PowderLife

A POWDER-TO-PART, CLOSED-LOOP AM ECOSYSTEM

Hardware, software, and processes to drive innovation

STOCK 50%+ LESS INVENTORY
through intelligent powder management

REDUCE POWDER COSTS BY UP TO 25%
by quantifying powder reuse limits

SPEND 50%+ LESS CHANGEOVER TIME
between builds with smart hardware solutions
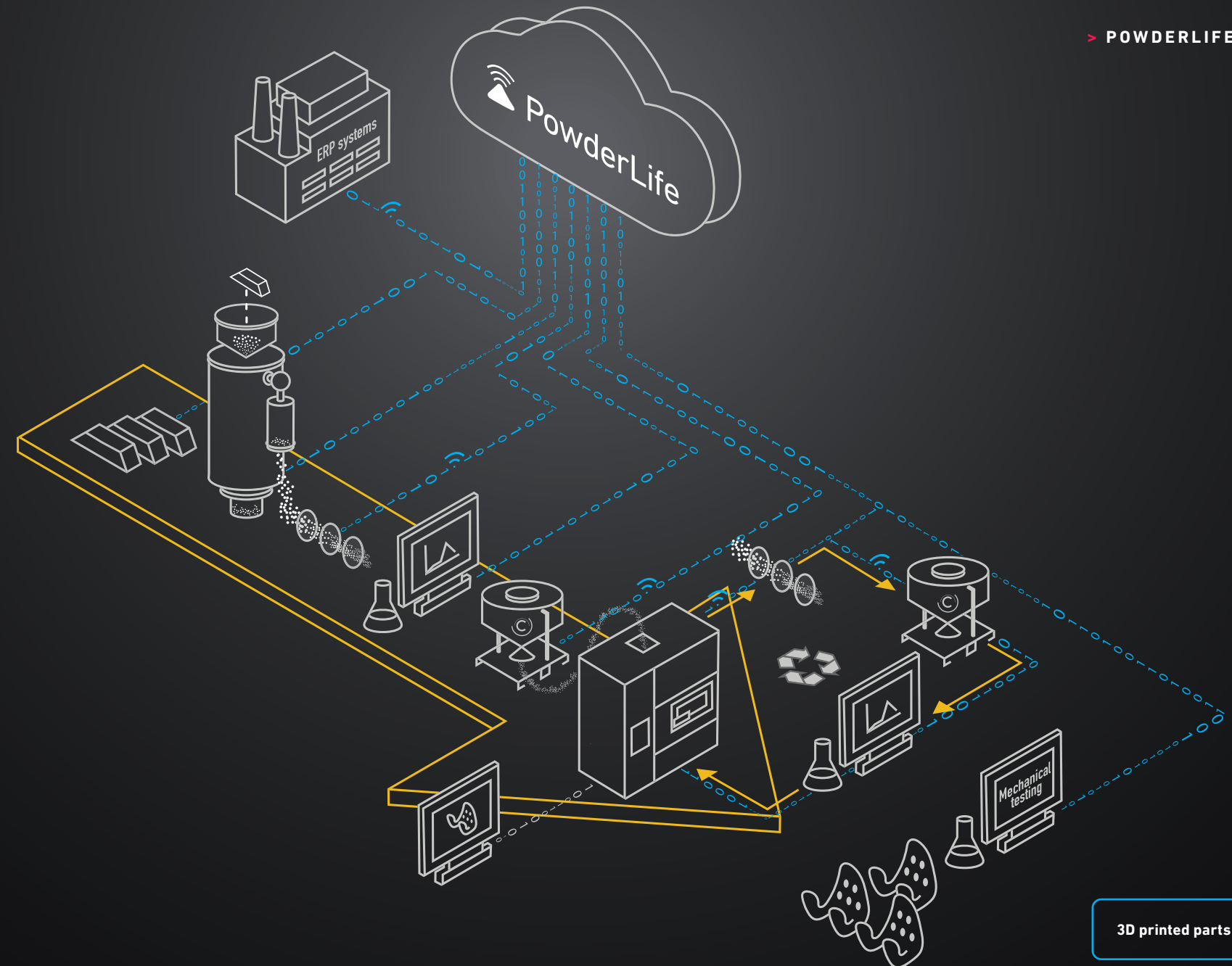
IMPROVE QUALITY BY UP TO 30%
with traceability designed specifically
for AM powder

PUT OUR 130+ YEARS
of alloy and production expertise
to work for you

PARTNER WITH OUR INDUSTRY
–LEADING METALLURGISTS
and thousands more material and
industry experts on staff

ERP systems

PowderLife

3D printed parts

Mechanical testing

ADDING CONTROL TO THE AM PROCESS

Process inefficiencies, material contamination and quality, environmental waste and exposure, traceability, and inventory management are all barriers to the industrialization of additive manufacturing. At Carpenter Additive, we recognize these challenges and offer metal powder production solutions specifically tailored to individual AM processes and facilities.

The ultimate suite of AM production tools

Enabling an agnostic range of hardware and software, including:

- Medical-grade stainless steel hoppers for bulk metal powder transportation and storage
- Stands and frames for holistic machine integration
- Closed-loop powder handling to reduce powder contamination and avoid exposure to safety and environmental hazards
- Lifecycle management software with automated data analytics to allow extended powder reuse, trace powder by batch, manage inventory, and ensure quality

With 130+ years' experience, Carpenter Additive is continually innovating our solutions to tackle AM challenges and drive improvements for the future of the industry.

Reduce risk, improve safety and increase economic viability

PowderLife was developed with advanced AM users in mind—certified to the latest safety standards and designed to optimize processes and maximize profitability. Hardware connects with all standard metal AM machinery to transport and store metal powder safely and efficiently. PowderSolve software gives you real-time updates of powder status during the AM lifecycle. Every powder touchpoint creates data—a digital thread underpinning your entire AM value chain—allowing you to control, analyze, and improve processes within one secure, easy-to-use interface.

Significant ROI and improved operational efficiency

- Track your AM production from powder to part
- Improve productivity and equipment effectiveness
- Reuse metal powder with confidence
- Reduce risk, recalls, material waste, and costs
- Ensure traceability, quality, safety, and value

Your trusted partner in powder-to-part additive manufacturing

Carpenter Technology Corporation is a recognized leader in high-performance specialty alloy-based materials and process solutions for critical applications in the aerospace, defense, transportation, energy, industrial, medical, and consumer electronics markets.

For additional information, please contact your nearest sales office:

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