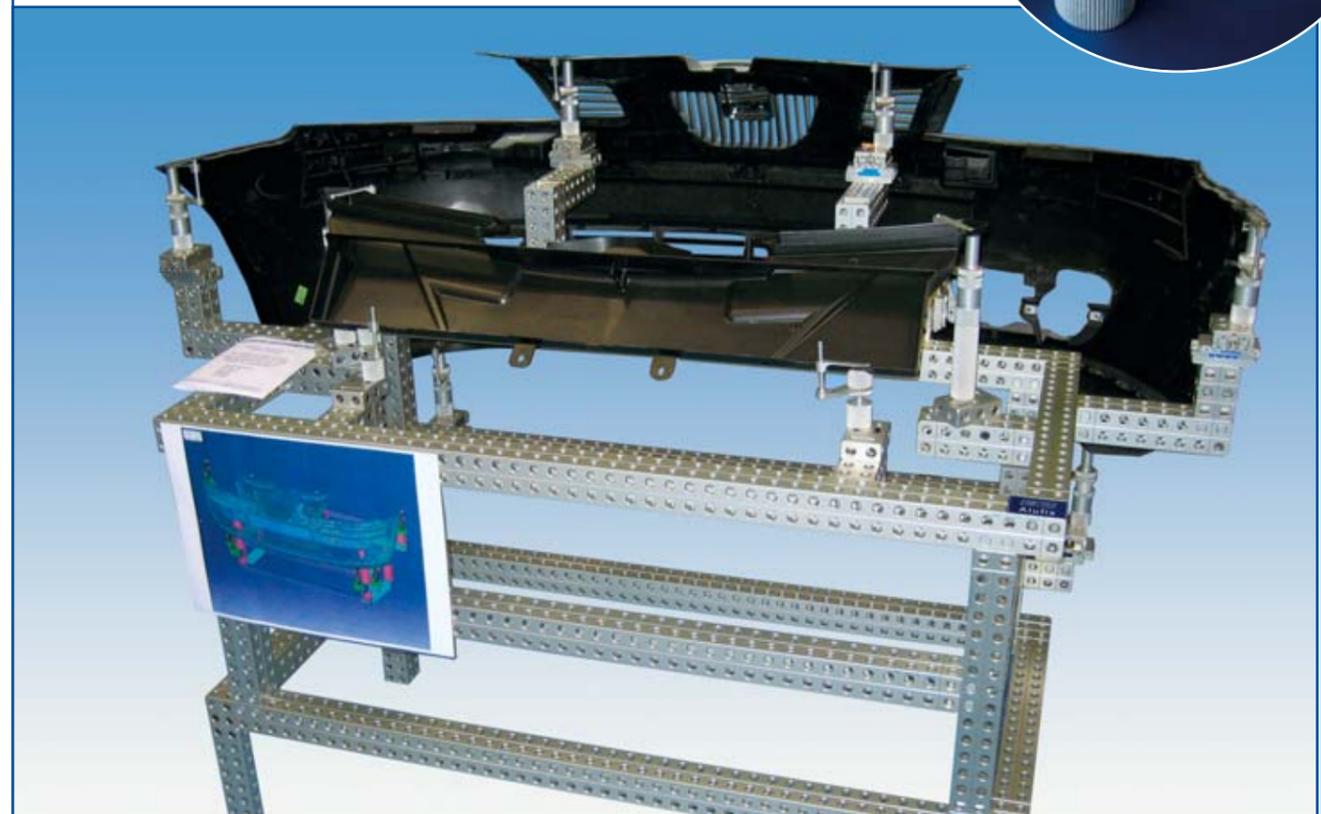
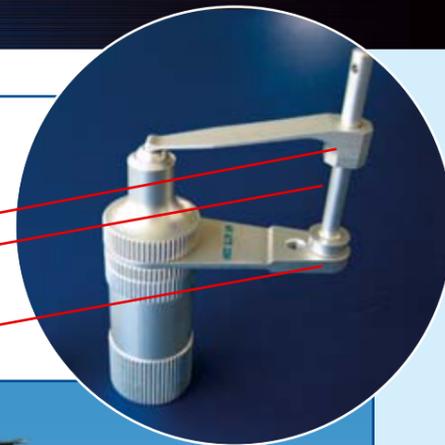
- Availability of part data
- Clear concept of points to be used for support
- Information on areas/points to be measured



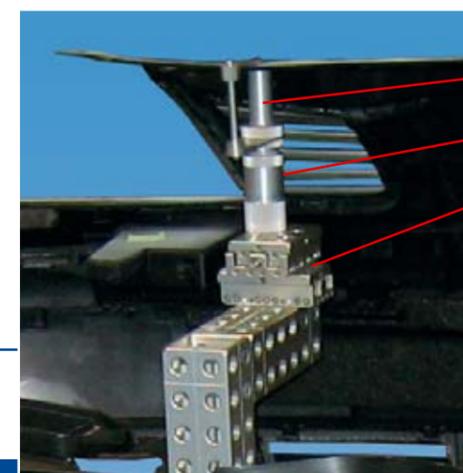
Elements

All Alufix elements are standard and 100% reusable.

Gentle clamping – no deformation or scratching using:
 Hold down springs
 Hold down studs mounted on
 Traverse holders



All contact points are adjustable in X,Y,Z



using combination of:

- Centres
- Screw Jack
- Cross slide

After correct adjustment contact point is secured in repeatable position.

ALUFIX fast fixturing

Finished Fixture

Design, manufacture, assembly and measuring of bumper fixture

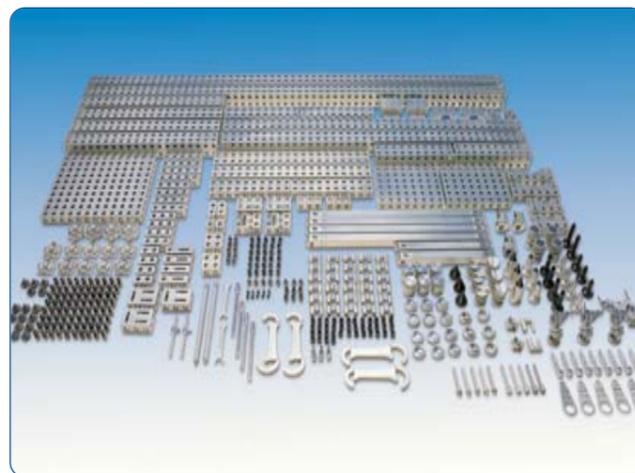
How does your method compare?

System	ALUFIX 25		Conventional	
	Time required	Cost in €	Time required	Cost in €
Design	5 hours	550,00 €		
Material	100% reusable	20.000,00 €		
Manufacturing	none, all parts are standard from stock	0,00 €		
Assembly	10 hours	600,00 €		
Alignment and measuring of 10 contact points	8 hours	920,00 €		
Amount	23 hours	22.070,00 €		

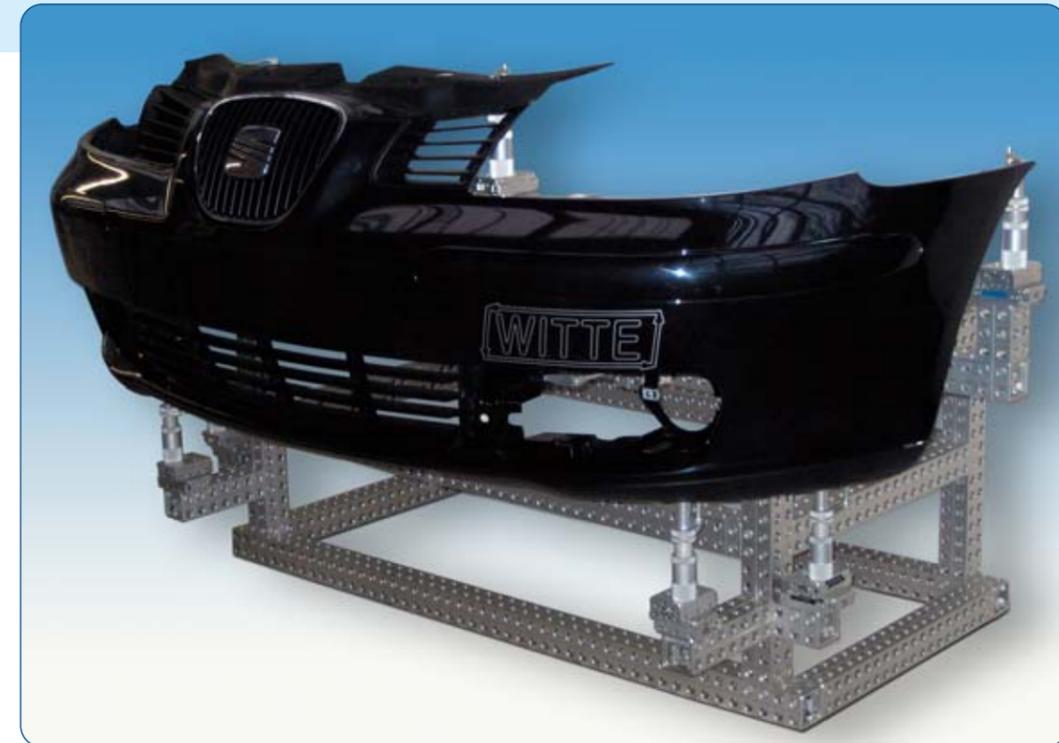
ALUFIX Modular Fixturing System

- ▶ High tensile 7075 aircraft aluminium
- ▶ Lightweight
- ▶ Corrosion-free
- ▶ Accurate
- ▶ Repeatable
- ▶ Low storage space
- ▶ Modular
- ▶ Fast
- ▶ Reusable
- ▶ Compatible system sizes

- Used for
- ▶ Measuring fixtures
 - ▶ Gauges
 - ▶ Loading stations
 - ▶ Assembly fixtures
 - ▶ Holding fixtures



ALUFIX fast fixturing



Assembly of complete fixture took one person 1 working day

100% reusable Alufix components are made of high-tensile aluminium.

Design and build fixtures in hours

How long does it take to make a reliable, accurate measuring fixture?

One, two, three weeks?

With Alufix Modular Fixturing, after basic training, design and assembly takes only hours!

