

About this organisation

Machine translation

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

SKM from northern Germany/Schwerin is a CAD/CAM/XR/IT system house and developer of the SKM-DCAM solution platform with technology modules for offline programming of additive & hybrid applications for CNC systems, robots, parallel kinematics & external additional axes. Networked in industry & research, the 40-MA team integrates current technologies with a focus on Industry 4.0, AI/ML, additive manufacturing as well as cloud & digital twin.

SKM DCAM technology modules relevant for lightweight construction are # DCAM-KSE for additive-hybrid plastic extrusion for a wide range of kinematic systems # DCAM-DED for direct energy deposition for WAAM (arc), LPA & LDA (laser) # DCAM-WAAM for additive-hybrid welding applications with arc for CNC & robots # DCAM-FRÄSEN integrated strategies (Module Works Integration) Single & Hybrid # DCAM-LMWT Laser multi-wire technology for simultaneous processing of multiple wires # DCAM-LPA Rib module with crossing topologies and variable track width # DCAM-MLS Micro laser sintering for extreme microstructures (layer thickness 5 μm) # DCAM-MMJ (multi-material jetting) for thermoplastic 3D printing of ceramics CAD/CAM function classes for INFILL, surface and contour strategies, point and rod nodes and intersection topologies, multi-material grading, simulation technologies & hybrid management are continuously being developed and flexibly integrated into individual customer system concepts

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Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

10 up to 49

Turnover

€2m - €10m

Funding



About this organisation

Main areas covered	CAD/CAM additive-generative hybrid, XR - Cyberphysical visualisation, CAE - Simulation & Optimisation, Cloud computing HPC
Infrastructure	IT virtualisation, cloud computing, CAD/CAM/CAE-SW + seminar centre, XR - Mobile Devices, HoloLens, Various 3D printers, Laboratory: Robotic & Measurement Technology
Certifications	ISO 9001, ATC Autodesk
Keywords	3D printing, 3D printing, CAD/CAM, WAAM, DED
Memberships	HansePhotonic e.V., Agent3D e.V., MN3D e.V., MARITIM 3D e.V., Open Factory Campus Schwerin e.V.

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Training, Engineering, HR services, Simulation, Technology transfer	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight construction concepts	✓	✓	
Functional integration Sensor technology	✓	✓	
<i>Measuring and testing technology</i>			
Modelling and simulation Optimisation, Processes	✓	✓	✓
Plant construction & automation Plant construction, Handling technology, Robotics	✓	✓	
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Electron beam melting, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)	✓	✓	✓
Coating (surface engineering) Plasma process, Powder coating	✓	✓	✓
<i>Fibre composite technology</i>			
<i>Forming</i>			
Joining Welding	✓	✓	✓
Material property alteration Mechanical treatment, Thermomechanical treatment, Heat treatment	✓	✓	✓
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Grinding, Cutting	✓	✓	✓
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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