



- >TimeLine. The Market-Leading/
- >All-In-One ERP-System For Foundries//

>Functional Overview//

TimeLine-ERP covers all userbusiness-processes for the administration of foundries and casting-companies. This includes not only production related modules like production-planning, production-data-capture and logistics but also the areas of CRM, calculation, purchasing, tool-management and more.

Furthermore TimeLine includes functionality for quality-management and -

control which becomes increasingly important for companies not only in the automotive sector.

As a whole, TimeLine-ERP is probably one of the most functional All-In-One-ERP-System for foundries throughout the world.

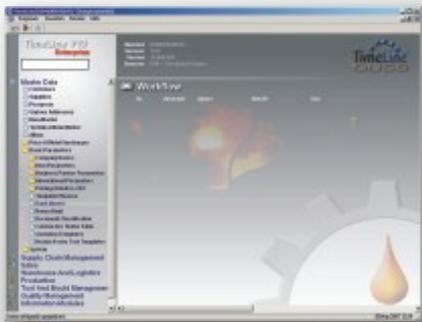
Historically, TimeLine-ERP has been created in close cooperation with a group of foundries and die-casting-companies and still

continues to be improved with a strong focus on user-requirements.

User-friendliness, fast accessibility of data, intuitive ergonomics and transparent menu-structures are some of the most distinctive attributes of TimeLine-ERP.

Best-Of-Breed user interfaces include:

- ➔ Direct access to crosslinked data and modules in all screens
- Consistent keyboard operability
- Seamless integration into Microsoft-Office-Products (Word, Excel, Access, Outlook,...)
- Accelerated full-text search options in all modules
- ...and more!



The TimeLine main Screen



Word-Export for all relevant modules



Blue Arrows will crosslink directly to related master data

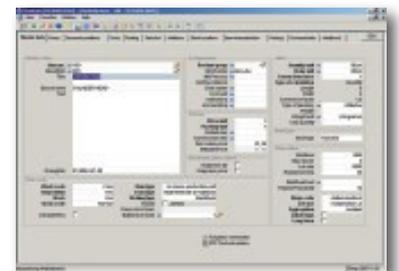
>Item-, Mould- And Tool-Master-Data//

Consistent management of moulds and tools for

- ✓ Single- and multi-cavity-moulds
- ✓ Multi-item-multi-cavity-moulds
- ✓ Composite moulds
- ✓ Tool-component-management
- ✓ Separate management of items and moulds allows flexible assignment of multi-item-multi-cavity moulds within the production-planning system



Multi-stage part list



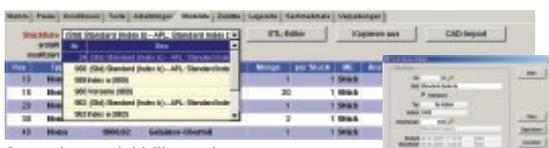
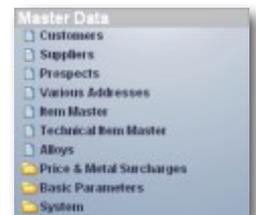
Item-Master-Data



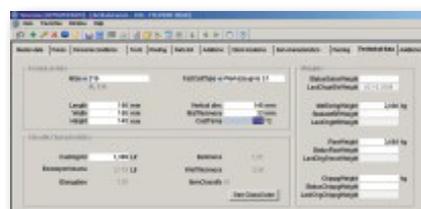
Calculation formulas for dimension product



Several routingplans per item



Several material bills per item



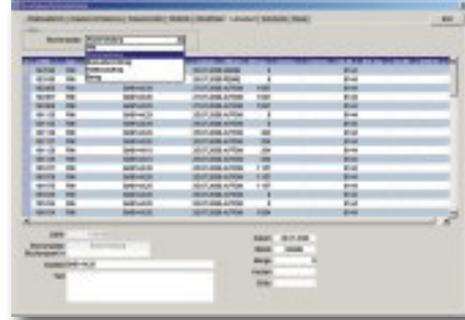
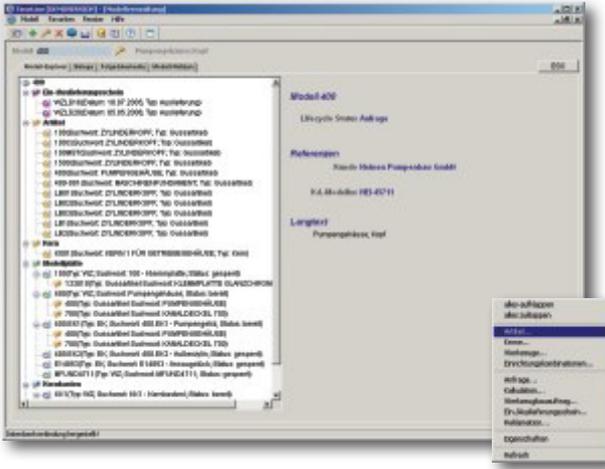
Item master technical data

>Mould-Explorer: Information At A Glance//

✓ Display of all tool-components of an item in a tree-view (moulds, items, core-boxes, trimming-tools, etc.)

✓ Display of all transactional data for the mould (inquiries, quotations, order-confirmations, delivery-notes, claims, toolshop-orders, toolshop-delivery-notes, ...)

✓ Crosslinks to all related modules
 ✓ Document-management for the mould (Excel, Word, CAD-blueprints, fotos, etc.)
 ✓ Management of lifecycle journals, notes and remarks



Tool lifecycle journal

>Sales-Documents And Pricing//

Easy and intuitive:

✓ Documents can be altered at all times, items can be renumbered, inserted or moved

Wide variety of document-types to choose from:

✓ Purchase- and sales contracts, order-calls and orders, partial and collective deliveries, sample-deliveries (free-ofcharge), credit-notes, proforma-invoices, etc.

Flexible Pricing:

✓ Customer/supplier-related prices, quantity-related prices, variable additional price-components and -surcharges (i.e. setup-cost-surcharge, minimum quantity surcharges, etc.) on a percentage-, per piece- or per kg-basis, flexible rebate-system

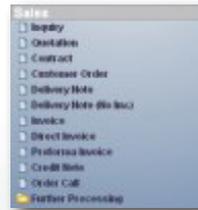
Price Alterations:

✓ Automated pricing alterations with round-option; option for subsequent price-and weight-alterations in existing orders

Accounts of proceeds:

✓ Invoiced turnover can optionally be split variably onto different accounts (i.e. foundry, machining, external manufacturing, etc.)

... print, fax, mail, transfer to word ...



Navigate trough related documents using the document-explorer



Substitutionsplan	Leistung	Preis
32001
32002
32003
32004
32005
32006
32007
32008
32009
32010

Customer specific pricing

Preis	Umsatz	Umsatz	Umsatz
...
...
...
...

...
...
...
...

>Customer Relationship Management (CRM)///

Integrated CRM-cycle:

- ✓ Inquiries, order-calculation, quotations, call-and contact-management, follow-up - all business processes are fully integrated

Customer- and prospect-management:

- ✓ Multiple-addresses, multiple contacts per customer; extensive management of communications-data (fax- and phone-numbers, mail-addresses, etc.) per contact

Activity-management:

- ✓ Management of calls and contacts, workflow-support for follow-ups of calls and quotations, prospect-management

Integrated communications:

- ✉ Integrated mail-client and mail-archive: send your mails directly from TimeLine-ERP
- ✉ Integrated PDF-Generation of all sales- and purchase-documents for direct-email-transmission or archiving-purposes
- ✉ Mail-archive per customer, supplier and prospect
- ✉ Serial-emails, email-campaigns

Integration into MS-Office:

- ☑ Generation of quotations and other documents into MS-Word-documents via customizable templates
- ☑ Excel export-option for all reports
- ☑ Access TimeLine-data from Access or any other ODBC-database, OLAP- or reporting-tool. TimeLine's open-repository-database is freely accessible for any user with sufficient rights

Computer-aided telephony (CAT, TAPI):

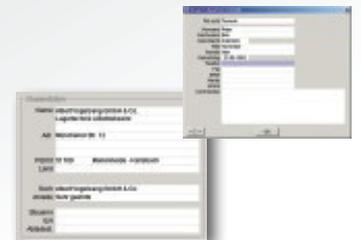
- ✓ Incoming calls: TimeLine pops up the customer info-screen automatically on any identified incoming phone-call
- ✓ Outgoing calls: call your business contacts by simply clicking on the phone-number in the customer-info

Customer-Information Module - comprehensive information at a glance:

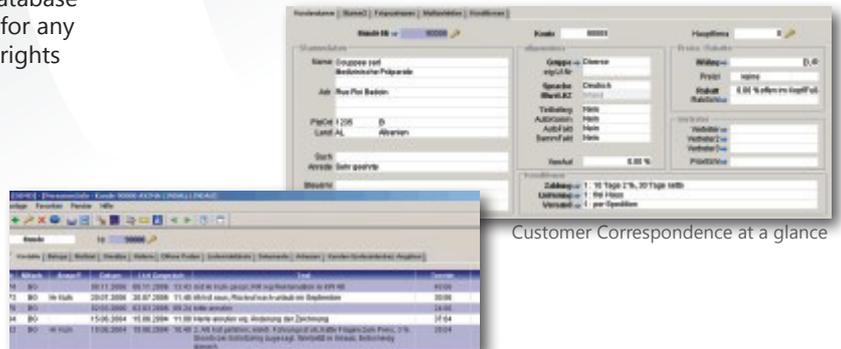
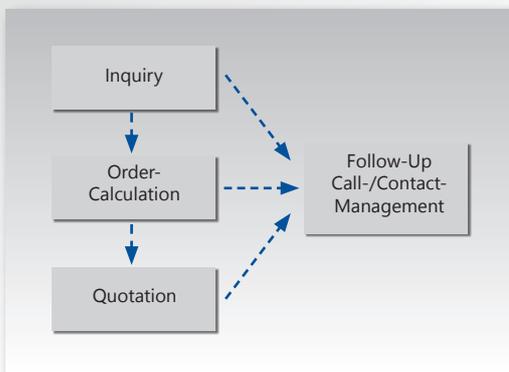
- ✓ Correspondence, outgoing email, contacts, notes, follow-ups, internal and external documents addresses, pricing, historical, data and statistics, accounts receivable, order-backlog, turnover and more...



Inquiries



Customer Correspondence at a glance



>Document Management (DMS)///

Assign any file to almost any object in the ERP-system:

Supported file-formats:

- ✓ Excel, Word, Access, fotos (tif, jpg, etc.), drawings - any file-type that is supported by the software installed on your system can be linked to an object in the ERP-system

Supported objects in

- ✓ TimeLine: customer, supplier, prospect, item, tool/mould, sales- and purchase-documents (quotation, inquiry, order-confirmation, ...), production-documents, etc.



Document management of all common filetypes

>Metal Surcharges And Alloy Contracts//

- ✓ Ultra-flexible metal-surcharge-management system reduces time and efforts for maintenance of alloy surcharges and their adjustment:

Flexible assignment:

- ✓ Define metal-surcharges based on alloys or on alloy-groups and assign them to customers or customer-groups. Thus you reduce the effort of maintaining volatile metal-prices to a minimum

Variable modes of calculation:

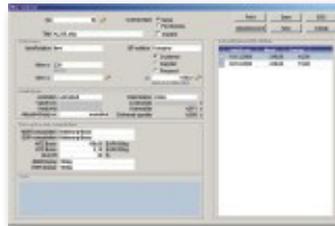
- ✓ Current rate - calculated base
- ✓ EUR/100 kgs (or any other currency)
- ✓ EUR/piece (or any other currency)

Variable quotations on the invoice:

- ✓ EUR/100 kgs (or any other currency)
- ✓ EUR/piece (or any other currency)
- ✓ In total
- ✓ Added into item price

Alloy contracts are comprehensive and universal:

- ✓ Available for sales- and purchase-documents
- ✓ Can be limited to a period of time or a limited tonnage
- ✓ Automated adjustment on a daily, weekly, monthly, quarterly or custom-period basis



Alloy Contracts: All parameters for surcharges in a single screen

Easy adjustment of metal surcharge rates:

- ✓ Select alloy contracts and documents to adjust, enter new metal quotation, start automatic adjustment of alloy contracts, start automatic adjustment of open orders, ...done!
- ✓ Comprehensive journal of metal-quotations before and after
- ✓ History of quotations
- ✓ Optional auto-adjustment of metal quotations at time of delivery (upon delivery-note-creation)

>Supply-Chain-Management / Purchasing//

Flexible disposition with variable purchase-order-types:

- ✓ Purchase-contract



- ✓ Purchase-order
- ✓ Purchase-order-call
- ✓ Material-requirement-requests for production accessories, auxiliary material and spares

Doc	Doc No.	Doc St.	Doc Date	Doc Status	Doc Type
13	500386	FairFragate	1.250	111	1118
20	500386	FairFragate	3.750	0	250
30	490386	FairFragate	2.680	0	250
40	500386	Vorzelka	1.080	0	1808
50	840381	Vorzelka	4.580	0	4908
60	860381	Vorzelka	8.750	0	6758

Integration of various demand-types in a single supply-chain-management-system:

- ✓ Material-requirement-request
- ✓ Direct demands from customer- or production-orders
- ✓ Demands for external contract-manufacturing
- ✓ Automated purchase proposals (MRP-run)
- ✓ Longterm product-range demand-planning

Flexible Price Management:

- ✓ Procurement-directory
- ✓ Supplier-related prices, quantity- and rebate-scales, variable additional price-components and -surcharges (i.e. setup-requests cost-surcharge, minimum quantity surcharges, etc.) on a percentage-, per piece- or per kg-basis, flexible rebate-system
- ✓ Automated price adjustment procedures



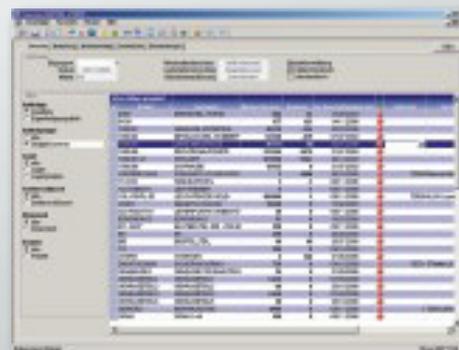
Procurement directory

Automated purchase-procedures:

- ✓ Workflow based compliance check of delivery dates
- ✓ Dunning procedures for unreturned price-inquiries, unconfirmed purchase-orders and delivery-arrears.

Efficient Ergonomics:

- ✓ Direct crosslinks to master data modules from order-processing- and other forms
- ✓ Easy cancellation or modification of orders and transactions at any time
- ✓ Any business-transaction can be processed from within a single form without the necessity to branch into other modules



MRP run

>Materials-Management//

Multi-warehouse-management, management of storage-locations:



- ✓ Management of multiple warehouses (i.e. works, locations, etc.)
- ✓ Management of multiple storage-locations
- ✓ Rejected parts-storage
- ✓ Storage-management for external contract manufacturers
- ✓ Storage-management for consignment warehouses



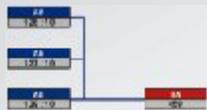
MRP parameters

Material-requirements-planning:

- ✓ Batchsize-optimized purchase- and production-proposals with consideration of deficiency-probability and item-and supplier-related lead-times
- ✓ Optimization of supplier-proposals according to fastest supplier, most favourable price or main supplier



- ✓ Automatic contract recognition and -assignment



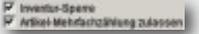
Batch-management/serial number-management:

- ✓ Batch-management across multi-warehouses and multi-storage-locations
- ✓ Batch-retracement (back to the supplier)
- ✓ FIFO-proposals on preparation of consignments

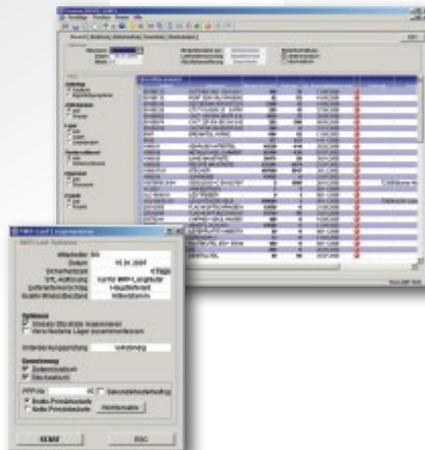


Inventory

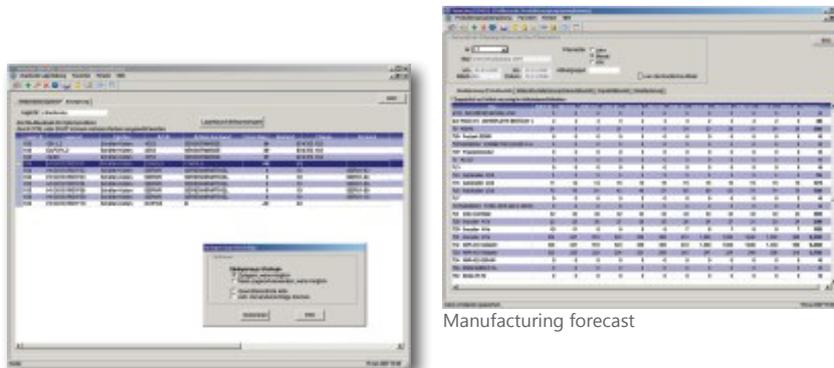
- ✓ Permanent inventory, yearly-inventory
- ✓ Optional blocking of warehouse-transactions while inventory is in progress
- ✓ Evaluation of stocks and half-finished products, automated devaluation of stocks



Inventory-management with handheld-PDAs/scanners



purchase- and production proposals



Manufacturing forecast

>Logistics//

Empties-Management (pallets, lattice-boxes,etc.)

- ✓ Flexible empties-management with automated stockbookings on creation of delivery-notes
- ✓ Customer-specific packing-instructions (typical for the automotive industry)
- ✓ Multi-stage-packing-materials (pallets with plastic-boxes, etc.)
- ✓ Empties requirements planning



Commissioning

- ✓ Commissioning-proposals (with FIFO-option for batches) based on order-priorities and delivery dates
- ✓ Automated delivery note generation from commissioning-proposals
- ✓ One-step generation of delivery-note, empties-bookings, electronic transport declaration and logistics-documents
- ✓ Creation of package labels, consignment notes and related documents

EDI-Modules:

- EDI/DFÜ-modules for Ansi X12-, Odette-, VDA- and Edifact-formats
- ✓ All common message types are preconfigured without necessity for customization (format mappings have to be individually created using the format-converter)



Available message-types:

- ✓ Inbound delivery-forecast, order-call, fine-order-call (delfor, deljit, VDA4905, VDA4915)
- ✓ Outbound delivery-note (delnote, VDA 4913)
- ✓ Outbound invoice (invoic, VDA 4906)
- ✓ Inbound credit-advice (creadv, VDA 4909)
- ✓ Pick-up sheet (DELJITPUS) etc.

Pos.	Zeichn.	La.	Best.	Quant.	Menge	Deliver	Unit
32	2002	0	150,00	5248,00	02,00		
34	2002	0	1900,00	3100,00	0		
49	2002	0	420	210,00	0		
50	2002	0	400,00	0	0		
2	2002	0	840,00	840,00	0		
6	2002	0	500,00	0	0		

Customs-documents:

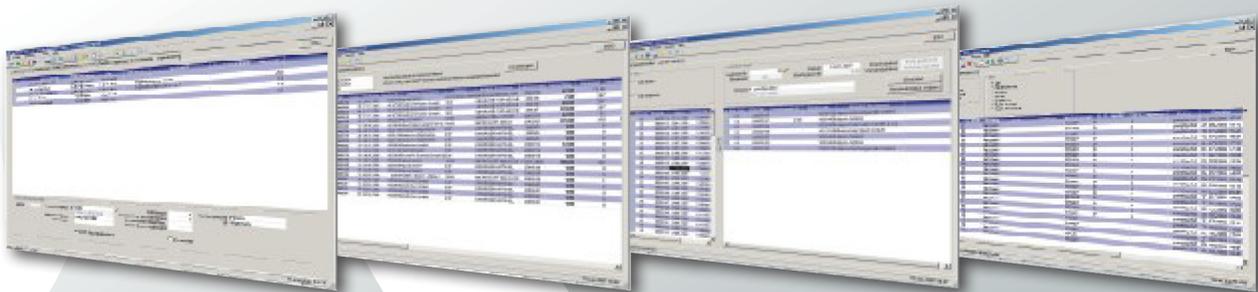
- ✓ Creation of EUR.1, ATR and export-declarations (certain documents may vary for non-EU-countries and may need customization)

Packaging in the delivery

VDA consignment bill

VDA package label

EDI-Document of accompanying goods



>Production-Orders And >Planned-Production-Orders//

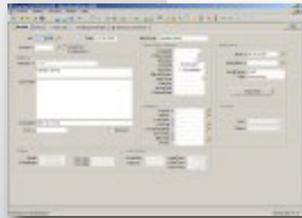
The Production-Order is the central document within the production-module of TimeLine-ERP. Its main elements are routing-plan and parts-list.

Creation of Production orders:

- ✓ Production orders can be created manually, via transfer from a customer order or via release of a production-proposal

Planned production orders. More freedom to plan:

- ✓ Planned production orders allow the reservation of capacity and material without actually releasing a production-order for production. At this stage alterations like split, deferral, re-schedule and merge are possible without significant restrictions



Production order

Release for production:

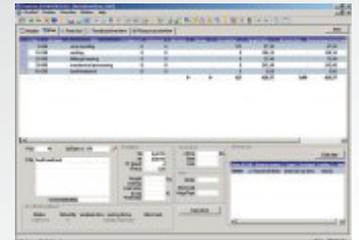
- ✓ Planned production orders can be converted to released production orders at the push of a button

Production documents:

- ✓ Easy and efficient printing of routing plans, production orders, part lists. Report design is free and can be done using PowerBuilder, Crystal Reports or any other ODBC-enabled reporting-tool

Circulation of items in production:

- ✓ Items in production are managed like stocks. Each production-data feedback carries forward the production-quantities within the routing-plan. A distinction is drawn between good parts, blocked parts and rejects

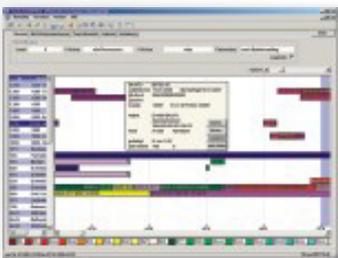


Circulation quantities overview

>Planning and Scheduling//

TimeLine features four graphical planning boards which integrate fully into the materials management and sales modules. Thus, TimeLine represents one of the most comprehensive planning tools for foundries in the market.

Whether moulding shop, core production, die casting or machining - TimeLine offers unparalleled ease-of-use, effectiveness and precision of production-planning:



Planning board II offers efficient automated computation of delivery dates for open customer orders based on finite capacity, parallel resource usage (mould & machine) and material availability. Short-termin capacity adjustments, change of order-priorities, resource breakdowns and consideration of recent production data feedback will keep planning up-to-date and in sync with factory floor reality.

It is strongly recommended to use Planning board II in combination with TimeLine-production-dataacquisition-modules to keep information up-to-date on realtime basis

Reliable delivery-date ascertainment:

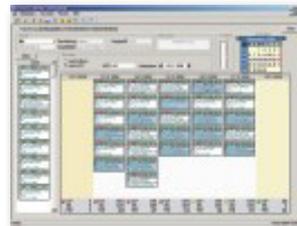
- ✓ Finite capacity planning considers current capacity load and material-availability when computing new delivery dates
- ✓ Production data automatically feeds back into planning
- ✓ „Update“-function allows to recalculate all completion dates based on fresh data

Fully integrated:

- ✓ Transfer customer orders directly into the inbox of the planning board
- ✓ Drag & drop customer orders directly onto the machine at the desired date
- ✓ Automated feedback of planned dates to the sales department

Quickly implemented:

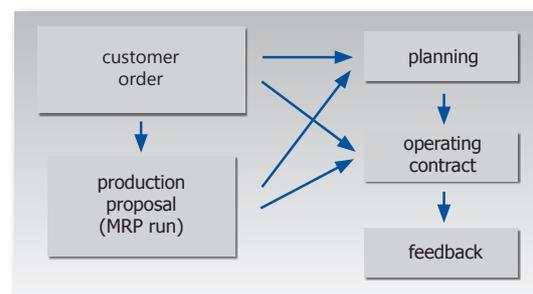
- ✓ Define resources,
- ✓ Create routing-plans for your items,
- ✓ Enter your customer orders
- ✓ ...and start to plan!



Planning board III allows for quick and efficient fine-planning of the order sequence on individual machines and production resources. Planning is as easy as dropping an order onto a machine at the desired production date. PB3 has been designed for quick implementation and maximum ease-of-use. PB3 should be your first choice when planning your moulding-, casting-, core production- and machining-department.

Powerful, comprehensive and efficient planning-tools:

- ✓ Split, merge, defer, move (backward/forward), set order-priorities, adjust capacity, assign to external contractor, swap resources/machines, simulate on a separate planning-level - there is virtually no limit as to what you can do in the planning-modules.
- ✓ Forward and backward planning, lead time and manual scheduling
- ✓ Machine order-sequence planning via drag & drop
- ✓ Comparison before-after, pending delays, delivery date diagram, capacity load diagram



Customer orders can be directly transferred to a production order. Alternatively, customer orders can be transferred to planning first to be subsequently released as a production order. For serial and mass production, order calls and production orders can first be run through the mpr run for batch size optimization and then transferred to planning.

>Contract Manufacturing,/ >External Manufacturing//

Integrated workflow within purchasing and production:

- ✓ Comprehensive business flow from inquiry to dunning and invoicing of contract manufacturers
- ✓ Define external operations simply by specifying an external resource in the routing item
- ✓ Create external routing bills directly from the production order module or combine several items from different production orders onto a single external routing bill
- ✓ Quick and efficient feedback process for goods returning from external manufacturing

Securing deliveries and schedules:

- ✓ Automated creation of production previews allows more precise planning on the side of your contract manufacturers
- ✓ Planning modules will automatically compute dispatch- and return-dates for external routing bills
- ✓ Automated dunning system for delayed returns from external manufacturing

Pricing effectively managed:

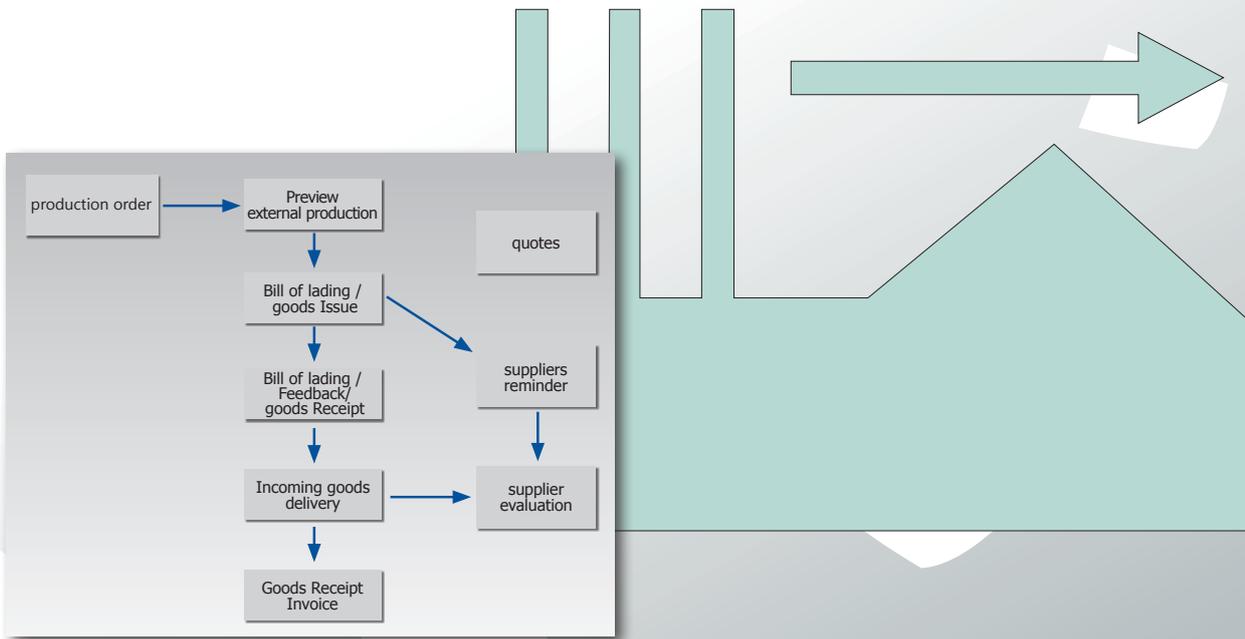
- ✓ Supplier- and item-related prices and quantity scales for every external operation
Separate management for setup costs or other surcharges (freight, etc.)
Prices on per-piece, per-kg or per-hour-basis

1200000000	1200000000	1200000000	1200000000	1200000000	1200000000
------------	------------	------------	------------	------------	------------

Warenbegleitschein			
Material	Plant	Quantity	Material
1200000000	1200000000	1200000000	1200000000

Item	Description	Quantity	Plant	Material	Material
1200000000	KLIMMPLATTE GUERCHROCKPFEIL	300	1200000000	1200000000	05.04.2005
200141812	KURZFLANGGEBÄUDE	350	1200000000	1200000000	22.12.2004
200141812-L	KURZFLANGGEBÄUDE FERTIG BKA	350	1200000000	1200000000	22.12.2004
1800	HOCHWÄLLE	350	1200000000	1200000000	08.12.2005
000	PUMPEGEHÄUSE	350	1200000000	1200000000	06.04.2005

Item	Description	Quantity	Plant	Material	Material
1200000000	KLIMMPLATTE GUERCHROCKPFEIL	300	1200000000	1200000000	05.04.2005
200141812	KURZFLANGGEBÄUDE	350	1200000000	1200000000	22.12.2004
200141812-L	KURZFLANGGEBÄUDE FERTIG BKA	350	1200000000	1200000000	22.12.2004
1800	HOCHWÄLLE	350	1200000000	1200000000	08.12.2005
000	PUMPEGEHÄUSE	350	1200000000	1200000000	06.04.2005



>Project-Management For Mould/ >Design And Construction//

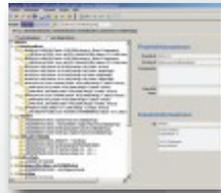
Information at a glance:
TimeLine project-explorer:

Internal documents:

- ✓ All documents are shown in a tree-view structure

External documents:

- ✓ Assign all kinds of files and documents to your project



Milestones:

- ✓ Budgets, deadlines, estimated hours of production: everything you need to manage the lifecycle of a new mould

Invoice processing:

- ✓ Advance payment invoices, closing invoice/account settlement

>Production Data Feedback: / >Simple And Efficient//

PDF-types:

- ✓ Single- or collective bookings; operations- and material-consumption bookings; bookings can be entered via PC or via TimeLine-production- or machine-data-capture-systems

Product costing analysis:

- ✓ Feedback data on factory operations can be used for product costing analysis based on actual costs

Casting batch systems management:

- ✓ Assignment of casting batch number to customer-/production order on entering moulding-department feedback data



Production statistics:

- ✓ Various statistics on quantities and tonnage; defective part statistics, etc.

Incentive wages:

- ✓ Piece rate- and premium-wage-management; wage-related data can be entered together with operations feedback in a single step

Material	Quantity	Weight	Value
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000
1000 Stahlblech	2.000	2.000	2.000

>Quality Management//

Gauges and test equipment:

- ✓ Gauge-status, serial-number, storage location and other information
- ✓ Monitoring, calibration and maintenance
- ✓ Blocking and release
- ✓ Gauge history
- ✓ Gauge-issues, trackings and returns

Control plans: integrated quality control:

- ✓ Definition of quality attributes
- ✓ Control plan management with definition of item- and attribute-specific tolerance limits
- ✓ Automated generation of quality- and inspection orders

Quality order monitoring:

- ✓ Quality order monitor shows all open quality orders with a direct crosslink to enter quality data (Version 11)

Data logging of quality and measurement data:

- ✓ Data logging of SPC-measurement data
- ✓ Creation of measurement reports (Version 11)

Inspection orders for:

- ✓ Inbound deliveries (Version 11)
- ✓ Factory operations
- ✓ Factory turnout
- ✓ Definition of item-specific control plans
- ✓ Automated generation of inspection orders

Claims management:

- ✓ Activity monitoring
- ✓ 8D-reports
- ✓ Failure cost ascertainment
- ✓ Workflow-support
- ✓ Dunning system for delayed recovery activities

Supplier assessment:

- ✓ Rating for delivery reliability, customer care, product quality, pricing, etc.
- ✓ ABC-rating for suppliers

Management of rejects and rework:

- ✓ Stock management of rejects and reworks
- ✓ Rejects statistics
- ✓ Failure cost statistics

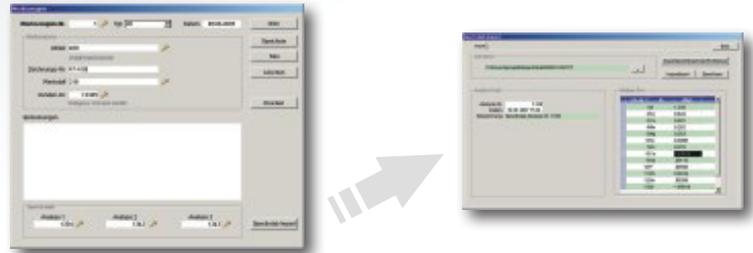


8D-Report	
Problem:	...
Containment:	...
Root Cause:	...
Corrective Action:	...
Preventive Action:	...
Verification:	...
Follow-up:	...

8D-Report

>Factory Certificates, Spectro-Analysis//

- ✓ Import of Spectrolab-data
- ✓ Creation of factory certificates
- ✓ Assignment of factory certificates to production orders or delivery notes for traceability



>Rework, Quarantine Storage And Rejects//

Rejects and rework:

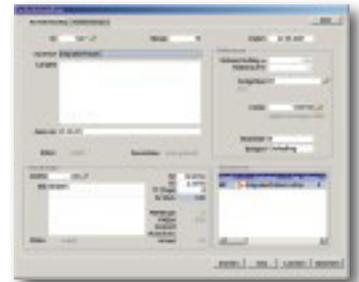
- ✓ Rejects and rework can be separately booked alongside with approved parts/quantities

Statistics on cause of defects:

- ✓ Management of cause of defects and statistics on defective parts

Rework orders:

- ✓ Rework production orders allow for comprehensive management and data capture of costs for rework operations; additional textfields in feedback bookings allow for statements and comments on rework.

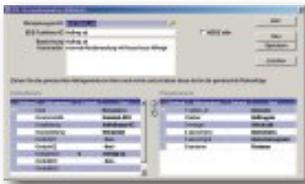


Rework order

>Production- And Machine Data Capture//

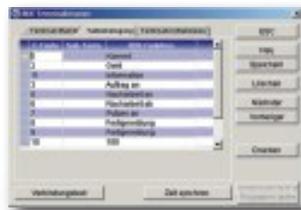
Intelligent terminals - flexible software:

- ✓ TimeLine-BDE is based on industrial PC-technology with IP65-Standard or standard commercial PC-hardware
- ✓ Online bookings for maximum up-to-dateness of data



Flexibility of configuration:

- ✓ User-configurable booking types: Using the Booking-configurations editor you can define which data shall be captured during PDC-bookings
- ✓ Any custom booking type can be assigned to any function key on the terminal screen

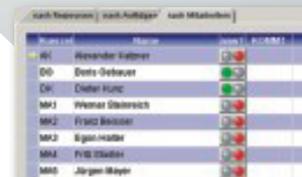


Pre-configured booking types for a wide variety of business cases:

- ✓ Clocking on/off
- ✓ Come, go
- ✓ Order-complete-booking
- ✓ Info
- ✓ Material consumption booking
- ✓ Rework
- ✓ Project feedback (no production order required; you can book directly onto the project)
- ✓ Overhead-cost booking
- ✓ Collective booking
- ✓ Service-booking
- ✓ Breakdown/disturbance/interruption
- ✓ Change of order
- ✓ Quantity report

Integrated machine data capture:

- ✓ Direct interface for quantity-data capture and production-operations turnout
- ✓ Ressource monitor shows number of casting/production-cycles, remaining production time, disturbances and downtime



Attendance overview

>Calculation//

With two separate modules
 - one specifically for die-casting (nonferrous metals)
 - the other specifically for sand casting (iron, steel)
 TimeLine offers a comprehensive calculation tool for order costing, precalculation and product costing analysis based on technical data.

Calculation results can be directly transferred into quotations - thus offering a fully integrated module.

Item	Quantity	Unit Price	Total Cost
...
...
...

Various selectable costing elements:

- ✓ Melting costs
- ✓ Tooling/mould costs
- ✓ Machining costs
- ✓ Core production costs
- ✓ Cleaning/fettling costs
- ✓ Quality- and certification costs
- ✓ Costs of external manufacturing
- ✓ Costs for assembly component,
- ✓ Freight, insurance, transportation
- ✓ etc.

Flexible yet comprehensive:

- ✓ Full cost and break-even-analysis
- ✓ Several resource-related hourly rates
- ✓ Editable surcharge schema
- ✓ Calculation history
- ✓ Separate management of casting-weight, alloy-surcharge weight, sales-weight and circulation-weight
- ✓ Flask-volume computation (automated deduction of core-, circulation- and casting-volumes)
- ✓ Item-independent calculation during inquiry-stage
- ✓ Assignment of external documents (Excel, drawings, PDFs, etc.) to each calculation
- ✓ Definition of item-classification profiles

All calculation types covered:

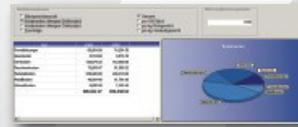
- ✓ Precalculation
- ✓ Postcalculation
- ✓ Product costing

Quick and efficient:

- ✓ Calculation templates for accelerated calculation
- ✓ Calculation of quantity scales in one step
- ✓ Parallel computation of per-piece and per-kg-prices, manufacturing-costs, break-even, profit and contribution margin
- ✓ Cost structure analysis based on custom cost types
- ✓ Volume-to-weight computation via alloy-specific weight
- ✓ Automated computation of costs for defects based on defects-probability (in percent)

Separate computation for sand cores:

- ✓ Quick and efficient calculation of core-costs



- ✓ Cores can be transferred to become items of their own

Tooling and mould costs:

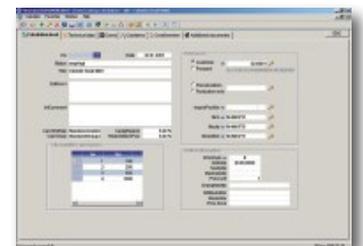
- ✓ Separate tooling cost computation based on bill of material and tool shop operations

Item	Quantity	Unit Price	Total Cost
...
...
...

- ✓ Dynamic allocation of mould costs to items based on durability of tools and moulds

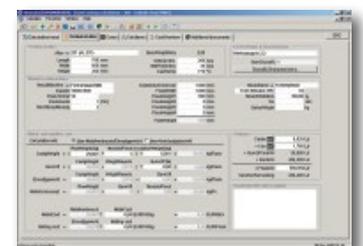
Fully integrated:

- ✓ Optional update of prices in item master
- ✓ Optional transferral to generate a quotation
- ✓ Optional creation of item master
- ✓ Optional creation of mould master
- ✓ Optional creation of project master



Post calculation

- ✓ Post calculation based on technical data (casting and mould-data, weights, etc.)
- ✓ Post calculation based on actual product costing analysis from production data feedback

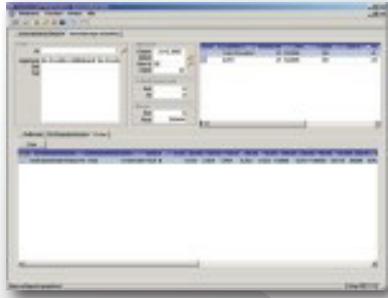


>Smelter//

- ✓ Management of melting resources
- ✓ Alloy compositions, alternate alloy compositions

- ✓ Import of spectrometric analysis data to create factory certifications

- ✓ Creation of logical interconnection between smelter-batch and cast item on entering cast production data feedback



>Unparalleled Flexibility Of Customization/ >For Individual Business Processes//

Reporting:

- ✓ Create your own reports using any OLAP- or ODBC-tool. Standard reports are delivered in source code for easy modification.

Database:

- ✓ Fast, reliable and maintenance-free SQL-database with 100 % ODBC/OleDB-compliance

TimeLine ERP can be customized without losing release-capability!

Screens:

- ✓ Screen editor to disable, relabel or add fields

Business objects framework:

- ✓ TimeLine ERP is based on a comprehensive and powerful framework of business-objects that can be individually modified using OO-technology

>System Checklists//

CRM and materials management modules:

- ✓ Order calls (automotive), CRM, MS-Word interface, random storage management, batch management, electronic data interchange (EDI), financial accounting interface, document management, inventory, empties management, multi-warehouse management, open items management, item classification, serial number management, dispatch and transport logistics, sales agents management, sales forecast, customs documents management

Quality management modules

- ✓ Supplier rating/ assessment, control plan management, gauge management, claims management

System modules

- ✓ Foreign language interface, MIS-toolkit, TimeLine-to-TimeLinelink, archiving interface (ELO, Easy)

User rights management

- ✓ Flexible definition of access rights and restrictions based on screen, tab or modules; separate access rights for visualization of purchase and sales prices, etc.

Menus

- ✓ Menu Editor for custom configuration of menus, user defined menus, custom menu items/modules

Application-Server

- ✓ Application server for batch processes and night operations like recomputation of planning data, MRP-run, generation of workflows, follow-ups, etc.

Multi client/ multi works

- ✓ Management of several companies, locations or works in either one database or separate databases; intercompany clearing (Version 11)

Production modules

- ✓ External manufacturing, project management, production planning and scheduling, tool management

Data capture modules

- ✓ Mobile data capture (PDA), production data capture, machine data capture

Utilities and tools

- ✓ Search and elimination of duplicate customers, items, etc., SQL-makro editor, import and export of data, subsequent modification of primary keys for items, customers, etc.

Multi-language reporting

- ✓ All sales and purchase documents are multilingual

>Interfaces and operating systems//

Operating systems (server)

- ✓ Linux, MS-Windows

Integration to MS-Office

- ✓ Word, Excel, Access, Outlook

EDI - Formats

- ✓ UN-EDIFACT, ANSI X12, Odette, VDA

Features

- ✓ Integrated format converter; direct storage of EDI-data inside the ERP-database

System interfaces

- ✓ MAPI, TAPI
- ✓ ODBC, SQL

Archiving interfaces

- ✓ ELO, Easy-Archive

Document types

- ✓ Order call, fine order call, delivery note, invoice, credit advice

Terminal-Server

- ✓ Citrix and Windows Terminalserver enabled

Financial accounting interfaces

- ✓ Interfaces to virtually any financial accounting system can be customized with an effort of approximately 5 programming days

Interfaces for quality management systems

- ✓ Böhme & Weihs, BABTEC



TimeLine® Business Systems

40 years of history - more than 400 customers - one goal: to become the market-leading ERP system for foundries and die-casting companies

