

Part Screening: Optimise Parts, Maximise Savings

Unlock Efficient, Scalable Manufacturing Decisions

3D Spark Part Screening brings instant clarity to make-or-buy choices, procurement, and technology investments. Teams can analyze 10,000+ parts across all major production routes - finding savings, beating deadlines, shrinking carbon footprints, and powering portfolio-wide transformation.

KEY BENEFITS



Scale Efficiency

Screen tens of thousands of parts to select the most cost-effective, sustainable manufacturing process - automatically



Procurement Intelligence

Compare in-house versus supplier costs side-by-side for true price visibility and smarter decision-making



CAPEX Justification

Build an ironclad business case for technology investments - using real inventory, cost, and lead time data



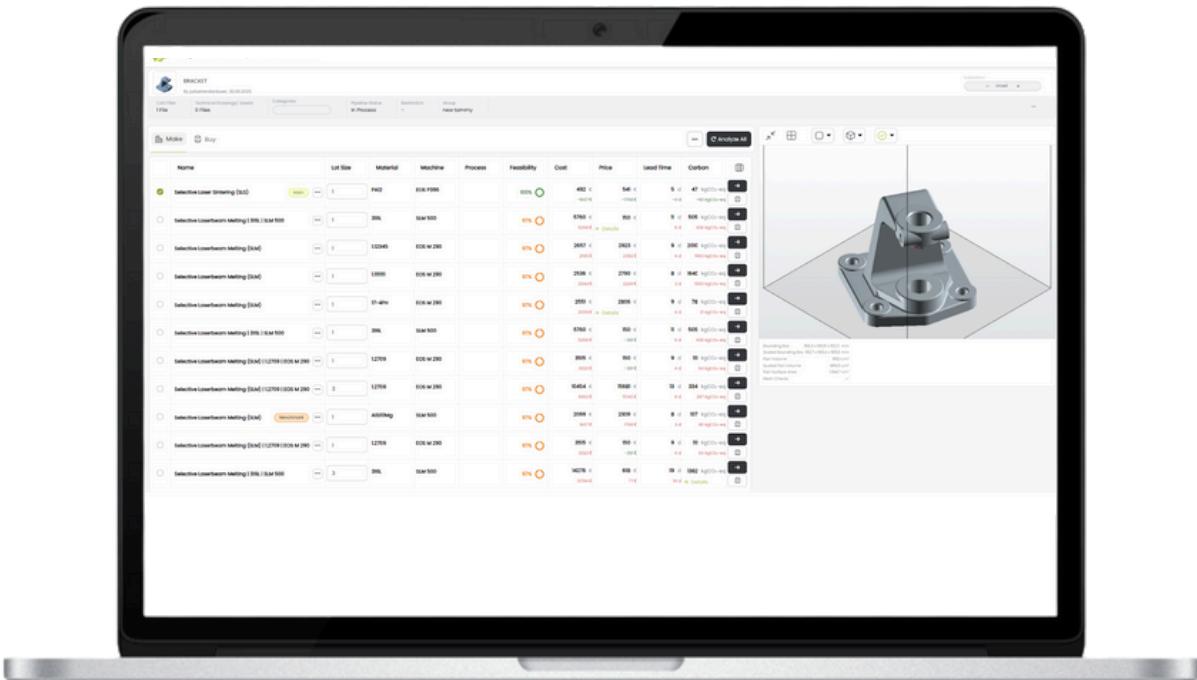
Sustainability as Standard

Identify process options with the lowest CO₂ impact - helping hit environmental targets portfolio-wide



Identify Use-Cases

Showcase parts on the 3D Spark Supplier Panel to grow verified demand and identify more business opportunities



 **CORE CAPABILITIES****Portfolio Screening**

Analyse 10,000+ parts in one sweep - evaluate AM and conventional options, and rank savings by process, cost, and speed

Feasibility + Economics

Run manufacturability checks with instant benchmarking (cost, lead time, CO₂), for in-house and supplier pricing

Data Flexibility

Works with everything - 3D CAD, 2D drawings, ERP/BOM data - so no part is left behind. Analyse with only ERP when CAD is unavailable

Calibrated Accuracy

Get results you can trust - our cost models are customized to your equipment and supply chain, achieving real-world accuracy within ±10% after calibration.

Trackable Results

Store outcomes in a secure digital warehouse. A dashboard keeps KPIs front and center: cost down, time saved, CO₂ cut

Expert Support

Optional engineering support with redesign and process recommendations via AMPOWER partners

 **SUCCESS STORY**

ÖBB-Technische Services-GmbH improved spare parts management efficiency by 80%; automated analysis for over 100,000+ parts; achieved 90% time savings and 95%+ costing accuracy across their operations.

Enterprises Achieve 80% Efficiency Gains in Spare Parts Management With the Help of 3D Spark

"3D Spark allows us to accurately calculate part costs and analyze our 100,000+ spare parts portfolio for cost and lead time savings. It's essential for managing our complex inventory efficiently and supports our mission for sustainable, low-cost mobility solutions,"

Patrick Klein, Application Engineer



100k+

Parts Analyzed

80%

Efficiency Improvements

95%+

Costing Accuracy

20%

Reduction in procurement effort



GET STARTED & SEE YOURSELF



Download a Sample Report

Discover actionable portfolio insights - feasibility, technology breakdowns, and ranked parts by savings



Start Now

Just share your ERP extract and a sample CAD set. 3D Spark returns a ranked shortlist, with clear savings and feasibility evidence for confident decisions

Contact us to supercharge your portfolio analysis and start hitting your cost, lead time, and sustainability targets - faster than ever.