

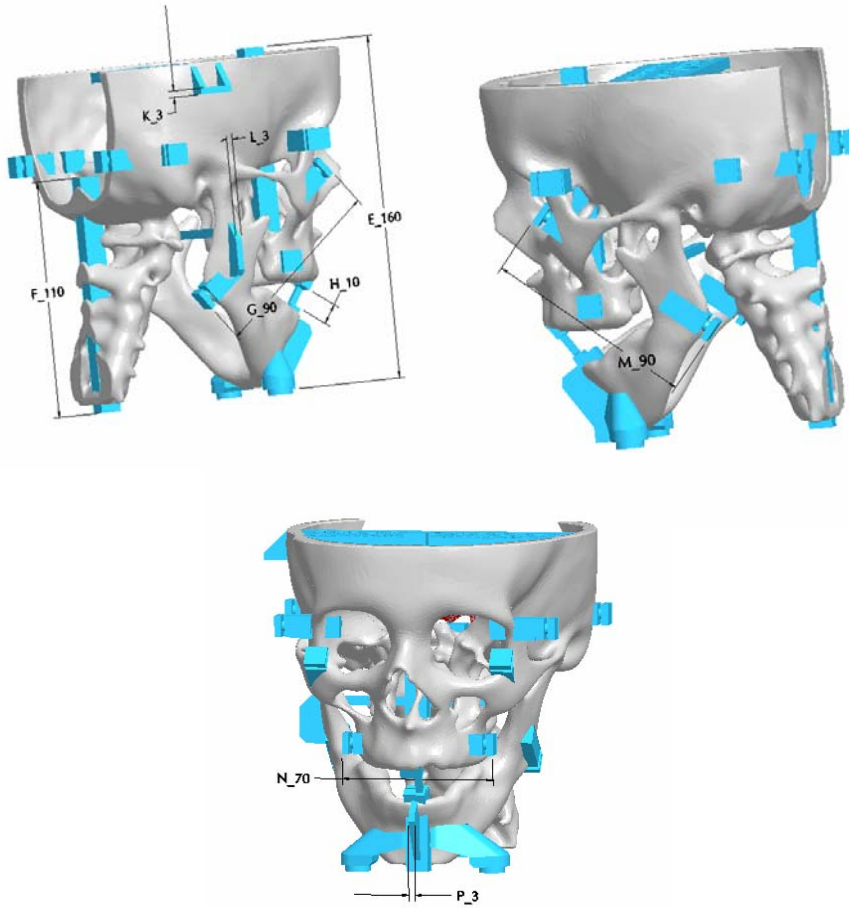


RM case study

Case name	RM Phantom Head for Anatomical Models in QM validation & further Examples for Anatomical Models		
Dimensions in mm (L x W x H)	150x150x160 mm		
Application	Medical Technology - Quality Management Validation Test-Design		
RM process	Stereolithography		
Software	Pro-E for construction & Standard RP/RM Software		
System	3D Systems Viper si ² Normal Resolution - Layer Thickness 0.15mm		
Material	FlexSL® SM-1500		
Lead time (hours/days)	n.a.		
Costs	on request		
Surface finish	Normal post-processing through stereolithography process		
Mechanical properties	<p>FlexSL® SM-1500 biocompatible SLA material</p> <p>Mechanical properties: Tensile (Young's) Modulus [MPa] - 1365 Tensile Strength at break [MPa] - 39 Flexural Modulus [MPa] - 1785 Flexural Strength [MPa] - 65 Elongation at break [%] - 6,2 Impact Strength, Izod notched [kJ/m²] - 3,99 Shore Hardness - 73 (Sh. D)</p> <p>Additional information, TDS, MSDS on www.3mat.de</p>		
Thermal properties	T _G glass transition temperature [°C] - 55		
Any additional info	<p>The FlexSL-SM-1500 material is a highly biocompatible stereolithographic material which can be used for medical technology applications.</p> <p>This case study represents a direct RM manufactured phantom anatomical head used for accuracy qualification and validation of the producing process in accordance with Quality Management validation tests for medical product applications (ISO 13485).</p>		
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Production of the Phantom Head for Anatomical Models

RM case study

Anatomical Models for (Pre-)Surgical Planning & Historical Reconstruction
– Examples:

