

Making our world more productive



# Precision Powder Formulation

For Your Innovative AM Applications



# Precision AM Metal Powders.

Metal AM is opening new frontiers in the possibilities of parts engineering. Today's AM parts are designed to be more efficient and dynamic than ever to solve the world's most demanding applications.

## Are your parts submitted to:

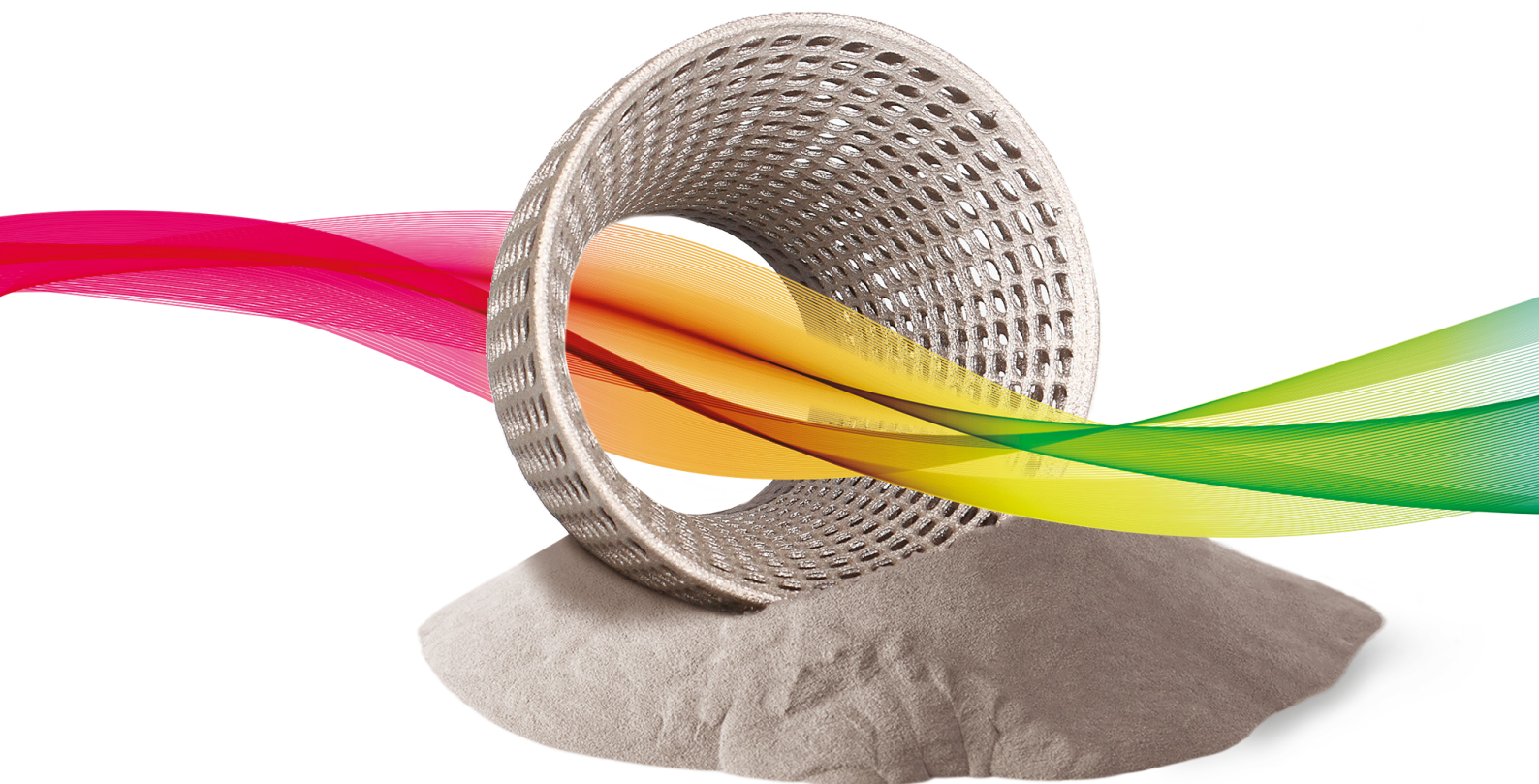
- Longer life cycles?
- Higher pressures?
- Extreme temperatures?

## Does your application require:

- Part consolidation?
- Higher density?
- Weight Reduction?

## Formulate a precision powder that's up to the task

With precision formulation, you'll know you have the right material for the task.





# How TRU2SPEC™ Works.

TRU2SPEC™ precision powder formulation, only from Linde AMT, enables you to create a custom AM metal powder that meets the exact specifications of your most demanding applications. No more guessing if an off-the-shelf powder will hit the spec and meet your requirements.

## PHASE 1

### Visual Formulation

Evaluate your custom powder before it's ever produced.

**Collect** application specifications:

- Operating environment
- Desired powder characteristics
- Part production method

**Develop** precision powder formulations

**Create** detailed powder profile and analysis:

- Chemistry profile
- Particle sizing
- Flowability measures
- Certifications specific to your requirements

## PHASE 2

### Powder Prototyping

Test powder performance in trial-sized batches

**Produce** small lots (as little as 5 kg) of powder for customer testing, verification and potential printing

**Refine** powder formulation based on trial results

**Conduct** quality assessments and create scale-up documentation

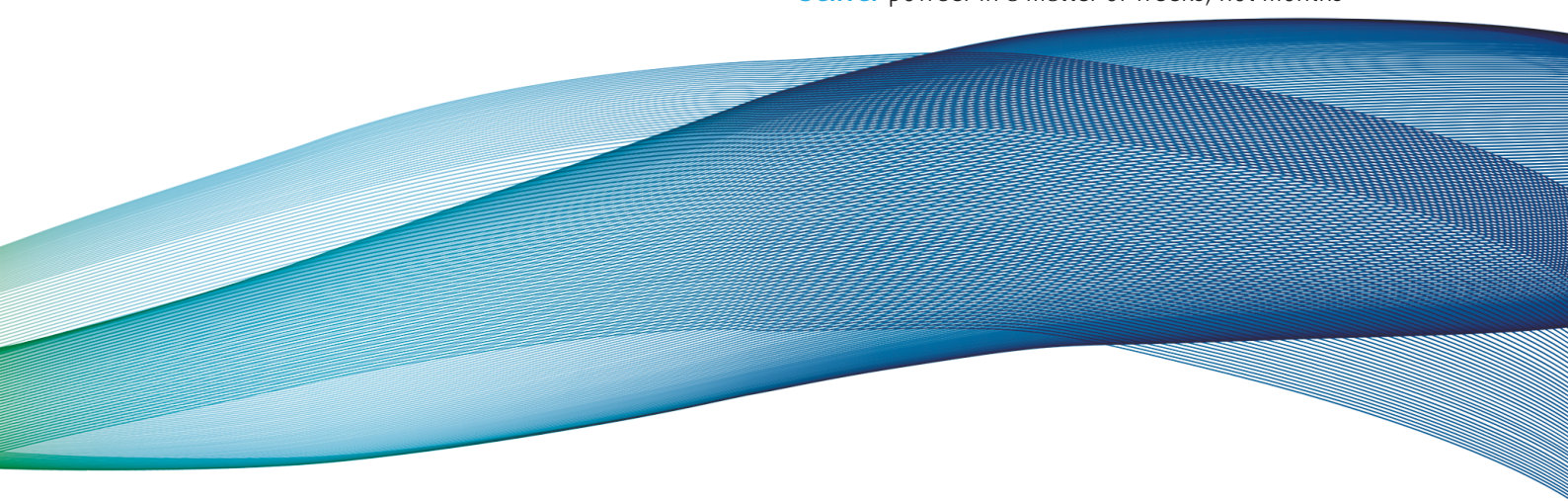
## PHASE 3

### Production Scale-up

Produce approved powder for commercial use.

**Produce** custom powder in lot sizes from 5 kg to 2,500 kg

**Deliver** powder in a matter of weeks, not months



# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, it is our task to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages, and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardized as well as customized solutions. This applies to all industries and all companies regardless of their size.

If you want to keep pace with tomorrow's competition, you need a partner by your side for whom top quality, process optimization, and enhanced productivity are part of daily business. However, we define partnership not merely as being there for you but being with you. After all, joint activities form the core of commercial success.

**Linde – ideas become solutions.**

## Contact Us Today

Contact our technical sales team for a free precision powder formulation consultation.

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