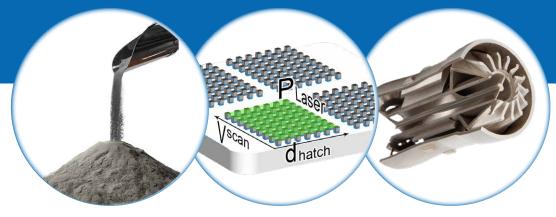


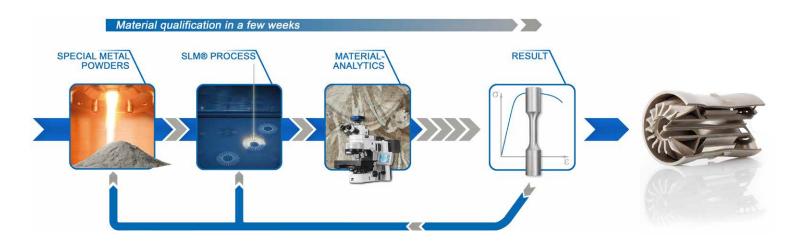


Material Qualification for Additive Manufacturing



Individual Fast Holistic

The in-house process chain at Rosswag enables holistic and rapid material qualification processes for additive manufacturing. Short qualification cycles from the atomization of individual alloys to metal powder, via parameter studies in the SLM® process, to the analysis of test specimens. You will get initial results within a few weeks.













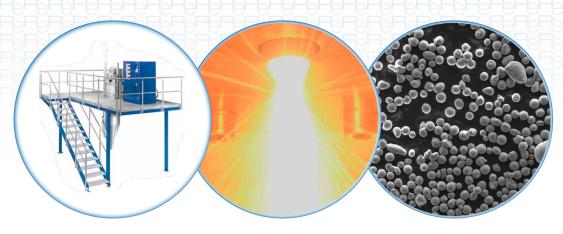




ALLE PROZESSE SEINER HAND







Metal Powder for Additive Manufacturing

Using the in-house atomization plant, individual metal powders can be produced in small quantities (up to approx. 50 kg) especially for

the use in additive manufacturing. After a first quality check, the particle size distribution will be adjusted by sieving and air classification.

Technical data

Atomization gas	Argon (up to 500 °C)
Particle size	+10 -150 μm
Melt temperature	up to 1750 °C
Crucible material	Al ₂ O ₃ / graphite
Crucible volume	~3 liters
Alloys	Fe, Ni, Cu, Sn, Co













Analytics at Rosswag

at Rosswag In our state-of-the-art materials laboratory, the metal powders and specimens from the parameter studies are fully analyzed. This allows even the smallest deviations in the alloy composition to be identified and the resulting material properties to be determined by microsection and tensile tests.