A Vibrant Corporation company in Germany

About this organisation

Machine translation

Vor den Eichen 4

☑ vibrantndt.com

65604 Elz

Hesse Germany

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 Vibrant

Organisation type Small or medium-sized enterprise

Sectors A X X 🛱 🖪 🚓 🖵 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

A Vibrant Corporation company in Germany

Overview of lightweighting expertise			
Machine translation			
This organisation has been machine-translated base	d on data provid	ded in German.	
	Research	N Development	Aanufacturing & Supply
Offer			
Products			
Services & consulting Validation, Simulation, Others (PCRT as a service)	\checkmark	~	\checkmark
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology Component and part analysis, Materials analysis, Non-destructive analysis	\checkmark	\checkmark	\checkmark
Modelling and simulation Structural mechanics, Materials, Reliability validation	\checkmark	\checkmark	\checkmark
Plant construction & automation Automation technology, Handling technology, Robotics		\checkmark	\checkmark
Recycling technologies			

A Vibrant Corporation company in Germany

Machine translation			
his organisation has been machine-translated b	oased on data provic	led in German.	
	Research	Developmen	Manufacturin t & 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			

A Vibrant Corporation company in Germany

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