

Transform Technical Drawings into 3D Models - Faster, Smarter, Easier

Revolutionize Manufacturing & Engineering Workflows

3D Spark's AI-powered drawing analysis instantly converts standard 2D technical drawings into near-net shape models, eliminating manual work and accelerating production.

KEY BENEFITS

Lightning-Fast Conversion

Reduce project timelines dramatically - 3D Spark processes complex drawings, transforming days of manual measurement into minutes of automated precision

AI-supported Data Extraction

Advanced neural networks extract every dimension, line, and annotation with manufacturing-grade accuracy, ensuring flawless results

Seamless CAD Integration

Export effortlessly to STL files. Integrate with leading ERP and CRM systems to enable digital workflows from design to production

Enterprise-Ready Scalability

Handle high volumes and multiple teams with containerised architecture supporting concurrent users and large datasets, optimised for GPU/CPU

Visual Traceability & Confidence Scores

Results are audited and traceable - visual output highlights detected features, and confidence scores provide assurance for every measurement

HOW IT WORKS



1. Upload

Submit PNG, JPG, or PDF drawings to the secure portal



2. Analyze

Advanced AI detects objects, recognizes dimensions, and processes text - covering X/Y/Z measurements, diameters, and thicknesses

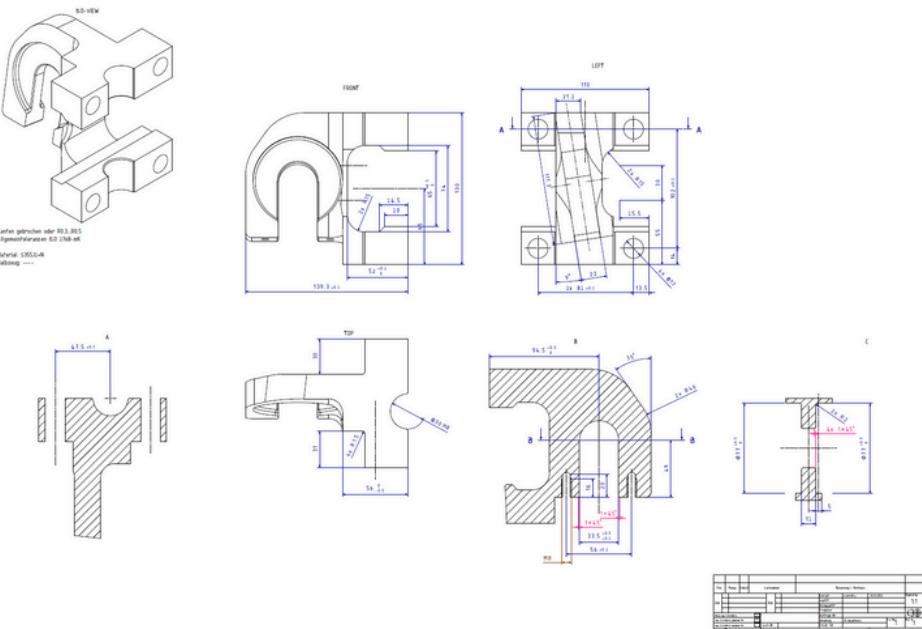


3. Deliver

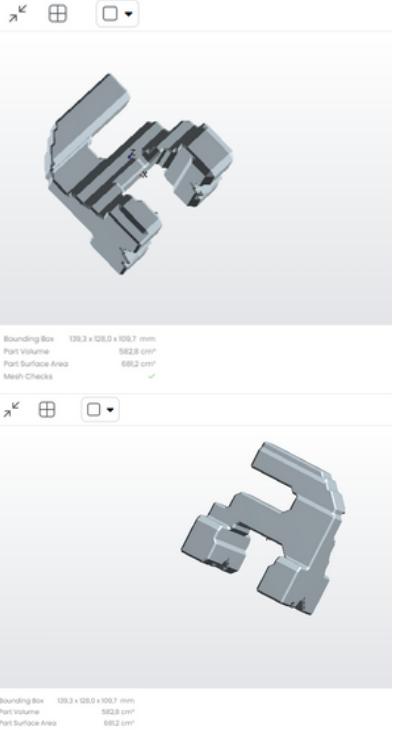
Get instant JSON and STL outputs, plus processing metadata - ready for CAD workflows and reporting


EXAMPLE WORKFLOW OUTPUT

Original 2D Drawing



Generated 3D Model




WHY 3D SPARK?

Trusted by manufacturing leaders to cut costs and unlock productivity

Built for design and engineering-, sales- & procurements teams

No data retention - customer files are isolated and instantly cleaned for peace of mind


TECHNICAL HIGHLIGHTS

State-of-the-art computer vision and OCR, custom-trained for engineering use cases

Horizontal scaling and rapid response, even for large multi-view drawings

REST API endpoints provide instant health and analysis feedback for enterprise integration

Contact us to see how 3D Spark can drive your business into the future - one drawing at a time.