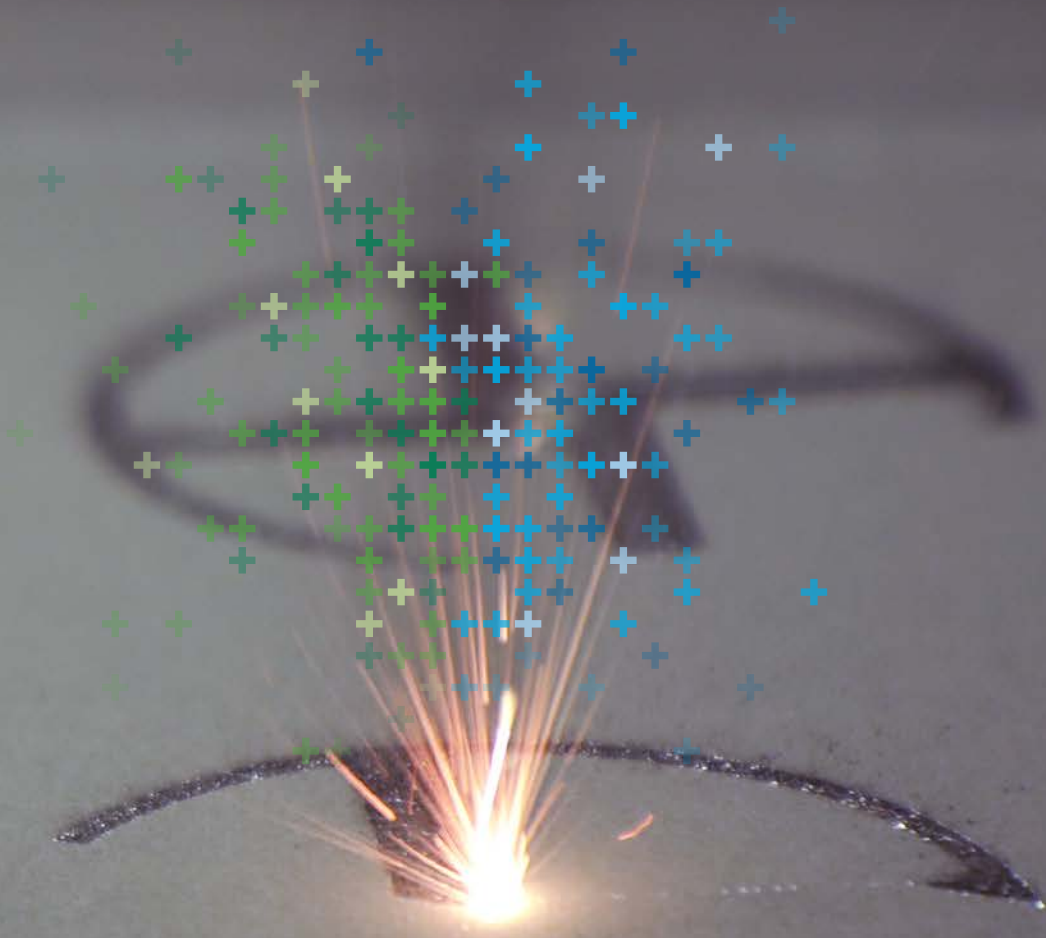
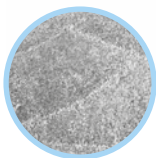


Additive Manufacturing

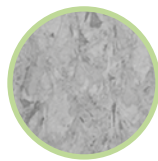
Metal powders



Material*	Characteristics**	Applications	Layer thickness	Availability***
Aluminum alloys				
LaserForm® AlSi10Mg	Very low density material Excellent strength High electrical conductivity High thermal conductivity Good corrosion resistance	Aerospace	30 µm	DMP Flex 350
		Automotive / Motorsport Lightweight engineering Hydraulics engineering	60 µm	DMP Factory 350 DMP Factory 500
LaserForm® AlSi7Mg0.6	Very low density material High strength & ductility Excellent electrical conductivity Excellent thermal conductivity Good corrosion resistance	Aerospace Automotive / Motorsport Lightweight engineering Hydraulics engineering	30 µm 60 µm	DMP Flex 350 DMP Factory 350
Cobalt-chrome alloys				
LaserForm® CoCr F75	High strength & ductility (even at elevated temp.) High heat & wear resistance High corrosion resistance Good polishing performance Excellent biocompatibility	Energy Aerospace Mold & Die Medical tools & devices Medical / dental implants & prostheses	30 µm 60 µm	DMP Flex 350 DMP Factory 350
Nickel alloys				
LaserForm® Ni718	Excellent strength & ductility (even at elevated temp.) Excellent fatigue & creep resistance at elevated temp. High corrosion resistance Excellent weldability	Chemical / Petrochemical Energy / Oil & Gas Marine Aerospace Cryogenics engineering	30 µm 60 µm	DMP Flex 350 DMP Factory 350 DMP Factory 500
		Chemical / Petrochemical Energy / Oil & Gas Marine Aerospace Cryogenics engineering	30 µm 60 µm	DMP Flex 350 DMP Factory 350
LaserForm® Ni625	High strength & ductility (even at elevated temp.) Excellent fatigue & creep resistance at elevated temp. Excellent corrosion resistance Excellent weldability	Chemical / Petrochemical Energy / Oil & Gas Marine Aerospace Cryogenics engineering	30 µm 60 µm	DMP Flex 350 DMP Factory 350
Alloy X (Certified parameters set is provided only)	Good strength & ductility (even at elevated temp.) Excellent fatigue & creep resistance at elevated temp. Excellent corrosion resistance Excellent weldability	Chemical / Petrochemical Energy / Oil & Gas Marine Aerospace Cryogenics engineering	60 µm	DMP Factory 500



Aluminum alloys
LaserForm® AlSi10Mg



Steels
Böhler AMPO M789



Material*	Characteristics**	Applications	Layer thickness	Availability***
Steels				
LaserForm® Maraging Steel	Excellent strength & hardness	Mold & Die	30 µm	DMP Flex 350
	High heat & wear resistance	High-strength & wear engineering	60 µm	DMP Factory 350
LaserForm® 316L	Good weldability & machinability			
	Excellent ductility	Chemical / Petrochemical	30 µm	DMP Flex 350
LaserForm® 17-4PH	Excellent corrosion resistance	Marine	60 µm	DMP Factory 350
	Good polishing performance	Food		
LaserForm® 17-4PH	High strength & ductility	Automotive / Motorsport	30 µm	DMP Flex 350
	Good wear resistance	Cryogenics engineering	60 µm	DMP Factory 350
Böhler AMPO M789 (Certified parameters set is provided only)	Excellent corrosion resistance	Chemical / Petrochemical	30 µm	DMP Flex 350
	Good weldability & machinability	Aerospace	60 µm	DMP Factory 350
Böhler AMPO M789 (Certified parameters set is provided only)	High strength & hardness	Mold & Die	30 µm	DMP Flex 350
	High heat & wear resistance	High-strength & wear engineering	60 µm	DMP Flex 350
Böhler AMPO M789 (Certified parameters set is provided only)	Excellent corrosion resistance	Medical tools & devices		
	Good weldability & machinability	Medical tools & devices		

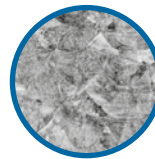
Titanium alloys

LaserForm® Ti Gr1	Low density material	Medical / dental implants & prostheses	30 µm	DMP Flex 350
	Excellent ductility		60 µm	DMP Factory 350
LaserForm® Ti Gr5	High corrosion resistance	Aerospace	30 µm	DMP Flex 350
	Excellent biocompatibility	Automotive / Motorsport	60 µm	DMP Factory 350
LaserForm® Ti Gr5	Low density material	Lightweight engineering	90 µm	DMP Factory 350
	High strength & ductility	Medical tools & devices		
LaserForm® Ti Gr23	High corrosion resistance	Medical / dental implants & prostheses		
	Excellent biocompatibility	Aerospace	30 µm	DMP Flex 350
LaserForm® Ti Gr23	Low density material	Automotive / Motorsport	60 µm	DMP Factory 350
	High strength & ductility	Lightweight engineering	90 µm	DMP Factory 350
LaserForm® Ti Gr23	High fatigue resistance	Medical tools & devices		
	High corrosion resistance	Medical / dental implants & prostheses		
LaserForm® Ti Gr23	Excellent biocompatibility			

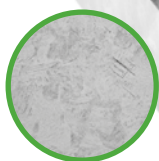
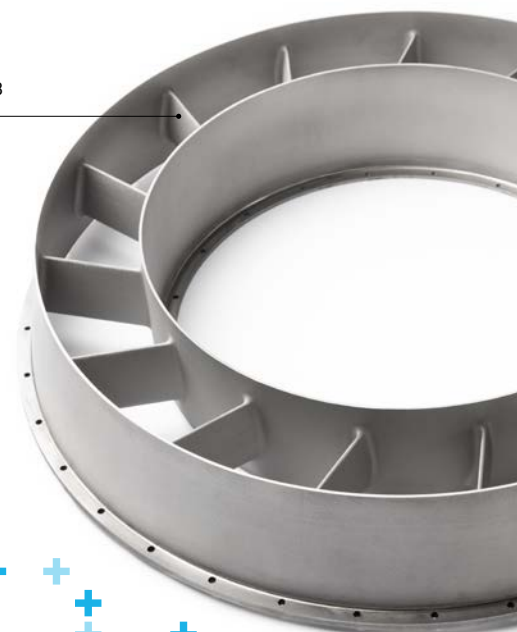
* LaserForm® parameters are developed by our partner 3D Systems

** Material datasheets are available on www.gfmsadditive.com

*** Layer thicknesses or machine availability may have been updated



Nickel alloys
LaserForm® Ni718



Titanium alloys
LaserForm® Ti Gr23



At a glance

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser, Additive Manufacturing, Spindle, Tooling and Automation solutions. A comprehensive package of Customer Services completes our proposition.

www.gfmsadditive.com

