



Overview of technologies

	Laser sintering (SLS)	Stereolithography (SLA)	HSC Milling (High Speed Cutting)	Vacuum moulding	Low pressure moulding (RIM)
Design samples	○	●●	●●	○	
Functional models	●●	●	●●	●●	●●
Series parts	●●		●●	●	●●
Delivery time (in working days)	2–4	1–3	5–20	5–15	15–20
Quantities (ideal size)	1–100	1–10	1–100	1–50	50–1000
Material	PA/HST Elastomers TPU	Epoxy	Plastics Metals	PUR Silicone	PUR Epoxy
Advantages	<ul style="list-style-type: none"> • Mech. resilient parts • Latches, hinges • Temperature resistance up to 180 °C 	<ul style="list-style-type: none"> • One Day Service • Smooth surface • very good paintability 	<ul style="list-style-type: none"> • Any material possible • High dimensional accuracy • Up to 5-axis simultaneous 	<ul style="list-style-type: none"> • Materials with various properties • Coloured, transparent • 2-component parts 	<ul style="list-style-type: none"> • Good cost/benefit ratio for large parts
Disadvantages	<ul style="list-style-type: none"> • Wall thickness from 0.6 mm • Fine-grain surface 	<ul style="list-style-type: none"> • Support geometry required 	<ul style="list-style-type: none"> • Programme fees 	<ul style="list-style-type: none"> • Tool required 	<ul style="list-style-type: none"> • Tool required • Inclined mould necessary

○ suitable ● well suited ●● very well suited