

How could we support scaling your production – Your journey from prototype to high-volume production

NUMBER OF PARTS	MANUFACTURING TECHNOLOGY	DESIGN FREEDOM	VOLUME (#PARTS)	UPFRONT INVESTMENT (TOOL)	SPEED	SIZE PART	MATERIAL	
1-10	Functional prototyping and small series	Very high	Low	Very low	<1 week	Small – Medium	All, KyronMAX®	3D Printing (FDM or FFF) of a visual/ functional part
1-10	Functional prototyping and small series	Very high	Low	Very low	<2 week	Small – Medium	All, KyronMAX®	SPRINT (Soluble Printed Injection Tooling) is based on AddiFab's Freeform Injection Molding technology. It provides the flexibility of 3D printing (of the mold) with injection molding quality. It enables the production of small series parts that are 100% functional and can be scaled at low risk to high volume injection molding. Max size of the printed mold 96x54x150mm. Up to 4 molds can be combined to expand the build envelope.
1-100	Machining (CNC)	Moderate	Low – Medium	Low	2 weeks	Small – Medium	Limited by degree of fillers or very soft materials	Customization of plates, rods or near net shapes.
10-1000	Near net injection molding + Machining (CNC)	Moderate	Low – Medium	Medium	2 weeks	Small – Very large	Limited by degree of fillers or very soft materials	Cost effective way of production by combining injection molding of near net shape (NNS) in combination with machining for adding features and creating very tight tolerances.
100-10,000	Injection molding – Machined aluminum tool	Low - moderate	Low – Medium	Medium	4 – 6 weeks	Small – Very large	All, KyronMAX®	Conventional injection molding.
100-250,000	Injection molding – 3D printed metal insert in mother tool	Moderate	Medium – High	Medium	<6 weeks	Medium	All, KyronMAX®	Injection molding with a 3D printed metal insert. Max size is approx. 250x250x250 mm.
>10,000-1 Million	Injection molding – Hardened Steel tool	High	High	High	10 – 24 weeks	Low – Medium	All, KyronMAX®	Complete hardened tool with moving parts.