



sigma3D GmbH

sigma3D GmbH is an engineering service provider for mobile 3D coordinate measuring technology. Founded in 2001, the company employs 60 people at 2 locations in Germany (48712 Gescher and 55129 Mainz) and one location in China (Shenyang).

High technical, temporal and local flexibility distinguish us as a service provider. Measurement tasks in industry are becoming increasingly complex and demanding. With the appropriate range of measurement systems and technologies, software solutions and employee experience and know-how, these challenges can be solved.

Whether it is the periodic site inspection in large-scale aircraft component manufacturing that has to be accomplished in short time frames, the special measurement in Kourou at the European spaceport or the 3D scan of a model aircraft with subsequent reverse engineering, the right technology at the right time with the right employee at the right place are the key to successful projects in 3D metrology.

sigma3D has been developing software and delivering metrology solutions tailored to customer needs for several years. In aircraft structural assembly, 3D metrology has become increasingly important as a geometry-generating method in recent years. Permanently installed 3D sensors record the component positions and help to optimize the assembly process. sigma3D can provide the corresponding algorithms and supply the software.

Certificates

✓ ISO 9001:2015

Aviation

Aircraft engines / associated parts
Aircraft interior
Aircraft manufacturing
Avionics / Instruments
Electrical and electronical systems
Ground systems
Materials, parts and structures
Mechanical and hydraulic systems
Mission systems / sensorics
Services - design and engineering
Services - consulting / other
Services - operative
Services - training / education

Autonomous aviation (UAS)
Future mobility
Start-up support
Sustainable aviation



Space

Avionics / Instruments
Electrical and electronical systems
Ground systems
Materials, parts and structures
Rocket engines / associated parts
Satellites / probes
Services - design and engineering
Services - consulting / other
Services - operative
Services - training / education
Space infrastructure

Commercial space
Space mining
Start-up support