A Vibrant Corporation company in Germany

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

Vibrant works as a service provider for the global aerospace, power generation and automotive industries. Process Compensated Resonant Testing (PCRT) qualifies components based on their resonant behaviour in a nondestructive manner and only on the basis of their structural properties determined by material and process.

PCRT offers new possibilities for non-destructive qualification of series components. In lightweight construction, the life-saving safety reserves of conventional production will be reduced in future and the focus will be on the function of the component. Qualification and series testing of AM components - Comparison of FEM model and prototype (digital twin) - Process monitoring on the basis of qualified characteristic values (gold standard) - Correlation with the material properties - Correlation with known AM defects (LoF, keyhole, etc.) - No random sampling, 100% testing and cost reduction by eliminating other processes

Vor den Eichen 4 65604 Elz Hesse Germany ☑ vibrantndt.com



Small or medium-sized enterprise

Sectors



Others: Luftfahrt

Employees

10 up to 49

Turnover

Up to €2m

Funding

Main areas covered	PCRT testing technology, Measurement technology, Crack testing, Quality inspection, Digital twin	
Infrastructure		
Certifications	AS9100D, ISO9001:2015	
Keywords	PCRT, Process Compensated, Resonance Testing, Resnoance test	
Memberships	Fraunhofer Additive Alliance	

leichtbauatlas.de Page 1 of 4

A Vibrant Corporation company in Germany

Machine translation					
his organisation has been machine-translated based on data provided in German.					
	Research	Development	Manufacturing & Supply		
Offer					
Products					
Services & consulting Validation, Simulation, Others (PCRT as a service)	~	~	✓		
Field of technology					
Design & layout					
Functional integration					
Measuring and testing technology Component and part analysis, Materials analysis, Non-destructive analysis	~	✓	✓		
Modelling and simulation Structural mechanics, Materials, Reliability validation	~	~	✓		
Plant construction & automation Automation technology, Handling technology, Robotics		✓	~		

leichtbauatlas.de Page 2 of 4

A Vibrant Corporation company in Germany

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	N Development	1anufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

leichtbauatlas.de Page 3 of 4

A Vibrant Corporation company in Germany

Contacts	
Machine translation This organisation has been machine-transla	ated based on data provided in German.
Mr Dipl. Ing. Thomas Köhler	
Managing Director	Mr Fr. Vertrieb weltweit

leichtbauatlas.de Page 4 of 4