3YOURMIND

AM WORKFLOW SOFTWARE

Technical Features

AM PART IDENTIFIER

Inventory Analysis

Connection to Existing ERP Systems

Metadata Extraction and Criteria Mapping

Technological and Economic AM Suitability Analysis

Automatic Part Complexity Analysis based on CAD Model

Scoring of AM Business Cases

AM Pricing Estimates

Part Life Cycle Tracking

Use Case Screening

Online Screening Interface

Standardized Digital Part Submission Process

Instant Evaluation of Individual Parts

Configurable Workflow

Out-of-the-Box Part Use Case Reporting

Industry-Tested Evaluation Logic

Custom Evaluation Criteria

Manufacturing Decision Recommendations

COLLABORATION

3D File Management

Support 30+ File Formats for Upload

Batch File Upload and Processing

20+ CAD System Plugins for Direct Upload
(Autodesk, SolidEdge, SolidWorks, Siemens NX, ...)

Model Organization as 3D Projects

Quick Search (File Name, Customer, Order Date, Status, ...)

Project Collaboration

Project Sharing Across Organization

Email Invitation for Collaborate

Commenting on Parts or Projects

Comment on Part Geometry within Viewer (Beta)

Define Custom Part Requirements

Attach Part Documents (PDFs, Licenses, Pictures, ...)

ORDER MANAGEMENT

Process Selection

Instant, Accurate Part Pricing

Material Filtering and Selection (Physical, Electrical, Chemical Properties, Characteristics, Lead-times, Availability, ...)

Print Service Comparison by Delivery Time and Price

3D Model Viewer (Wireframe, Transparency, Printability Analysis)

Request a Quote or Place Part Order

Batch Upload 3D Models via Drag & Drop

Single or Multiple Post-Production Methods

Process Selection Across Multiple Parts

Order Tracking

Order Tracking through Production Workflow

Order Filtering based on Status Updates

Automatic Status Updates via Email

Delivery Tracking Links

Repeat Past Part Orders

Accurate Pricing

Custom Part Pricing Formulas

Custom Post-Processing Pricing Formulas

Custom Support Pricing Formulas

Custom Orientation Pricing Formulas

Step-by-Step Pricing Formula Assistant

Accuracy Verification with a Pricing Formula Tester

Manual Pricing Requests

Smart Rules to Offer Manual Pricing Requests

Custom Quotation and Invoice Layout

Printing Service Configuration

Database of 300+ Materials
(Name, Physical and Technical Properties, ...)

Combine Material and Post-Processing

Configure Multiple Locations

Custom Shipping Methods and Cost

Custom Pickup Locations

Custom Payment Methods

Credit Card Payment Processing

Discounts, Minimum Order Prices and Extra Fees

Personalized Vouchers

Order Accounting

Detailed Order Summary

Project Communication Tracking

Generate Order Confirmation as PDF

Generate Delivery Note as PDF

Generate Invoice as PDF

Required Company Information

Customer Reference Number

Order Data Export as CSV

3D Model Optimization

Printability Analysis (Wall Thickness, Gaps, Shells, ...)

Model Repair (3YOURMIND Mesh Healing Engine)

Model Optimization based on Production Technology Selection

High-Accuracy Model Conversion to STL

Download of Original or Optimized 3D Model

AGILE MES

Part Prioritization

Automatically Prioritized Part Recommendations for Build Jobs

Unique Part Sequence IDs (Schedule Orders in Multiple Print Jobs)

Part Filtering (Material, Order Date, Delivery Date, ...)

Assignment of Employees and Groups to Parts

Attach Documents, Instructions and Comments to Parts

Review Version History for Modified Parts

Batch Download of Part Lists and Production Files for Processing

Tracking

Custom Workflow Templates (Optional Customization per Part)

Unlimited Workstations for Printing and Processing

Quality Assurance Process Tracking

Custom Process Statuses

Notifications for Comments, Errors and Job Status Updates

Rules to Automatically Forward Parts to External Suppliers

Scheduling

Part Assignment into Print Jobs

Custom Job Status, Names and Printer Assignment

Automate Scheduling of Prioritized Parts based on Nesting Behaviour

Attach Documents, Instructions and Comments to Jobs

Automatically Generate and Download Job Processing Documents

Production Overview by Job or Printer

Scrap and Reschedule Broken Jobs and Parts

Schedule Workstation Maintenance

Analytic Reports (Delivery on Time, Printer Utilization, Job Success Rate, ...)

Machine Integration (Beta)

Direct Data Integration with 3D Printers

Scheduling and Sending Print Jobs to Printers

Storage and Assignment of Default Printer Parameters

Real-time Information Updates (Printing Time Shifts, Time for Disarmament, Dismantling, ...)

Collection and Storage of Real-Time Process Parameters (Log Files, Parameter Set, Versioning, Manual Setting Adjustments, ...)

Notification and Collection of Special Events (Machine Error Messages, Machine Status, Completion of Jobs, ...)

Development of AM Production Standard for Software-to-Machine Connectivity

INFRASTRUCTURE AND INTEGRATIONS

Installation

SaaS (Dedicated 3YOURMIND Cloud Hosted in Germany)

On-Premise (Self Deployment on Customer Cloud using 3YOURMIND Documentation)

On-Premise (Self Deployment using 3YOURMIND Documentation)

Dockerized Deployment

Simple Deployment and Setup Scripts

Customization

Multiple Production Locations

Compatibility

Mobile-Optimized

Compatible with All Major Web Browsers

Support Multiple Database Types (PostgreSQL, MySQL, MariaDB)

Built to Scale for Enterprise Applications

Integrations

Continuously Maintained API Documentation

Custom Integrations in 3rd Party Systems through REST APIs

60+ Integrated Software Products (ERP, PLM, CAD, WEB, MES, ...)

Data Processing

Integration with AWS S3 for Secure Data Storage

Normalized Database (All Data is Only Stored Once)

Performance Optimized
(Upload and Analysis of 100 files in approx. 8 min)

Security

End-to-End Encrypted Data Transfer with TLS

Layered Platform Permissions

Complex Authorization and Role Management

Automatic System Monitoring, Direct Alerts and Instance Logging

Compliant with GDPR-EU and FTC Act (15 U.S.C. 41-58)

Restriction of File Download

ADMINISTRATION

User Management

Single Sign On (Authentication Protocols: oAuth, SAML, JWT)

Verification Workflows for New Users

Profile Preferences and Personal Address Book

Supports 9+ Currencies and Conversion (Configurable)

Customization

Multi-Language

White Labeling

Custom Subdomain

Customize Frontend

ANALYTICS

Performance Overview

Order Statistics

User Statistics

Upload Statistics

SUPPORT

Agile Project Management with Metrics for Customer Success

Dedicated Native Speaker in Required Language

Multi-level Service Packages

Detailed Product Documentation

Branded User Manuals for End Users