TimeLine®
timeline-erp.com
TIMELINE ERP
Electronics
Transforming chaotic BOMs into clean processes
VERSION 16

Complex BOMs. Fluctuating prices. Full Traceability.

Welcome to TimeLine Electronics!

Complex BOMs, fluctuating component prices, and strict customer requirements are precisely why we developed an industry solution that truly understands EMS.

What makes us an industry expert

- Specialization: We speak the language of EMS, from MPN and MOQ to Traceability.
- Practical Relevance: Developed with real electronics manufacturers, focused on your daily business.
- End-to-End Solution: From the initial RequestFor-Quotation (RFQ) to series production, without isolated solutions.
- Transparency & Security: Clear costs, reliable calculati-ons, audit-proof processes.
- Experience: Decades of ERP expertise, bundled for one of the most complex industries.

6 Reasons

WHY EVERY ELECTRONICS MANUFACTURER NEEDS TIMELINE

1 No two BOMs are alike
Customers often provide BOMs in chaotic formats, whether Excel, CAD, or PDFs.
TimeLine imports every BOM and automatically performs BOM-Clearing to cleanse and complete any missing data.

2 Components: The Heart of Your Operations
With fields like Value, Package, Footprint, Tolerance, or Compliance, TimeLine captures all the essential Properties that EMS providers require. Eliminate confusion and prevent faulty item master data entries.

3 Purchasing: A Complex Challenge
From lead times, MOQs, and tiered pricing to managing excess stock, TimeLine automates all calculations. Its intuitive traffic light logic instantly highlights part availability and identifies viable alternatives.

4 Deliver Quotations in Hours, Not Days
Leveraging direct price and availability inquiries (e.g., Nexar/Octopart) and integrated Calculation, TimeLine eliminates the chaos of Excel spreadsheets. Your customers will swiftly receive clean, reliable, and highly competitive Quotations.

5 Traceability: A Non-Negotiable Requirement
Reels, trays, and residual quantities are meticulously managed as Containers within the system. Achieve seamless traceability, precise down to the serial number, fully audit-proof, and always customer-oriented.

6 Eliminate Duplicate Data Maintenance
Automatic document recognition intelligently reads Orders and PurchaseOrders directly from PDFs, integrating them seamlessly into your ERP. Purchasing, Calculation, Production, and Logistics all operate cohesively within a single, unified system.

NO DETOURS, NO EXTRA TOOLS, NO COMPROMISES.

The ERP solution for EMS providers.

Short product cycles, chaotic BOMs, and fluctuating component prices are part of daily life in electronics manufacturing. With TimeLine Electronics, you transform this chaos into transparent calculations, realistic purchasing, and full traceability. An industry solution, specifically developed for EMS providers and SMD assemblers.

Highlights of the Electronics Package

BOM Importer

Import without Excel chaos within minutes

BOM Editor

BOM Clearing, Price Requests, and Sourcing Scenarios in one module

Nexar & Luminovo

Live Prices, Availability, and RFQs directly in the ERP

Calculation

Robust Pricing without Excel lists

Proxies

MPN Alternatives and customer-specific items

Tokenizer

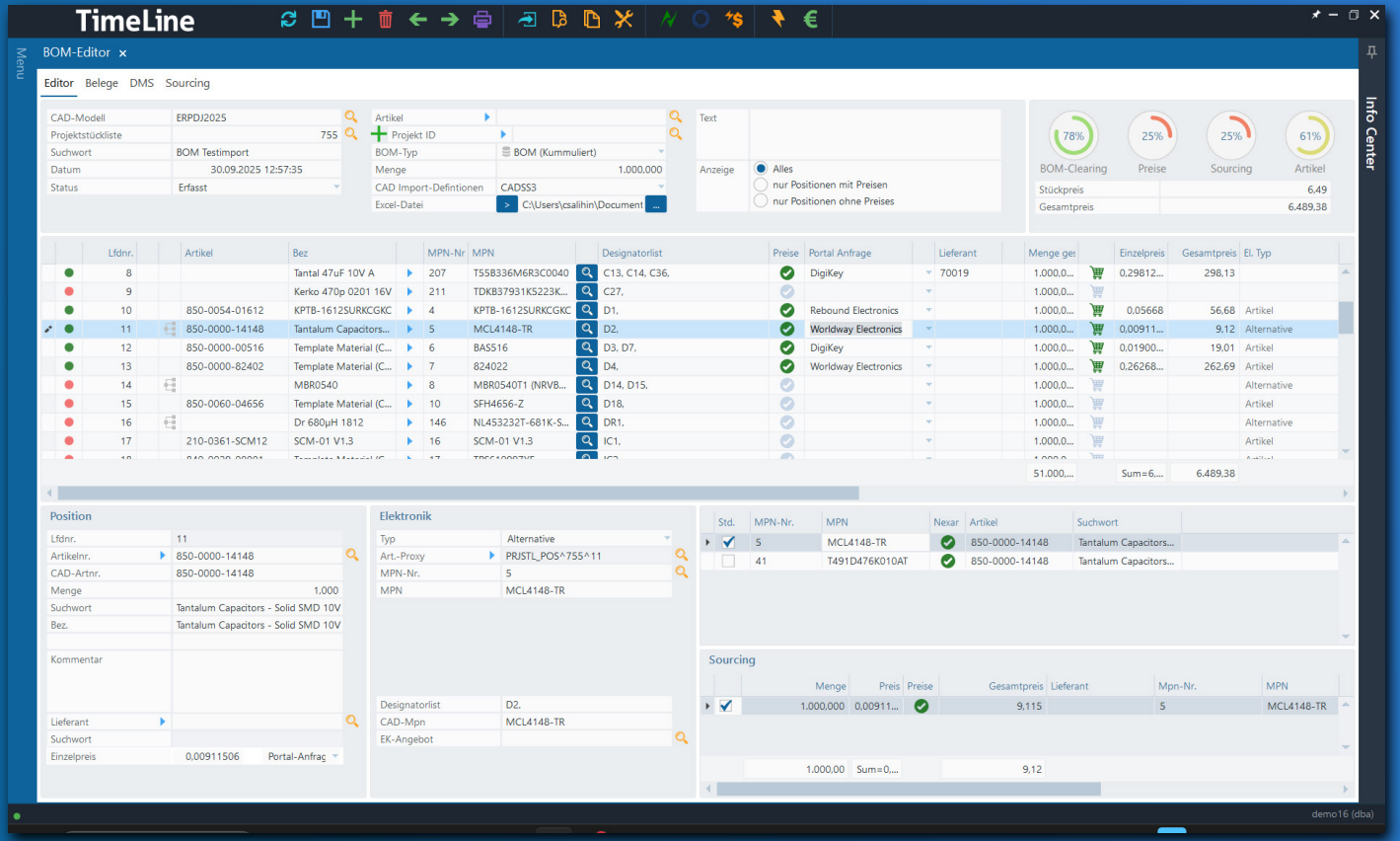
Generate Customer Orders directly from PDFs

Logistics

Traceability from reel to re-maining quantity

BOM IMPORT

PRICES & SCALES IN REAL TIME



BOM IMPORT

Automated Bill of Material Import

Import chaotic Excel or electronics BOMs in minutes, with flawless mapping using the Import Wizard.

DIRECT IMPORT OF EXTERNAL BOMS

Bills of material can be read in just a few steps. A drag-and-drop wizard is available for new Excel formats: Columns are mapped once, automatically saved, and subsequently imported with no recurring effort. Different formats are reliably recognized and standardized.

CONSISTENT DATABASE

Heterogeneous BOMs are transformed into reliable, standardized structures, including MPN linking. This ensures clean data without manual rework, forming the basis for precise subsequent processes.

SEAMLESS FURTHER PROCESSING

Customer data is automatically assigned to internal item numbers. Purchasing, production, and warehouse access the same database for smooth operations from the start.

YOUR ADVANTAGES AT A GLANCE

- BOM import in minutes
- New Import Wizard with drag-and-drop for flexible field assignment
- Automatic saving of mappings for recurring files
- Uniform structures despite different formats
- Minimize error sources and secure subsequent processes

BOM EDITOR

Optimal Production Preparation for EMS

The core Electronics functionality within TimeLine ERP

FROM BOM TO PRODUCTION SETUP

The BOM Editor imports electronic BOMs and prepares them for production. Components can be verified directly via online databases such as Octopart, Mouser, or Digi-Key, including comprehensive image display and precise MPN assignment.

INTEGRATED SOURCING

Via the Nexar interface, prices and availabilities of all relevant suppliers are queried. New suppliers can be immediately integrated into the system. Based on reference quantities, detailed sourcing scenarios can be calculated, either by best price or by price and availability, considering StockLevels and minimum quantities.

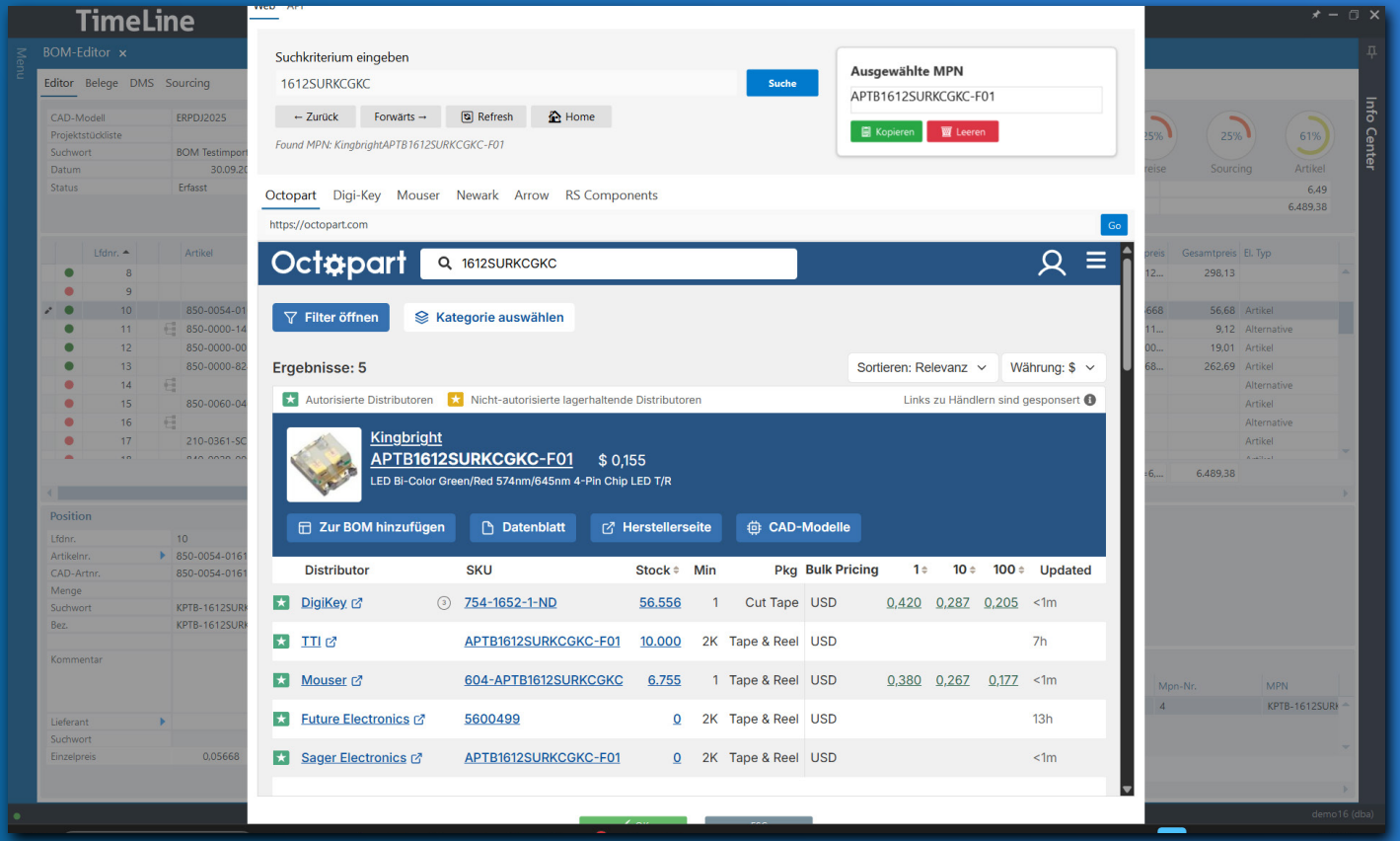
SEAMLESSLY INTEGRATED INTO CALCULATION

The determined scenarios can be directly transferred into PreCalculations. Simultaneously, components can, if desired, be automatically created in the Item Master, ensuring a consistent data foundation without data silos.

YOUR ADVANTAGES AT A GLANCE

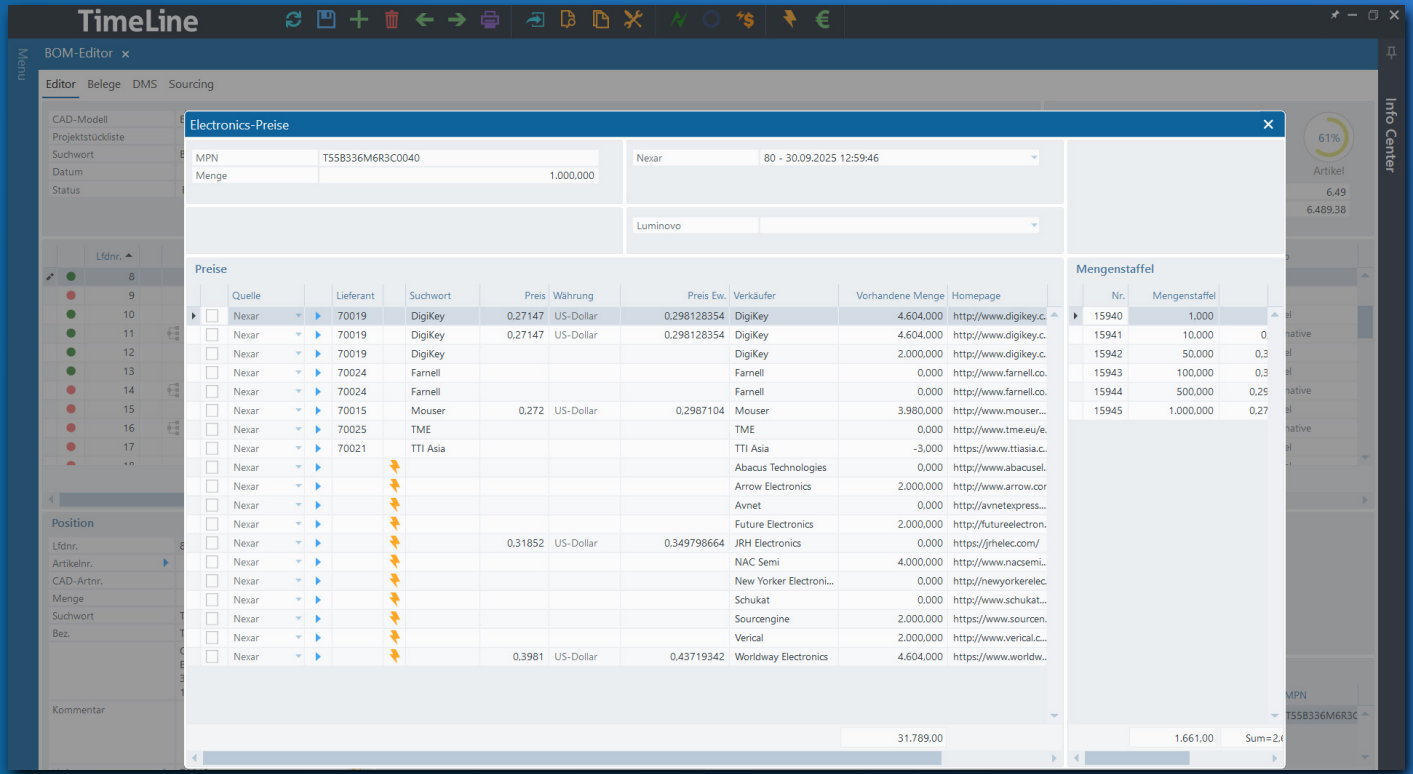
- Central preparation of BOMs with Designators and assembly data
- Direct access to Octopart, Mouser, Digi-Key, Newark, Arrow, and RS
- Automatic price and availability query via Nexar
- Sourcing scenarios with best-price logic and StockLevels
- Quick transfer into Calculations and Item Master

BOM-EDITOR
CLEARING & SOURCING



NEXAR AND LUMINOVO

LIVE PRICES & AVAILABILITY



NEXAR & LUMINOVO INTERFACE

Real-time sourcing directly in the ERP

Launch RequestForQuotation (RFQs) from TimeLine to receive up-to-date supplier quotations, including tiered prices, MOQs, and stock levels.

LIVE PRICES & AVAILABILITIES

This module queries real-time distributor conditions directly from TimeLine ERP. You gain instant insight into current prices, stock levels, and tiered pricing, without external tools or websites.

DIRECT RFQS

RequestForQuotation (RFQs) are launched directly from the system. Quotations return automatically, allowing seamless work with reliable data.

CENTRAL DECISION BASIS

Eliminate time-consuming research: All information is consolidated, available, and instantly evaluable. This ensures transparent procurement, robust calculations, and informed purchasing decisions.

YOUR BENEFITS AT A GLANCE

- Live prices, tiered pricing, and availability directly in the ERP
- Launch RFQs and automate response processing
- No external tools or detours needed
- Greater transparency and security in procurement decisions
- Improve margins, avoid mispurchases

PROXYS

Intelligent MPN and Proxy Management

Manage countless Manufacturer Part Numbers (MPNs) per item, ensuring full control over all customer-specific alternatives while maintaining complete transparency, even across many years.

SEAMLESSLY INTEGRATE CUSTOMER-SPECIFIC VARIANTS INTO YOUR SYSTEM

With PROXYS' advanced proxy management, you can link an unlimited number of Manufacturer Part Numbers (MPNs) to each individual item. Furthermore, local alternatives can be maintained on a project- or customer-specific basis directly within your Bill of Materials (BOM) model, ensuring clear traceability and long-term availability.

SIMPLIFY THE MANAGEMENT OF INTRICATE REQUIREMENTS

Diverse specifications and unique customer requests are an everyday reality, particularly prevalent in the fast-paced electronics industry. PROXYS ensures that all product variants are consistently documented, centrally managed, and readily accessible whenever required.

ENHANCE FLEXIBILITY ACROSS PROCUREMENT & PRODUCTION

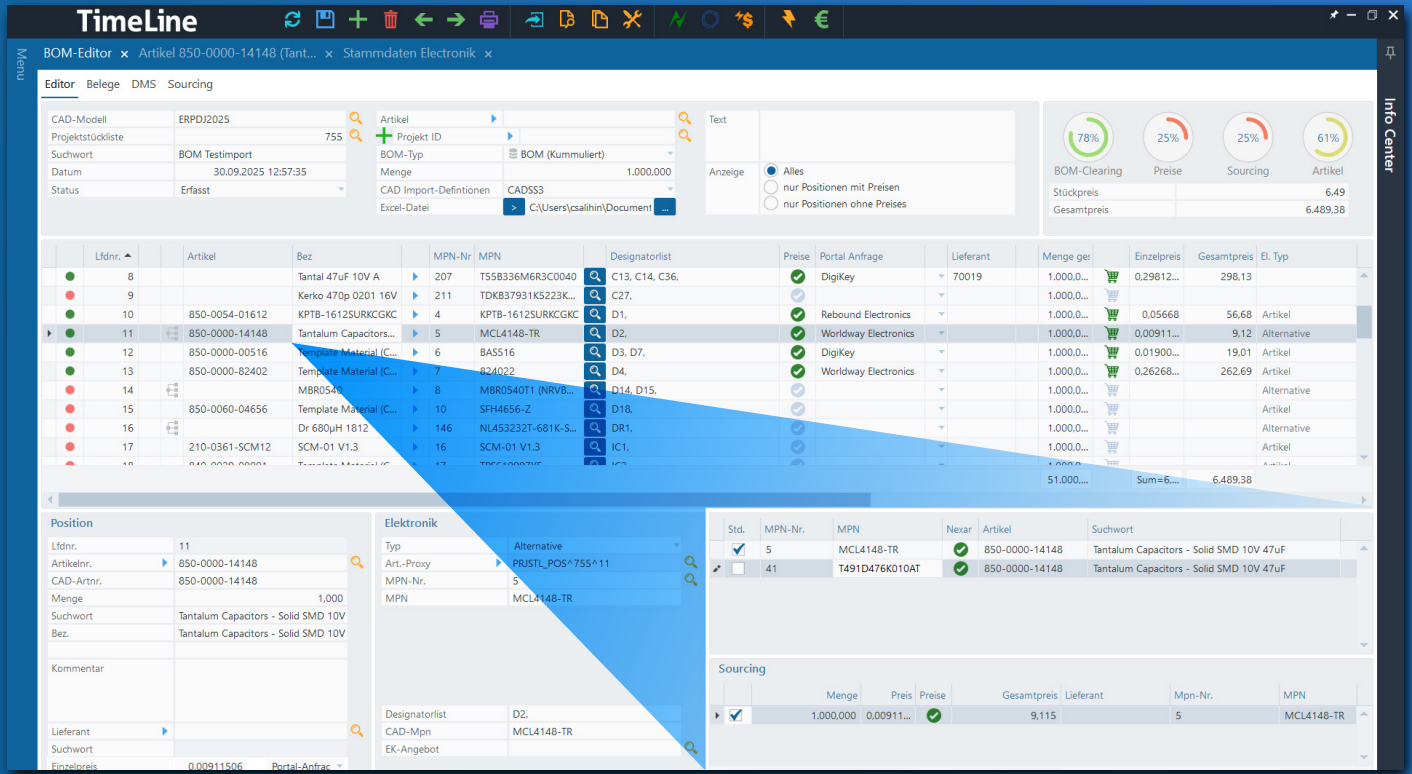
PROXYS empowers the strategic use of alternative components by optimizing stock levels, maintaining agile procurement processes, and ensuring flexible production operations. This approach enables you to retain full control, even amid fluctuating and demanding requirements.

YOUR KEY BENEFITS AT A GLANCE

- Manage an unlimited array of MPNs per item
- Store customer-specific alternatives with clear, long-term traceability
- Maintain a consistent, central, and comprehensive overview of all product variants
- Securely handle even the most intricate customer requirements

PROXIES

ALTERNATIVES & VARIANTS



TOKENIZER

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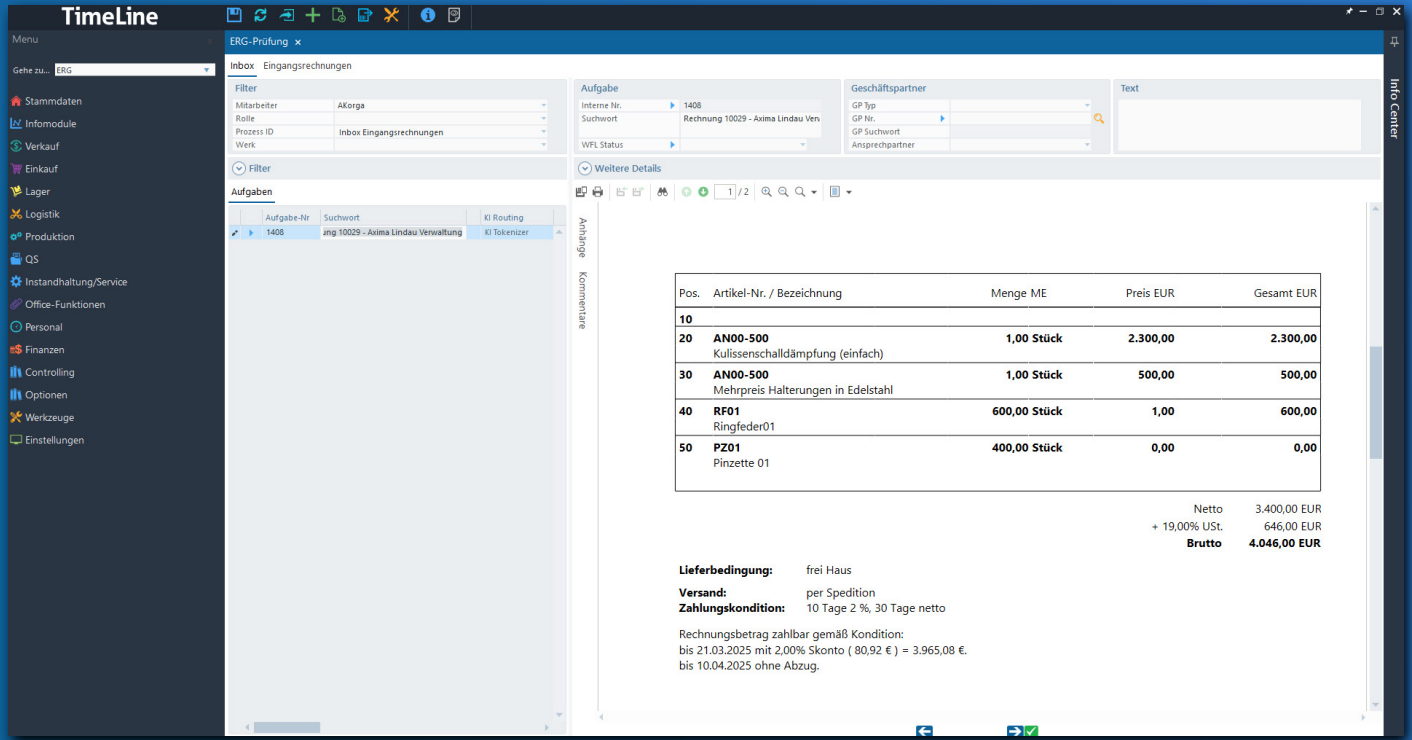


TOKENIZER

Automated Document Processing with AI

Fast, error-free, seamlessly integrated.

AUTOMATIC DOCUMENT CAPTURE

The AI-Tokenizer automatically extracts incoming PDFs, such as CustomerOrders or Invoices, and converts them into structured data. This ensures all types of Docs are transferred into the system without manual entry.

FROM ORDER TO DOC IN SECONDS

The AI recognizes content, creates the appropriate Docs, and assigns them correctly. This creates continuous digital workflows without media disruptions and without rework.

SEAMLESSLY INTEGRATED

The module is fully embedded in TimeLine ERP. External tools are unnecessary, reducing processing times and increasing responsiveness in daily operations.

YOUR ADVANTAGES AT A GLANCE

- Automatic extraction of Orders and Invoices
- AI-powered Doc creation without manual intervention
- End-to-end digital workflows without media disruptions
- No third-party software needed, all integrated within the ERP
- Proprietary AI model, no external US tool dependencies
- Optional On-Premise Hosting for maximum data control

CALCULATION

Reliable Quotations in Minutes

With Real-Time and Tiered Pricing

AUTOMATED PRE-CALCULATION

The Calculation module generates reliable Pre-Calculations at the touch of a button. Tiered prices, foreign currencies, and Minimum Order Quantities (MOQs) are automatically considered, ensuring transparent costs already in the quotation phase.

ACTUAL PURCHASE CONDITIONS INSTEAD OF EXCEL

Manual lists are eliminated. Calculations are made directly based on current purchase prices and inventory data. This provides a constant overview of actual profitability and helps secure quotations with confidence.

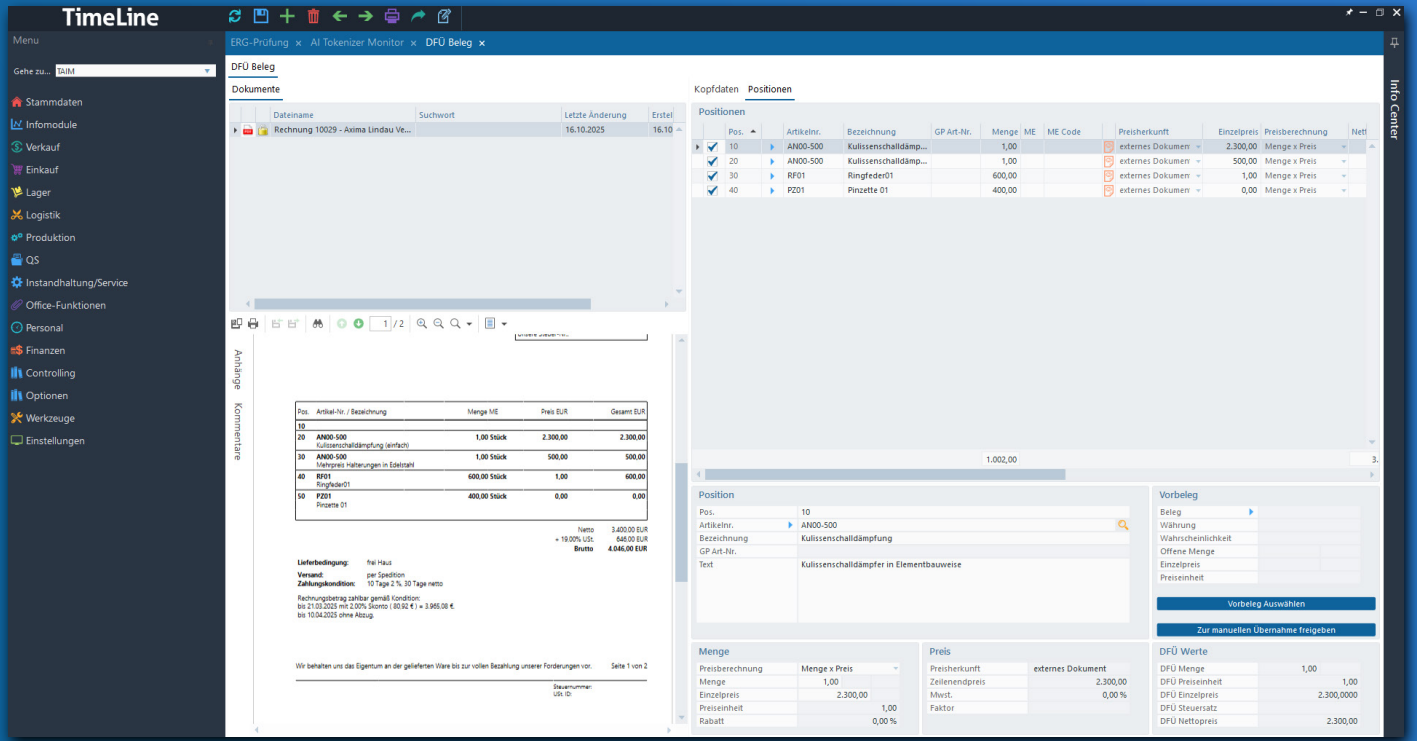
ALL IN ONE SYSTEM

No external tools needed.All calculation steps run entirely within the ERP, seamlessly, consistently, and efficiently. This shortens quotation times, creating a reliable foundation for your pricing strategy.

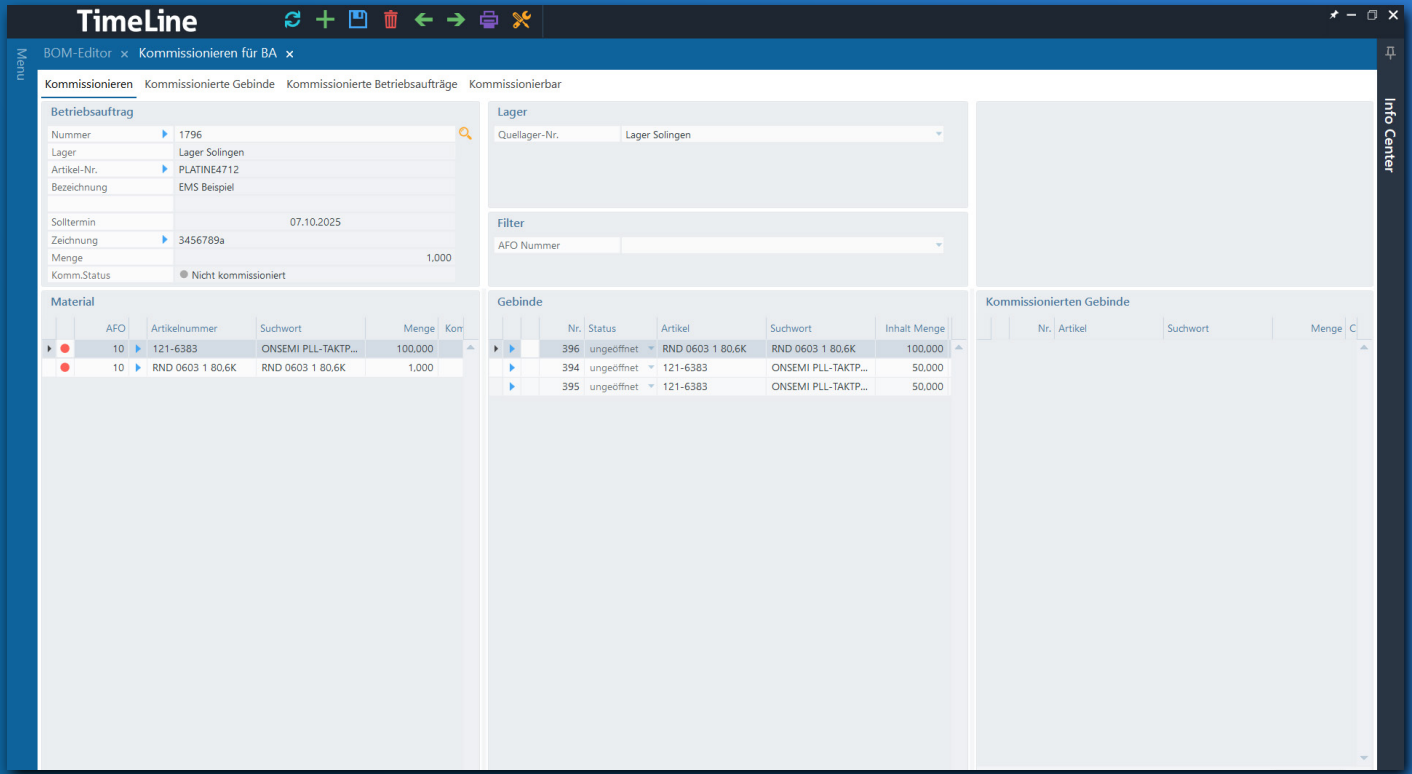
YOUR ADVANTAGES AT A GLANCE

- Pre-Calculation in minutes, automatic and transparent
- Consideration of tiered prices, foreign currencies, and MOQs
- Using real purchase prices and inventory data
- No Excel sheets, no third-party tools
- Well-founded pricing and reliable quotations

CALCULATION



LOGISTICS
SCANNER & RÜCKVERFOLGUNG



LOGISTICS

Reels, Rolls, and Partial Quantities under Control

Full Transparency in Electronics Logistics

MANAGE WAREHOUSE MOVEMENTS CLEARLY

Reels, trays, and partial quantities are managed fully scanner-based. This ensures Stocks remain precisely traceable at all times, and unclear partial quantities become a thing of the past. IncomingGoods scenarios as well as Picking processes can be reported back conveniently from anywhere via mobile HTML5 scanner masks.

SCANNER INTEGRATION FOR REAL-TIME STOCKS

Transactions are performed automatically via scanner, retroactively, or in real-time. This keeps Stocks current, transparent, and auditable. Simultaneously, scrap decreases, and material utilization is optimized.

TRACEABILITY DOWN TO THE DETAIL

Reels are treated as independent Containers and can be seamlessly traced. This creates security for production and quality assurance and increases planning reliability.

YOUR ADVANTAGES AT A GLANCE

- Scanner-based management of Reels, Rolls, and partial quantities
- Precise Stocks without manual rework
- Automatic transactions and retroactive capture
- Complete traceability of Containers
- Less scrap, greater planning certainty

With TimeLine, we achieved a 30% improvement in our responsiveness.
– *Thomas Reitner*
Chief of Sales triorail
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All Functions at a Glance:

TimeLine ERP V16 Standard Features

CRM | Sales | Purchasing | Inventory Management | Warehouse Scanner | Production and Planning
Production Data Capture | Contract Manufacturing | Projects | Quality Assurance | Business Intelligence
CAD Integration | Office Functions

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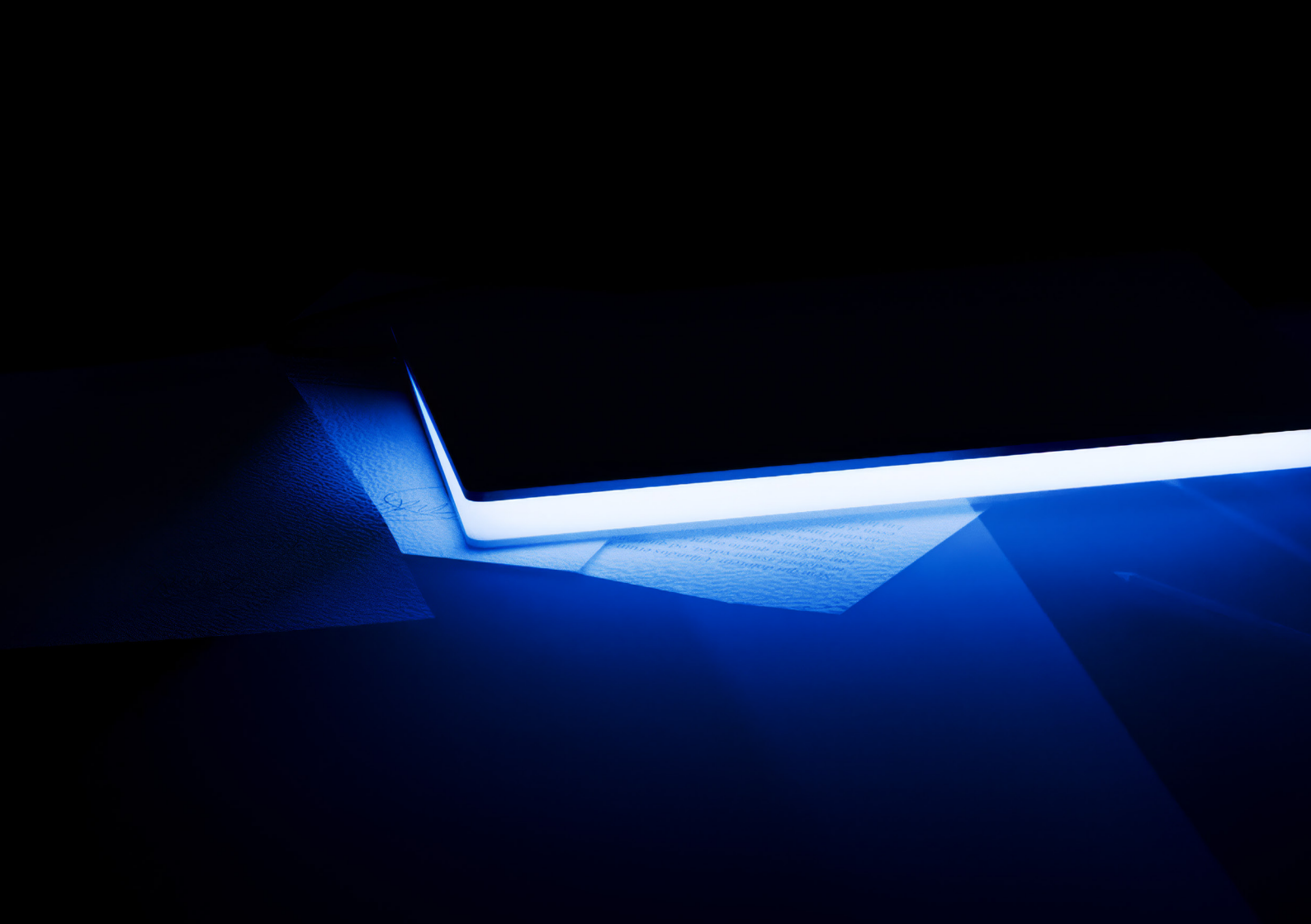

TimeLine® ERP

Always the last to leave

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Experience TimeLine live!

Online Presentation
The fastest way to get to know TimeLine ERP.
An expert guides you through the software functions while discussing your individual needs and questions.

Webinar
Our regular webinars let you experience TimeLine ERP's full functionality and applications live within 60 minutes.

Trial Version
Discover the benefits of an integrated ERP system in your personal trial environment.
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