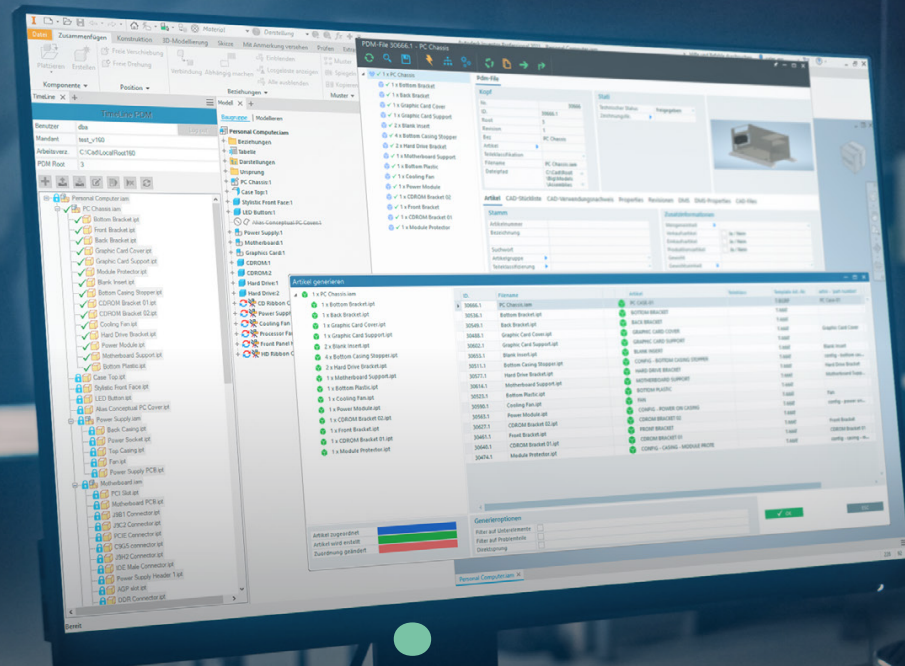




timeline-erp.com



TIMELINE ERP

# Engineering

Seamlessly integrating Development,  
Purchasing, Planning, and Production.

VERSION 16

POWERFUL FEATURES – BROADER SCOPE

# Seamlessly integrated processes for maximum efficiency.

As an all-in-one solution, TimeLine Engineering unifies all business operations within a single system, from the initial customer Request For Quotation (RFQ) through engineering design to final delivery. The seamless integration of CAD systems, powerful Document Management, and intelligent Project Management forms the basis for efficient projects.

# Engineering Package Highlights



## Projects

Project Management with  
Milestones and Tasks



## Calculation

Pre- and Project Calculation with  
comprehensive Post-Calculation



## Variants

Product Configuration with  
integrated Variant Generator



## PPS

Comprehensive Production  
Planning tailored to  
Project Manufacturing



## CAD

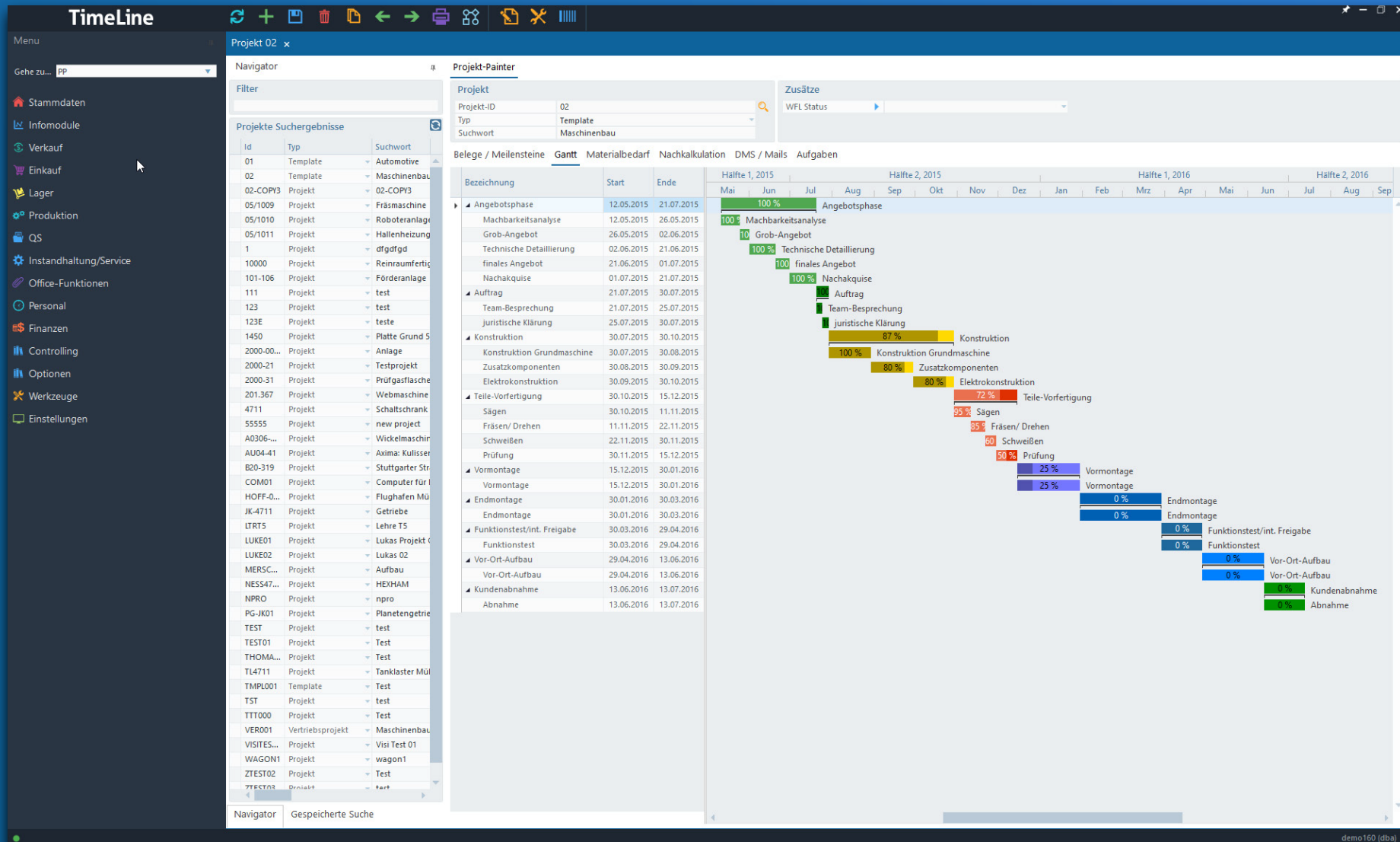
Bidirectional CAD Integration  
and Autodesk Inventor Plugin



## PDM

PDM System for central  
Data Management within the  
ERP Solution

# Module: Project



## PROJECT MANAGEMENT

# Master complex processes with confidence

In project and discrete manufacturing, efficient project management is key to your success. TimeLine provides a powerful tool that ensures transparency and control across all project phases.

### Central Control Unit for All Activities

The central project administration unifies all relevant project information within one clear interface.

From the initial customer RequestForQuotation (RFQ) to final delivery, you oversee all critical factors:

- Milestones and project progress
- Resource planning and capacity utilization
- Cost development and budget control
- Material Demand and procurement
- Customer correspondence and documentation

Intelligent linking of all project data empowers swift, informed decisions. BOMs, ProductionOrders, and Material Demand are directly connected and always accessible. The integrated document management automatically captures all project communication, from the first email to the acceptance protocol or the EC Declaration of Conformity.



# Module: PDM

enterprise

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Infomodule

Verkauf

Einkauf

Lager

Produktion

QS

Instandhaltung/Service

Office-Funktionen

Personal

Finanzen

EDI

Werkzeuge

Einstellungen

PDM 3 x PDM-File 29554.1 - Motherbo... x

1 x Personal Computer

1 x PC Chassis

1 x Case Top

1 x Stylistic Front Face

1 x LED Button

1 x Alias Conceptual PC Cover

1 x Power Supply

1 x Motherboard

3 x J9B1 Connector

1 x J9C2 Connector

1 x PCIe Connector

Pdm-File

Kopf

Nr. 29554

ID. 29554.1

Root 3

Revision 1

Bez Motherboard

Artikel

Teileklassifikation Motherboard.iam

Filename C:\Cad\Root\Big\Models\Assemblies\Personal Computer\Motherboard\Motherboard.iam

Dateipfad

Stati

Technischer Status freigegeben

ZeichnungsNr.

3D-Modell

Artikel generieren

1 x Motherboard.iam

3 x J9B1 Connector.ipt

1 x J9C2 Connector.ipt

1 x PCIe Connector.ipt

2 x C9G5 connector.ipt

2 x J9H2 Connector.ipt

1 x Power Supply Header 1.ipt

3 x PCI Slot.ipt

1 x AGP slot.ipt

4 x DDR Connector.ipt

1 x Processor Heat Sink Mounting.ipt

1 x Processor Heat Sink.ipt

1 x RJ45 Module.ipt

1 x USB Module.ipt

1 x IO Interface Module.ipt

11 x Capacitor 560 UF.ipt

12 x Capacitor 1200 UF.ipt

8 x Capacitor 640 UF.ipt

6 x Capacitor 1000 UF.ipt

7 x Capacitor 3000 UF.ipt

7 x Choke.ipt

1 x Battery.ipt

1 x Bezel.ipt

| ID.     | Filename                         | Artikel                      | Teileklass | Template Art.-Nr. | artnr - part number   | b |
|---------|----------------------------------|------------------------------|------------|-------------------|-----------------------|---|
| 29554.1 | Motherboard.iam                  | MOTHERBOARD                  |            | T-BGRP            | Motherboard           |   |
| 29427.1 | J9B1 Connector.ipt               | J9B1CCONNECTOR               |            | T-MAT             | J9B1Cconnector        |   |
| 29414.1 | J9C2 Connector.ipt               | J9C2 CONNECTOR               |            | T-MAT             | J9C2 connector        |   |
| 29389.1 | PCI Connector.ipt                | PCI CONNECTOR                |            | T-MAT             | PCI Connector         |   |
| 29439.1 | C9G5 connector.ipt               | C9G5 CONNECTOR               |            | T-MAT             | C9G5 connector        |   |
| 29400.1 | J9H2 Connector.ipt               | J9H2 CONNECTOR               |            | T-MAT             | J9H2 connector        |   |
| 29456.1 | Power Supply Header 1.ipt        | POWER SUPPLY HEADER 1        |            | T-MAT             | Power Supply Head...  |   |
| 29406.1 | PCI Slot.ipt                     | PCI SLOT                     |            | T-MAT             | PCI Slot              |   |
| 29470.1 | AGP slot.ipt                     | AGP SLOT                     |            | T-MAT             | AGP Slot              |   |
| 29483.1 | DDR Connector.ipt                | DDR CONNECTOR                |            | T-MAT             | DDR Connector         |   |
| 29452.1 | Processor Heat Sink Mounting.ipt | PROCESSOR HEAT SINK MOUNTING |            | T-MAT             | Processor Heat Sin... |   |
| 29376.1 | Processor Heat Sink.ipt          | PROCESSOR HEAT SINK          |            | T-MAT             | Processor Heat Sin... |   |
| 29465.1 | RJ45 Module.ipt                  | RJ45 MODULE                  |            | T-MAT             | RJ45 Module           |   |
| 29482.1 | USB Module.ipt                   | USB MODULE                   |            | T-MAT             | USB Module            |   |
| 29373.1 | IO Interface Module.ipt          | IO INTERFACE MODULE          |            | T-MAT             | IO Interface Module   |   |
| 29359.1 | Capacitor 560 UF.ipt             | CAPASITOR 560 UF             |            | T-MAT             | Capasitor 560 UF      |   |
| 29489.1 | Capacitor 1200 UF.ipt            | CAPASITOR 1200 UF            |            | T-MAT             | Capasitor 1200 UF     |   |
| 29348.1 | Capacitor 640 UF.ipt             | CAPASITOR 640 UF             |            | T-MAT             | Capasitor 640 UF      |   |
| 29502.1 | Capacitor 1000 UF.ipt            | CAPASITOR 1000 UF            |            | T-MAT             | Capasitor 1000 UF     |   |
| 29478.1 | Capacitor 3000 UF.ipt            | CAPASITOR 3000 UF            |            | T-MAT             | Capasitor 3000 UF     |   |
| 29507.1 | Choke.ipt                        | CHOKE                        |            | T-MAT             | Choke                 |   |

Artikel zugeordnet

Artikel wird erstellt

Zuordnung geändert

Generieroptionen

Filter auf Unterelemente

Filter auf Problemtelle

Direktsprung

OK

ESC

1 x Motherboard PCB

1 x Cooling Fan, 40mm x 40mm

1 x Cooling Fan, 40mm x 40mm

1 x Fan Guard, 40mm

1 x Power Supply Header 2

1 x Graphics Card

1 x Graphic Card PCB

4 x Capacitor 3500 UF

1 x Graphic Card Heat Sink

9 x Chip 5 x 3

Flat Pattern Length FlatPatternExtentsL... 0 Alpha.

Flat Pattern Width FlatPatternExtents... 0 Alpha.

Keywords Schlüsselwörter Alpha.

Language Sprache Alpha.

Last Saved By Zuletzt gespeichert... 2021.3 (Build 253533000, 353) Alpha.

Last Updated With Letzte Aktualisierung... Alpha.

Manager Manager Alpha.

Manufacturer Hersteller Alpha.

Maccc Maccc 476 8507164730R Alpha.

test v160 ldbal

## CALCULATION

# Accurate calculations, more efficient production

Whether one-off productions, variants, or complex projects, the challenge lies in quickly and reliably determining the correct prices. TimeLine ERP supports you with sophisticated tools for PreCalculation and Project Calculation that seamlessly integrate into your production processes.

### Efficient PreCalculation for One-Off Productions

For individual parts and small series, TimeLine enables a direct path from PreCalculation to Production without time-consuming item master data creation. This streamlined process saves valuable time on unique orders while ensuring the highest calculation accuracy.

### PostCalculation and Cost Control

A special focus is placed on project-related PostCalculation. Through the automatic booking of time and material consumption from linked ProductionOrders, you receive a precise overview of actual project costs. Separate budgeting of milestones enables detailed cost control at all levels.

### Intelligent Variant Management

Pre-configured items form the basis for fast and precise calculations of new variants. The system accesses stored RoutingPlans, BOMs, prices, and sales texts. In the event of an order, all technical information is automatically transferred to a ProductionOrder for a seamless transition from Calculation to Production.

### Transparent Project Cost Overview

Integrated Project Management enables comprehensive PostCalculation through:

- Precise feedback on all Tasks
- Continuous Target-Actual Comparison
- Real-time overview of project costs
- Extensive and detailed evaluation options

A close-up, low-angle shot of a robotic arm in a factory. The arm is black and metallic, with various cables and sensors attached. It is positioned over a large, dark, rectangular metal plate that has a grid of small, square holes. The background is a bright, industrial environment with a large window and overhead lights. The overall tone is professional and technical.

PROJECT MANUFACTURING

## For demanding manufacturing tasks

TimeLine ERP offers the ideal platform for your Project Manufacturing. From the initial drawing to the finished product, all processes are seamlessly integrated. The software was specifically developed for the requirements of Engineer-to-Order and Project Manufacturing and supports you in managing highly complex manufacturing projects.

## Intelligent Bill of Material Management

The cornerstone of your project manufacturing activities is the highly flexible Project Assembly Management. This powerful module facilitates the seamless and direct transfer of CAD data, efficiently processing both newly designed parts and existing items within single- or multi-level structures. Item master data can be precisely adopted from CAD imports or, alternatively, leveraged from established template assemblies and items.

The integrated BOM comparison tool provides full transparency and control over the continuous evolution of your projects. You gain immediate insight into all modifications, enabling you to selectively implement desired changes while preserving all essential links to PurchaseOrders and other relevant Docs.

## Streamlined, End-to-End Processes

The ProjectAssembly serves as a central link between Engineering and Manufacturing. Its assembly-specific release functionality enables the selective MatReservation of approved components. Furthermore, new versions originating from your CAD system are automatically assigned unique identifiers and can be integrated into ongoing projects without disruption.

## Efficient Project Execution and Control

The ProjectProductionOrder (PPOs) significantly improves the management of intricate manufacturing projects. Unlike conventional ERP systems, TimeLine consolidates complex multi-level structures into a single, unified order. This approach reduces administrative overhead and streamlines all subsequent downstream processes. Directly from the Bill of Material, you can generate with just a few clicks:

- RequestForQuotation (RFQ) and PurchaseOrders
- DelNoteXM for ContractManufacturing
- Sub-ProductionOrders for assemblies

**A key advantage** is that the ProjectProductionOrder (PPOs) operates effectively even without predefined item numbers. This capability significantly simplifies processes, particularly for unique, one-off cutting positions or custom-sized components.



# Module: Project Production Order

enterprise

ProjektBA 1213 (Prjstl 17) x

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Gehe zu...

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MDE  
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Produktions-Infomodule  
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Plan-Betriebsaufträge (PPL)  
Koppelbetriebsaufträge (PBAK)  
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Projektbetriebsaufträge (PRB)  
Rückmeldungen (PRM)  
Plantafel (PP1)  
Plantafel2 (PP2)  
CAD-Link & PDM (PDM)  
CAD-Projektstücklisten (CAD)  
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Kopf **Stückliste (Struktur)** Stückliste (Tabellarisch) Arbeitsfolgen Materialwirtschaft DMS Kalkulation Rückmeldungen/Nachkalkulation Termine Aufgaben

Struktur

Navigation

Position **Stückliste** Arbeitsfolgen (1)

Unterelemente

| Lfdnr. | Status           | Artikel          | Virtueller Name  | Suchwort          | Bez1              | Bez2               | Menge | Lieferant | Pers. Suchwort | Ein |
|--------|------------------|------------------|------------------|-------------------|-------------------|--------------------|-------|-----------|----------------|-----|
| 3      | erledigt/verbaut | D.0806073.222.01 | D.0806073.222.01 | ABDECKBLECH OBEN  | Abdeckblech Oben  | t=5 gebeizt        | 1,00  |           |                |     |
| 4      | erledigt/verbaut | D.0806073.064.01 | D.0806073.064.01 | BLECH             | Blech             | 40x1490x2180       | 1,00  |           |                |     |
| 5      | erledigt/verbaut | D.0806073.064.02 | D.0806073.064.02 | BLECH             | Blech             | 40x1090x1500       | 1,00  |           |                |     |
| 6      | erledigt/verbaut | D.0806073.064.03 | D.0806073.064.03 | BLECH             | Blech             | 20x800x920         | 1,00  |           |                |     |
| 7      | erledigt/verbaut | D.0806073.064.04 | D.0806073.064.04 | BLECH             | Blech             | 5x555x2180 gebeizt | 1,00  |           |                |     |
| 8      | erledigt/verbaut | D.0806073.064.05 | D.0806073.064.05 | BLECH             | Blech             | 20x455x800         | 3,00  |           |                |     |
| 9      | erledigt/verbaut | D.0806073.064.06 | D.0806073.064.06 | BLECH             | Blech             | 30x150x380         | 3,00  |           |                |     |
| 10     | erledigt/verbaut | D.0806073.222.02 | D.0806073.222.02 | ABDECKBLECH SEITE | Abdeckblech Seite | t=5 gebeizt        | 1,00  |           |                |     |
| 11     | erledigt/verbaut | D.0806073.222.03 | D.0806073.222.03 | ABDECKBLECH SEITE | Abdeckblech Seite | t=5 gebeizt        | 1,00  |           |                |     |
| 12     | erledigt/verbaut |                  |                  |                   | Flachstahl        | 120x35x540         | 2,00  |           |                |     |
| 13     | erledigt/verbaut | D.0806073.064.09 | D.0806073.064.09 | BLECH             | Blech             | 20x120x185         | 1,00  |           |                |     |
| 14     | erledigt/verbaut | D.0806073.064.07 | D.0806073.064.07 | BLECH             | Blech             | 20x120x311         | 2,00  |           |                |     |
| 15     | erledigt/verbaut | D.0806073.064.08 | D.0806073.064.08 | BLECH             | Blech             | 20x120x185         | 1,00  |           |                |     |
| 16     | erledigt/verbaut | D.0806073.064.10 | D.0806073.064.10 | BLECH             | Blech             | t=10 gekantet      | 1,00  |           |                |     |
| 17     | erledigt/verbaut | D.0806073.064.14 | D.0806073.064.14 | BLECH             | Blech             | 40x340x495         | 1,00  |           |                |     |
| 18     | erledigt/verbaut | D.0806073.064.15 | D.0806073.064.15 | BLECH             | Blech             | 15x150x300         | 3,00  |           |                |     |
| 19     | erledigt/verbaut |                  |                  |                   | Blech             | 20x135x230         | 1,00  |           |                |     |
| 151    | erfasst          | 1000             |                  |                   |                   |                    | 1,00  |           |                |     |

Stücklistenposition

Artikel D.0806073.222.01  
Virtueller Name D.0806073.222.01  
Menge 1,00 Stück  
Kumulierte Menge 1,00 Man.  
Faktor 1,00 X Stück = 1 Stück  
Eingabe Indirekt  
Suchwort ABDECKBLECH OBEN  
Eindeutige CAD-ID  
Zeichnungsnummer D.0806073.222.01

Text

Bez Abdeckblech Oben  
t=5 gebeizt

Konditionen

Geschäftspartner  
Preis  
Preiseinheit Stück  
Gesamtpreis 1,00  
Preisherkunft 0,00

Disponierte Stücklistenposition

STL-Pos. 140  
Material GKZ 0,00 %  
Dispotermin KW 52 2019  
Lager Lager Solingen  
Abbuchten bei AFO-ID 10

OLP15 (dba)

## Flexible Operations Planning

TimeLine offers two approaches for Operations Planning:

- Assembly-specific Operations enable precise multi-stage Routing Plans with forward and backward scheduling.
- Pooled Operations provide simplified planning without fixed assembly assignment, ideal for standardized processes.

Both options support detailed Pre- and Post-Calculation, alongside precise Project Planning. Predefined templates accelerate the creation of new Routing Plans.

## Integrated Cut Optimization

This intelligent cut processing optimizes your manufacturing processes:

- Automatic detection of cuts upon import of Project Assemblies
- Centralized management of all laser, nesting, and cut lists
- Efficient planning and feedback within Coupled Product Orders
- Formula-based classification of semi-finished products for precise material demands



# Module: Variant Configurator

**TimeLine**

Gehe zu... VAB

**Navigator**

- Favoriten
- Stammdaten
- Infomodule
- Verkauf
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- Produktion
- QS
- Instandhaltung/Service
- Office-Funktionen
- Personal
- Finanzen
- Controlling
- Optionen
- Werkzeuge
- Einstellungen

**Auftragsbestätigung x**

Kopfdaten Zusätze Texte Positionen DMS / Mails

Belegposition

| Position | Typ     | Artikel-Nr.      | Bezeichnung                  | Menge/Zeit | Übernommen | Offen | Einzelpreis | Rabatt | Gesamtpreis | Status | Dispotermin | Roherlös [EW] | SOKO Gruppe |
|----------|---------|------------------|------------------------------|------------|------------|-------|-------------|--------|-------------|--------|-------------|---------------|-------------|
| 1        | Artikel | U71HN-024KX-TEMP | DC RADIAL Venti U71HN 10Pol. | 0,00       | 0,00       | 0,00  | 500,00      | 0,00 % | 0,00        | Offen  | 29.08.2024  |               |             |

**Kalkulation Generierung**

1 Letzte Konfigurationen 2 Technische Merkmale 3 Ergebnisse

**Quell**

Artikel U71HN-024KX-TEMP  
Varianten-Template 28  
U71HN 10Pol.

**Merkmal**

Merkmal-Nr. 25  
Bezeichnung Ventilatoren

**Zugeordnete Merkmale**

|    |                  |                                                                                                           |
|----|------------------|-----------------------------------------------------------------------------------------------------------|
| 1  | Höhe             | 12,00000                                                                                                  |
| 12 | db(A)            | 12,00000                                                                                                  |
| 2  | Breite           | 25,00000                                                                                                  |
| 11 | Spannung         | <input type="checkbox"/> 12 V<br><input checked="" type="checkbox"/> 24 V<br><input type="checkbox"/> 6 V |
| 10 | Umdrehung        | 6.000,00000                                                                                               |
| 13 | Software Version | Release 2                                                                                                 |
| 19 | Volumenstrom     | 125,00000                                                                                                 |
| 18 | Statischer Druck | 25,00000                                                                                                  |
| 21 | Med. Beatmung    | <input checked="" type="checkbox"/>                                                                       |
| 8  | Farbe            | RAL44                                                                                                     |
| 14 | Zugfestigkeit    | 256,00000                                                                                                 |
| 16 | Bruchdehnung     | 24,00000                                                                                                  |

**Eingabe Fol**

Position  
Pos.-Nr.  
Artikel-Nr.  
Bezeichnung  
Text

**Menge**

|                 |        |            |
|-----------------|--------|------------|
| Preisberechnung | 0,00   | Stück      |
| Menge           | 500,00 | Euro       |
| Einzelpreis     |        | Stück      |
| Rabatt          | 0,00 % |            |
| Dispotermin     | Datum  | 29.08.2024 |

**Mengeneinheit**

|                |        |
|----------------|--------|
| Stück          | 1,00   |
| Faktor         | 1,0000 |
| Zielenendpreis | 0,00   |
| Netto          | 0,00   |
| Brutto         | 0,00   |

**Bestell**

|            |           |
|------------|-----------|
| Produktion | 0,00 (+)  |
| Reserviert | 1,00 (-)  |
| Verfügbar  | -1,00 (-) |

< Zurück Generieren Abbruch

Customer17 [dba]

## VARIANTS

# Flexible Variant Production

TimeLine ERP supports both approaches to variant production: constructive variant creation within the CAD system and configuration within the ERP system. Thanks to its integrated PDM system, combined with the SmartCopy function and a powerful variant generator, TimeLine supports all requirements of modern variant production.

### Constructive Variants with SmartCopy

The innovative SmartCopy function of the TimeLine Inventor plugin enables efficient creation of constructive variants. The system directly accesses the CAD system's assembly references, selectively exchanging variant-forming assemblies and parts. Intelligent similarity copies ensure new variants are created quickly and error-free, directly controlled by the TimeLine PDM system.

### Flexible Configuration in ERP

For companies that generate their variants within the ERP system, TimeLine offers a powerful formula- and attribute-based variant generator. Product configuration is done via technical attributes, utilizing a flexible variant template. This multi-level maximum Bill of Materials automatically adapts to the selected attributes, generating the desired product variant.

### Seamless Integration

Both variant concepts are fully integrated into TimeLine. Whether constructive modification or rule-based configuration, the system ensures that all product information remains consistent and seamlessly transitions into production. This flexibility makes TimeLine a suitable solution for a wide range of variant manufacturers.





CAD INTEGRATION

# Seamless CAD and ERP Integration

TimeLine ERP seamlessly connects the worlds of engineering design and production within a unified solution. The system directly reads Bills of Material (BOMs) and metadata from 3D models, automatically ensuring bidirectional synchronization. Design nodes are transferred as items with their complete BOMs, ensuring continuous, revision-controlled technical synchronization.

## Secure Versioning

Seamless revision management guarantees maximum data security. Upon changes, TimeLine automatically generates essential item and PDM file revisions. This ensures revision-proof management of Stocks and reliable spare parts supply through transparent version control.

## Intelligent Data Import

The flexible mapping mechanism makes integration particularly efficient. Technical properties are precisely transferred into the Item Master and PropertyGrids via formula-based assignments. IntelliSense-supported formula creation enables individual adaptation to your specific requirements.

## Comprehensive Catalog Integration

The flexible import function enables the targeted integration of external data. Supplier catalogs and standard part databases can be easily integrated into the system. Through controlled item generation, you always maintain full control over your database.

## Integrated 3D Visualization

TimeLine offers integrated visualization of 3D neutral formats like STEP and IGES, entirely without additional CAD licenses or external viewers.



# Module: Inventor Plugin

The screenshot displays the Autodesk Inventor Professional 2021 interface. The main window shows a 3D model of a PC chassis. A PDM-File dialog is open, displaying the following information:

**PDM-File 30666.1 - PC Chassis**

**Kopf**

|                     |                                   |
|---------------------|-----------------------------------|
| Nr.                 | 30666                             |
| ID.                 | 30666.1                           |
| Root                | 3                                 |
| Revision            | 1                                 |
| Bez                 | PC Chassis                        |
| Artikel             |                                   |
| Teileklassifikation |                                   |
| Filename            | PC Chassis.iam                    |
| Dateipfad           | C:\Cad\Root\Big\Models\Assemblies |

**Stati**

|                    |             |
|--------------------|-------------|
| Technischer Status | freigegeben |
| ZeichnungsNr.      |             |

**Artikel** CAD-Stückliste CAD-Verwendungsnachweis Properties Revisionen DMS DMS-Properties CAD-Files

**Stamm**

|                      |  |
|----------------------|--|
| Artikelnummer        |  |
| Bezeichnung          |  |
| Suchwort             |  |
| Artikelgruppe        |  |
| Teileklassifizierung |  |

**Zusatzinformationen**

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| Mengeinheit        |                                                             |
| Verkaufsartikel    | <input type="checkbox"/> Ja / <input type="checkbox"/> Nein |
| Einkaufsartikel    | <input type="checkbox"/> Ja / <input type="checkbox"/> Nein |
| Produktionsartikel | <input type="checkbox"/> Ja / <input type="checkbox"/> Nein |
| Gewicht            |                                                             |
| Gewichtseinheit    |                                                             |

**Materialwirtschaft**

|                        |  |
|------------------------|--|
| Lagernummer            |  |
| Lagerdetail            |  |
| Mindestbestand         |  |
| Losgröße               |  |
| Wiederbeschaffungszeit |  |

**Produktion**

|                      |  |
|----------------------|--|
| Stücklistenauflösung |  |
| Entnahmearzt         |  |
| Werkstoff            |  |
| Ausschuss [%]        |  |
| Projekt ID           |  |

The left sidebar shows the assembly structure, including components like Bottom Bracket, Back Bracket, Graphic Card Cover, and various connectors. The bottom status bar indicates the file is 'Personal Computer.iam' and the user is 'Bereit'.

## INVENTOR PLUGIN

# Seamlessly Uniting CAD and ERP

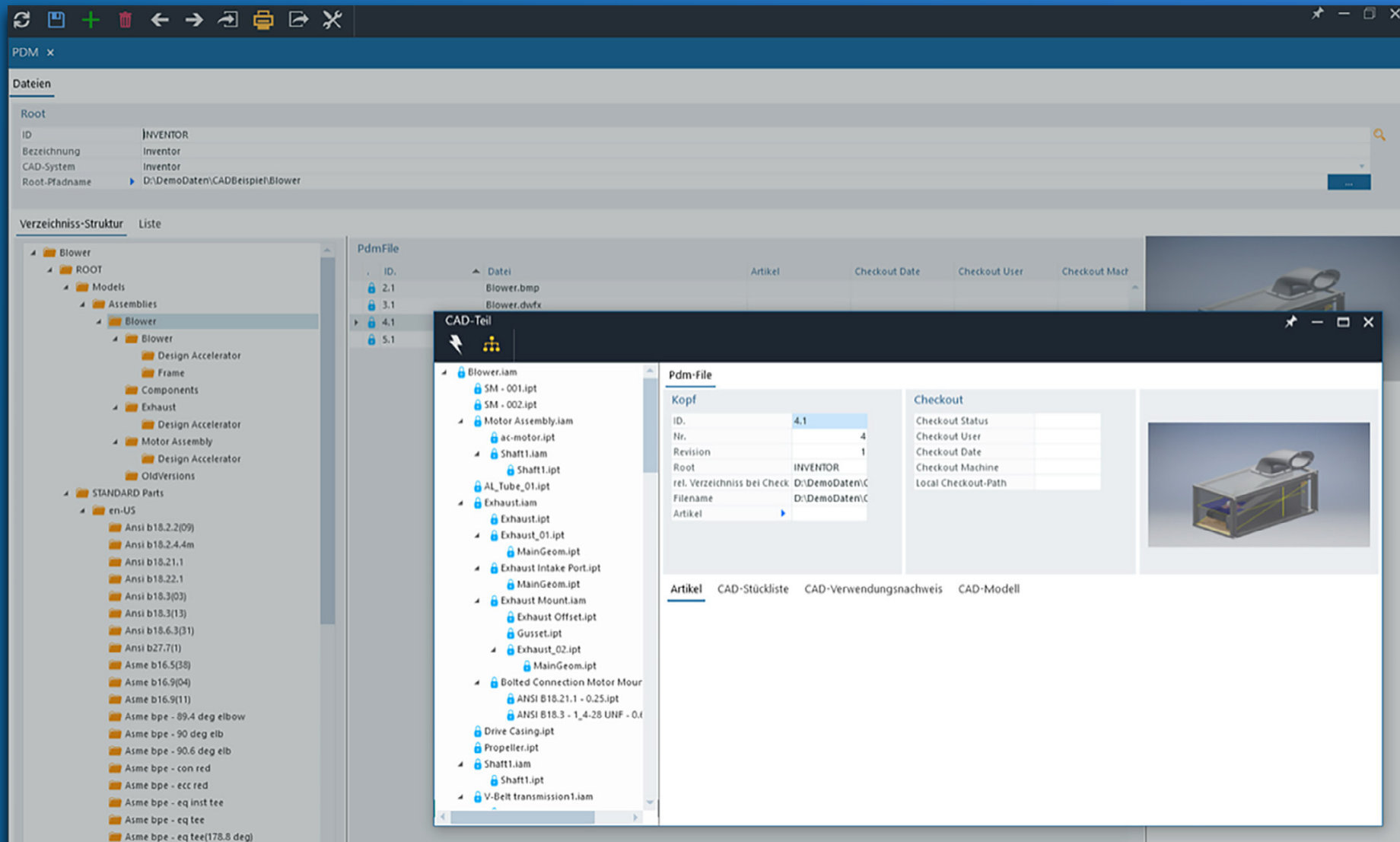
The TimeLine Inventor Plugin creates a seamless connection between CAD and ERP. Engineers can work directly with TimeLine from their familiar Autodesk Inventor environment, without having to switch between systems.

The plugin displays the complete ProjectAssembly structure tree from TimeLine directly within Inventor. All master data can be edited directly within the CAD environment and synchronized with the ERP system. Technical changes, new revisions, or BOM updates are automatically captured and transferred to TimeLine.

The bidirectional communication between the systems guarantees that your data always remains consistent. Engineers maintain a complete overview of their projects and can utilize TimeLine functions without leaving their familiar working environment. This tight integration optimizes the workflow between design, manufacturing, and material planning, minimizing potential sources of error from manual transfers.



## Module: PDM CAD Part



## PRODUCT DATA MANAGEMENT

# Integrated PDM System for Seamless Processes

TimeLine ERP integrates a powerful PDM system directly into your ERP environment. All production-relevant data is managed precisely where it is needed, within your ERP system. Standard adapters for leading CAD systems like Autodesk Inventor, Autodesk Vault, SOLIDWORKS, and EPLAN ensure seamless integration of your engineering department

## Flexible Drawing Management

The TimeLine PDM system adapts to your individual working methods. You have the choice between two management modes for drawing administration: The first mode preserves the familiar workflow of your CAD designers. They continue to work in their accustomed environment, while TimeLine synchronizes data in the background. In the second mode, TimeLine takes over full physical data management. You benefit from audit-proof DMS functionality and deeper integration of CAD data. All dependencies are automatically recognized and integrated into subsequent processes. This flexibility makes TimeLine a strong platform for integrating design and manufacturing. The system adapts to your requirements, not the other way around





## TimeLine Business Solutions Group

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[www.timeline-erp.com](http://www.timeline-erp.com)

## 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.  
Enjoy 90 days of full functionality.

[www.timeline-erp.com](http://www.timeline-erp.com)