



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

TIMELINE ERP

Casting & Foundry

Built for foundries – pragmatic, efficient, affordable

VERSION 16

Foundries operate under pressure – heat, precision, and scarce resources. We deliver software that meets these demands.

Welcome to TimeLine Foundry & Casting!

For over 30 years, foundries have been trusting TimeLine. We understand the cycles and dies of die casting as well as the patterns, melts, and moulding lines in sand and permanent mould casting. We live and breathe casting – and digitally, efficiently, and seamlessly map your production from raw metal to ready-to-install component.

What makes us an industry expert

- **Specialization:** We speak the language of the foundry industry – from metal or energy surcharges and alloy specifications to tool lifecycles.
- **Practical relevance:** Developed in cooperation with real foundries, based on actual moulding, melting, and casting processes.
- **End-to-End Solution:** From alloy contract through melting operation and moulding line planning to QA – all in one system.
- **Transparency & Security:** Clear metal costs, audit-proof documentation, traceable batches.
- **Experience:** Decades of industrial ERP expertise – bundled for one of the most demanding manufacturing industries.

6 Reasons

WHY EVERY FOUNDRY NEEDS TIMELINE

1 Metal prices under control – metal/energy surcharges automated

Volatile metal prices cause enormous risks. TimeLine centrally manages metal and energy surcharges, adjusts automatically, and documents every change in price transparently.

2 Precise cost evaluation instead of gut feel

The casting calculation puts in account metal input, melting loss, scrap, sprue weight, machine and mould costs – realistic, traceable, and automatic.

3 Melting operation with real production data

Booking batches, recording taps, calculating melt weights, controlling material consumption – completely digital and traceable within the ERP.

4 Tools and Patterns always at hand

Lifecycles, repairs, shot counts, deployments: TimeLine ERP comprehensively manages pattern plates, core boxes, and dies completely and clearly.

5 Planning moulding systems efficiently

Programs, shifts, takt times – TimeLine plans moulding lines product-specifically and intelligently distributes quantities across defined shifts.

6 Complete Traceability

From alloy batch to melting to the finished piece: Every batch, every sample, every step is being documented – audit proof and verified by customers.



FROM MELTING FURNACE TO THE FINAL CAST COMPONENT:
CLARITY IN EVERY PHASE

The ERP solution for foundries

Volatile metal prices, complex gating, energy-intensive melting processes, and stringent quality requirements are the day-to-day business for modern foundries. With TimeLine Foundry, these challenges become manageable through precise calculation, transparent mould and melting plant planning, comprehensive tool management, and seamless retraceability.

An industry solution specifically developed for die casting, sand casting, and permanent mould foundries that seamlessly maps your entire process from melt to the final casting piece.

Key Highlights of the TimeLine Foundry Package



MSR/ESR/TSR Management

Centrally managed metal price contracts ensure automatic, transparent, and error free control.



Casting Calculation

Produce realistic casting costs based on metal input, scrap, mould, and machine parameters.



Tool and Pattern Management

Keep model plates, moulds, core boxes and their lifecycles fully under control.



Melting Shop Module

Digitally plan and document batches, melts, tapping operations, and material consumption.



Maintenance

Efficiently manage maintenance schedules, intervals, and spare parts for all your plants, furnaces, and moulding machines.



Gating

Precisely define and trace recipes, alloys, and their variants.



Moulding Plant Planning

Strategically plan programs, shifts, and cycle times to ensure optimal throughput.



Multi-stage Resource Planning

Gain a structured overview of all manufacturing and inspection resources.

MODULE: METAL & ENERGY SURCHARGE MANAGEMENT

TimeLine

Artikel 6000 (PUMPENGEHÄU... x)

Stammdaten Zusätze Preise Konditionen Arbeitsplan Stückliste Lagergruppen Lebenslauf DMS / Mails Struktur Technische Merkmale

Zuordnung
 Einkaufspreise Verkaufspreise Bearbeiterpreise EK Bearbeiterpreise VK

Info
 Mengeneinheit: Stück
 Preiseinheit: 1,000

Geschäftspartner	Nummer	Suchwort	GP Art.Nr.	Mengeneinheit	Preis	Rabatt	Währung
Kunde	1000400	Apura GmbH	r232323432	Stück	5,62		Euro
Kunde	1023000	B. und W. Schmidt GmbH & Co.KG	342342	Stück	5,11		Euro
Kunde	90000	AXIMA UNTERNAHMER		Stück	15,00	0,00 %	Euro

Metallenergiezuschläge

Stammdaten
 Nr.: 1
 Bezeichnung: AL239 für Apura

Bezug
 Werkstoff: AL239

Begrenzungen
 Buchungzeitpunkt: Lieferung
 Limitierung: zeitlich
 Umstellgruppe: monatlich

Berechnung

Währung		Euro
MTZ Basis [Euro/100kg]		101,00
MTZ Notierung [Euro/100kg]		223,00
Abbrand		15,00 %

Text Historie Verwendungsachweis

Notierung	Änderungsdatum
223,00	02.04.2025
222,00	07.01.2025
444,00	28.11.2024

OK ESC

Geschäftspartner
 GP, Typ: Kunde
 Kunde: 1000400
 Apura GmbH
 Währung: EUR

Zusatzinformationen
 Sach-Nr. GP: r232323432
 Zeichnungs-ID GP: +

Kommentar

Info Center

Geno 15 (liba)

METAL AND ENERGY SURCHARGE MANAGEMENT

Automated Metal and Energy Surcharge Control for Purchasing and Sales Operations

TimeLine Foundry's metal and energy surcharge management solution provides a central and highly structured framework for all surcharge agreements. Whether alloy specific, material specific, or customer tailored: Surcharge conditions can be created, flexibly assigned, and fully parameterized to meet your exact needs.

TimeLine ERP supports all common calculation variants, ranging from quotation and base pricing to EUR/100 kg or EUR/piece. Furthermore, various display formats for document printing are available, including transparent fixed surcharges, totalized amounts, or values embedded within the base price.

Through freely definable adjustment groups (daily, weekly, monthly, quarterly) and time- or quantity-based limitations, the underlying pricing logic stays highly flexible.

All modifications are automatically applied to open orders, call-offs, and master data records, with each step documented in a detailed adjustment log. This functionality establishes a transparent and reliable foundation for precise calculation, efficient purchasing, and strategic sales, eliminating the need for error-prone Excel spreadsheets and reducing operational risks.



YOUR BENEFITS AT A GLANCE

Simplified creation and comprehensive management of metal and energy surcharge conditions for alloys, materials, and individual customers

- Full support for all common calculation models (Quotation/Base, EUR/100 kg, EUR/piece)
- Flexible document print display options: EUR/100 kg, EUR/piece, totalized, or embedded in the base price
- Precise limitation by defined periods or specific tonnages for maximum accuracy
- Freely definable adjustment groups (daily, weekly, monthly, quarterly) for dynamic pricing
- Automatic adjustment of prices, open orders, call-offs, and master data
- Detailed history and adjustment log for full auditability and process security

CASTING CALCULATION

Precise Casting Cost Calculation for Foundries

The core Foundry functionality within TimeLine ERP

COMPLEXITY UNITED IN ONE MODULE

TimeLine Foundry's casting calculation is based on a cost logic specifically developed for foundries and reliably considers all relevant factors in a transparent manner.

Metal, melting, mould, and machine costs are precisely determined – regardless of whether die casting, sand casting, or permanent mold casting machines are used.

Metal costs are based on actual metal usage, while melting costs are calculated from the complete melting weight, including scrap, sprue weight, and melting loss.

This creates a precise and realistic basis for quotation and production calculation, making manual Spreadsheets obsolete and reliably supporting margin security.



YOUR ADVANTAGES AT A GLANCE

- Foundry-specific cost formula optimized for die, sand, and permanent mold casting
- Exact metal, melting, and machine costs based on actual consumption and process data
- Automatic consideration of scrap, melting loss, and sprue proportions
- High calculation accuracy as a basis for reliable quotations and realistic production planning
- Seamless integration into metal and energy surcharges, purchasing, sales, and melting operations
- Transparent traceability of all calculation parameters and cost drivers

MODLUE: CASTING CALCULATION

TimeLine Vorkalkulation 873 (Artikel - 1... x)

Kopf Technische Merkmale Positionen Zuschlagspositionen Übersicht DMS / Mails

Navigation

Kosten Übersicht

Kosten pro Stück Gesamt

Mengenstaffel										
Nr	Menge	HK	SK	VK	Brutto	VK-Preis	DB1	DB2	Gewinn	
1	1,000	1.152,60	1.629,49	2.036,86	2.036,86	2.036,86	1.447,30	884,25	407,37	
2	2,000	620,61	877,38	1.096,73	1.096,73	1.096,73	773,45	476,12	219,35	
3	5,000	301,41	426,12	532,65	532,65	532,65	369,14	231,24	106,53	

Mengenstaffel Legende	
HK	Herstellkosten (HQ)
SK	Selbstkosten (SK = SQ)
VK	VK-Preis (SK + S1)
Brutto	Brutto (VK + S2)
VK-Preis	Vorschlag-VK-Preis (Brutto + S3)
DB1	Deckungsbeitrag 1
DB2	Deckungsbeitrag 2
Gewinn	Gewinn

Rüst- und Einmalkosten

Typ	Kostenart	Bezeichnung	Kosten
Rüstkosten	MASCH	Maschinenkosten	426,65
Rüstkosten	MITARB	Lohnkosten	3,74
Einmalkosten	WZ	Werkzeugkosten	25.000,00
			25.428,39

Kostenarten per Stck.

ID	Bezeichnung	Teikko	Vollko
MASCH	Maschinenkosten	546,90	1.093,80
MITARB	Lohnkosten	3,87	6,59
XTF	Fremdleistungen	0,00	0,00
MAT	Materialkosten	36,40	51,94
WZ	Werkzeugkosten	0,00	0,00
ENERG	Energiekosten	0,38	0,38

Vollkosten Übersicht

Kostenarten	Prozent
ENERG	0%
MASCH	95%
MAT	2%
WZ	1%
XTf	0%

Metall- und Schmelzcostenkalkulation

Schussgewicht = $(\frac{1.800}{1.800} + \frac{0,337}{1.800} \cdot 2) \cdot 1.500 = 5.100$ [/ Schuss]

Ausschussgewicht = $(\frac{5.100}{1.800} + 10,25\%) \cdot 1.800 = 0.523$ [/ Schuss]

Unwied. Verlust = $(\frac{5.100}{5.100} + 0,523 \cdot 6,00\%) \cdot 1.800 = 0.337$ [/ Schuss]

Metallverbrauch = $1.800 - (\frac{0,337}{1.800} \cdot 1.800 \cdot 2) = 1.969$ [/ PreisEinh.]

Metallkosten = $1.969 \cdot 100,00 \text{ Euro} / 100 \text{ kg} = 1,97 \text{ Euro}$ [/ PreisEinh.]

Einsatzgewicht = $(\frac{5.100}{1.800} + 0,523 + \frac{0,337}{1.800} \cdot 2) \cdot 1.800 = 2.980$ [/ PreisEinh.]

Schmelzcosten = $2.980 \cdot 12,80 \text{ Euro} / 100 \text{ kg} = 0,38 \text{ Euro}$ [/ PreisEinh.]

MODULE: TOOL & PATTERN MANAGEMENT

Timeline

Werkzeug WP-2025-014 x

Menü | **Werkzeugstamm** | Angaben zur Ressource | Lebenslauf | Koppelprodukte | DMS | Struktur

Stamm	WP-2025-014
ID	WP-2025-014
Typ	<input checked="" type="radio"/> Werkzeug <input type="radio"/> Werkzeug-Set <input type="radio"/> Werkzeug-Template
Bezeichnung	Modellplatte GPX-400
Text	Diese Modellplatte wird für die Herstellung des Aluminium-Gehäuseteils GPX-400 verwendet. Das Werkzeug besteht aus einer hochfesten Polyurethan-Modellplatte mit Aluminiumverstärkung. Es eignet sich für Serien- und Kleinserienfertigung. Die Plattenhaltungen sind präzisionsgefertigt und weisen eine Maßhaltigkeit von ±0,2 mm auf. Das Werkzeug ist für den Einsatz auf Formanlage Typ Omega 45 freigegeben.
Suchwort	WP-2025-014 - MODELLPLATTE GPX-400
Artikel	
WZ-Kosten	180,00
Zeichnungs-ID	▶ 485521a
Projekt-ID	▶ TL4711
Kalk.-Satz-Bezug	In Stück (bzw. ME)

GP-Angabe	90000
Kunde	▶ 90000
Hersteller	<input checked="" type="radio"/> AXIMA LINDAU; LINDAU <input type="radio"/> eigener Werkzeugbau <input type="radio"/> Kunde <input type="radio"/> Lieferant <input type="radio"/> Interessent
Eigentümer	<input checked="" type="radio"/> Eigentum <input type="radio"/> Kunde <input type="radio"/> Lieferant <input type="radio"/> Interessent
Lager	
Lagerort	Modellager
Akt. Lagerort	Reihe 1 Fach 47
Status	
Status	bereit
WFL Status	▶
Freigabetermin	
Instandhaltung	
ID	▶
Bezeichnung	
Status	

Technische Angaben	
Lagervolumen	
Gewicht [kg]	14,800
Werkzeug-Klasse	▶ MP Modellplatte
Schussgewicht [kg]	
Anguss [kg]	
Zykluszeit [Sek]	

Foto


(1/1)

Info Center

demo 10 | (obj)

TOOL & PATTERN MANAGEMENT

Full Transparency Across Your Foundry Processes

Central tool and pattern management in TimeLine Foundry

GAIN CLEAR INSIGHTS – SECURELY MANAGE TOOLS

TimeLine Foundry's tool and pattern management offers a complete overview of all tools relevant to foundry operations, including pattern plates, core boxes, dies, jigs, and templates.

Industry-specific fields such as shot weight, sprue weight, cycle time, usage history, and lifecycles ensure that every tool remains traceable from its initial use to its final revision.

The integrated project tree (Model Painter) structures and intuitively displays all associated components.

This allows you to see the status of a tool, maintenance dues, and how it is utilized in ongoing projects at a glance.

The result: maximum visibility, reduced downtime, and reliable predictability.



YOUR ADVANTAGES AT A GLANCE

- Central management of all tools, including pattern plates, moulds, core boxes, and jigs
- Lifecycle and usage history always available and transparent
- Industry-specific fields such as shot weight, sprue weight, and cycle times fully integrated
- Project Tree/Model Painter for structured representation of all pattern and mould components
- Optimized maintenance planning through clearly recognizable statuses and defined usage frequency
- Seamless connection to calculation, planning, and melting control

MELTING OPERATIONS MODULE

Clear and efficient melting process control

The integrated control center for melts and batches.

TRANSPARENCY FROM FURNACE TO FINAL TAP

The TimeLine Foundry Melting Operations Module streamlines one of the most complex areas of any foundry. Alloys, batch numbers, taps, EMeter data, melt weights, and material movements are digitally captured and centrally controlled.

New melt orders are quickly created: select the alloy, enter batch data, define the output, and the system handles the rest. Melt weight, material needs, and key figures are automatically calculated, including scrap and melting loss.

Upon saving, TimeLine automatically generates the Production order with a pre-set furnace resource, seamlessly linking melts, material flows, and production.

This ensures constant control over melts, energy, and material consumption, clearly documented and audit-proof.



YOUR BENEFITS AT A GLANCE

- Rapid creation of new melt orders, including alloy, batch, output, and relevant parameters
- Automatic calculation of melt weight, material needs, melting loss, and scrap
- Digital capture of taps, EMeter data, and material movements
- Automatic generation of corresponding production orders with pre-set furnace resources
- Full transparency of the entire melting process, from batch to the finished cast component
- Seamless integration into casting calculation, warehouse, planning, and quality management

MODULE: MELTING OPERATIONS MODULE

Timeline

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←
→
🖨️
✓

Schmelzauftrag 1703 (GIS400-... x)

Schmelzbetrieb Schmelzbericht Proben

Kopfdaten

Nummer 1703

Datum 25.06.2025

Schmelzwerk GGG40

Legierung GIS400-15

Bezeichnung GGG40

Bezeichnung 2 GGG40

Charge/Serie

Gatterung 2736 Artikel Standard

Gatterung - Bez Standard

Zuordnungen/Termine

Werk Werk Sölingen

Bearbeiter BG

Status

Status erfährt

Druckstatus nicht gedruckt

WFL Status

Schmelzangaben

Schmelzbeginn 25.06.2025 17:32:21

Schmelzende 25.06.2025 18:32:21

Schmelzdauer [h:m] 1:00

Zählerstand

Anfang

Ende

Verbrauch

Arbeitsfolge

Nummer 10

Arbeitsgang G001

Bezeichnung schmelzen

Proc-Charge Unter Typ GIS400-15

Sperre

Rüstzeit (Min) 0,000

Stückzeit (Min) 60,000 / 5,000,000

Ressource

Ofen SB G001

Schmelzwerk G001 - OFEN 01

Menge

Menge (Soll) 5,000,000 kg

Menge (Ist) 0,000 kg

Gatterung Abstiche

Gatterungen Verbräuche Gatterungs-Journal

PostNr.	Typ	Artikel-Nr.	Bezeichnung	Soll-Menge	ME	Per	Lager	GKZ	Menge Soll Ges.
10	Artikel	0000001425	Gießereikoks Prox China	0,250 kg	1,000	Lager Sölingen	0,00%	1,250,000	
20	Artikel	0000001747	Sieberschrott leicht	0,430 kg	1,000	Lager Sölingen	0,00%	2,150,000	
30	Artikel	0000001754	Dörsenschrott pakettiert	0,270 kg	1,000	Lager Sölingen	0,00%	1,350,000	
40	Artikel	0000002296	Impflegierung FE-SI-BA-FINE5; 0,2-1mm	0,010 kg	1,000	Lager Sölingen	0,00%	50,000	
50	Artikel	0000003224	Kalksteine v Medenbach	0,040 kg	1,000	Lager Sölingen	0,00%	200,000	
60	Artikel	0000002291	FE-SI T5 1-3mm Impfmittel	0,000 kg	1,000	Lager Sölingen	0,00%	0,000	
70	Artikel	SL11	Walzdraht unbehandelt, 5,50 mm Güte C82D2	0,010 kg	1,000	Lager Sölingen	0,00%	50,000	

Ofen Dashboard

G001 Ofen 01

Legierung

Legierung GIS400-15 GGG40

Schmelzbetrieb 1293 GGG40

Menge BA 5,000,000

Restmenge 1,550,000

Schmelzdauer

Proc Charge ID: 1293

Beginn 14:01 Ende 15:02

Gatterungs-Fortschritt

füllstand

G002 Ofen 02

Legierung

Legierung GIS400-15 GGG40

Schmelzbetrieb 1523 GGG40

Menge BA 5,000,000

Restmenge 3,800,000

Schmelzdauer

Proc Charge ID: 1523

Beginn 14:05 Ende 16:05

Gatterungs-Fortschritt

füllstand

demo 16 (jda)

MODULE: MAINTENANCE

TimeLine
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Menu

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Anlage XRAY-01 x

Kopf Struktur Lebenslauf DMS Historie

- 📁 FORM1 - FORM1 - Formanlage GFA
 - 📁 M.0806073.021.001
 - 📁 D.0806073.003.01
 - 📁 S.08006073.004.01
 - 📄 D.0806073.222.01
 - 📄 D.0806073.064.01
 - 📄 D.0806073.064.02
 - 📄 D.0806073.064.03
 - 📄 D.0806073.064.04
 - 📄 D.0806073.064.05
 - 📄 D.0806073.064.06
 - 📄 D.0806073.222.02
 - 📄 D.0806073.222.03
 - 📄 Flachstahl
 - 📄 D.0806073.064.09
 - 📄 D.0806073.064.07
 - 📄 D.0806073.064.10
 - 📄 D.0806073.064.14
 - 📄 D.0806073.064.15
 - 📄 R220.01 - Relais 220 Volt
 - 📄 SERNR - SER01-09
 - 📄 R360.01 - Relais 360 Volt
 - 📄 Wartungsplan
 - 📄 Wartungsplan '4475'
 - 📄 Wartungsplan
 - 📄 Wartungsplan
 - 📄 D.0806073.225.01
 - 📄 D.0806073.225.02
 - 📄 D.0806073.225.04
 - 📄 D.0806074.064.07
 - 📄 D.0806074.064.08
 - 📄 D.0806073.054.01
 - 📁 B.0806073.074.01
 - 📄 1PH7103-2HD00-0BA0
 - 📄 D.232.01.39.4
 - 📄 D.255.08.19.4

Text

Info	S.08006073.004.01			
Bez.	Kastenständergestell			
	noch nicht definiert			

Elemente Ersatzteile Wartungspläne

Lfdnr.	Ersatzteil	Artikel	Menge	Bez.
304	R220.01		1,000	Relais 220 Volt
305	SERNR	SERNR	1,000	Motor
306	R360.01		1,000	Relais 360 Volt

Artikel

Typ	Artikel			
Artikel	SERNR			
SerienNr.	SER01-09	🔍	Seriennr.-Umbau	
Menge			1,000	

Info Center

demo16 (dba)

MAINTENANCE MODULE

Smartly and Transparently Organized Maintenance

The integrated solution for reliable asset availability

FULL CONTROL – FROM SPARE PARTS LISTS TO MAINTENANCE INTERVALS

The TimeLine Foundry maintenance module ensures that machines, furnaces, molding lines, and core manufacturing systems remain operational at all times. Spare parts, consumables, and operating supplies are managed in a dedicated spare parts master, which can optionally be linked directly to your regular item master, including stocks, storage locations, and movements.

Existing machines, assets, and tools can be adopted as maintenance objects within the system. Maintenance plans can be defined with flexible intervals such as daily, weekly, monthly, or custom. TimeLine automatically creates all necessary maintenance tasks and documents their execution in a precise and traceable manner.

The integrated asset monitor clearly displays due maintenance, open tasks, and critical statuses. This ensures your production remains predictable and reliable in the long term.



YOUR BENEFITS AT A GLANCE

- Centralized management of machines, furnaces, assets, and tools as maintenance objects
- Dedicated spare parts master with optional link to the regular item master
- Automatic creation of all maintenance tasks and precise documentation of completed work
- Transparent asset monitor with all due maintenance and open tasks
- Higher asset availability through proactive planning and clear processes

GATING

Recipes clearly defined, fully traceable

Flexible alloy and mixture management.

PRECISE RECIPES FOR STABLE MELTING PROCESSES

TimeLine Foundry's gating management transparently defines your alloys and material mixtures.

Whether a freely defined recipe or an automation-supported compilation based on a Bill of Materials (BOM), TimeLine connects all relevant materials, input components, and weight proportions into a clearly documented gating.

Recipes are precisely versioned and structured by material or alloy. Every composition remains permanently traceable and forms the foundation for all subsequent processes, from melting order to quality inspection. With TimeLine, you control complex variants, ensuring each melt relies on a robust, consistent recipe. This ensures stable production processes, reduced material errors, and complete traceability from raw input to the finished cast component.



IHRE VORTEILE AUF EINEN BLICK

- Flexible Recipe Management: Define gatings freely or automatically compile them based on the material BOM
- Clear documentation of all input materials, alloy components, and variants
- Versionable recipes for development processes or customer-specific alloy requirements
- Direct integration into melting operations. gatings are the basis for material demand, melt weight, and batch
- Seamless connection to calculation, automatically considering actual material proportions and recipes

MODULE: GATING

TimeLine
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Menu

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 - 📄 Schmelzbetrieb (GSB)
 - 📄 Gattierungs-Stückliste (GG)

Gattierungen GIS400-15 (GG... x)

Rezeptur/Gattierung

Artikelstamm

Artikel-Nr. → GIS400-15

Bezeichnung 1 GGG40

Bezeichnung 2

Text

Gattierung

Arbeitsplan → 2736 Artikel Standard

Ref. Menge → 5.000,000 kg

Summe Brutto Einsatzmenge → 4.000,083 kg

Text

Stückliste

Position	Typ	Artikel-Nr.	Suchwort	Bezeichnung	Lager	Modus	Brutto-Einsatzmenge	%	ME	Menge	Per Stück
10	Normal	0000001425	GIEBEREIKOKS PROV...	Giebereikoks Prov China	Lager Solingen	Prozentual/Rezept	1.018.691	25,47 %	kg	0,255	1,000
20	Normal	0000001747	Schersenschrott leicht	Schersenschrott leicht	Lager Solingen	Prozentual/Rezept	1.708.053	42,70 %	kg	0,427	1,000
30	Normal	0000001754	Dosenschrott pakettiert	Dosenschrott pakettiert	Lager Solingen	Prozentual/Rezept	1.086.943	27,17 %	kg	0,272	1,000
40	Normal	0000002296	Impfiegierung FE-Si...	Impfiegierung FE-Si-BA-FINES; Q2-1mm	Lager Solingen	Prozentual/Rezept	31.056	0,78 %	kg	0,008	1,000
50	Normal	0000003224	Kalksteine v Medenb...	Kalksteine v Medenbach	Lager Solingen	Prozentual/Rezept	155.278	3,88 %	kg	0,039	1,000
60	Normal	0000002291	FE-Si 75 1-3mm Impf...	FE-Si 75 1-3mm Impfmittel	Lager Solingen	Prozentual/Rezept	0.062	0,00 %	kg	0,000	1,000

100,000

demo 10 | dba

FOUNDRY PLANNING

Efficient and flexibly controlled moulding lines

Precise planning for maximum utilization and seamless operations.

INTELLIGENT PLANNING OF SHIFTS, PROGRAMS, AND CAPACITIES

TimeLine Foundry's advanced planning functionality was specifically developed for the demands of modern foundries. Each plant operates with individual programs that are precisely mapped within the system. For each program, factors influencing capacity calculation can be defined.

TimeLine automatically handles distribution, ensuring that every production unit is optimally utilized. This creates transparent and easily manageable planning, from individual batches to series production. With just a few clicks, you get a structured overview of all planned quantities and shifts. Bottlenecks or overloads become immediately visible, enabling you to make informed decisions and ensure stable production processes.



YOUR BENEFITS AT A GLANCE

- Flexible shift planning, optionally defining quantities per shift or the number of shifts
- Automatic quantity allocation – TimeLine intelligently distributes production quantities to available shifts
- Clear capacity overview – bottlenecks and free slots become immediately visible
- Seamless integration – directly connected to production planning and resource management

MULTI-LEVEL RESOURCE PLAN

All Resources. Every Stage. One Overview.

Complete 360° transparency across your entire production process

YOUR ENTIRE MANUFACTURING STRUCTURE AT A GLANCE

TimeLine Foundry's multi-level resource plan provides a comprehensive overview of all resources, operations, and material dependencies for an item, including the sub-levels of the project assembly. With just one click on the blue arrow in the item master, all production steps become visible: operations, required materials, machines, tools, employees, test equipment, and QA operations.

All levels of the manufacturing structure are displayed transparently, from core manufacturing to post-processing and quality assurance. Each resource provides additional information such as resource history, DMS documents, or tool parameters. The resource plan thus becomes a central analysis interface that helps planners, QA, production planning, and project management identify bottlenecks and make informed decisions.



YOUR BENEFITS AT A GLANCE

- Complete overview of all structure levels of an item, including every sub-item
- Full resource transparency: machines, tools, employees, test equipment, and materials
- Additional information at your fingertips: DMS documents, resource history, status, and parameters
- Ideal for production planning, QA, and project management, all in one view
- Foundry-specific enhancements ensure clear mapping of sprue components, inspection processes, and tools

MODULE: MULTI-LEVEL RESOURCE PLAN

The screenshot displays the SAP TimeLine interface for article 6000 (Pumpengehäuse). The main window shows the 'Ressourcenplan' (Resource Plan) for this article, which is a multi-level tree structure. The tree starts with '6000 - Pumpengehäuse' and branches into several sub-activities, each with its own resource requirements.

Stammdaten (Main Data):

- Artikel-Nr.: 6000
- Bezeichnung: Pumpengehäuse
- Bezeichnung 2: PUMPENGEHÄUSE
- Suchwort: formatierten Text verwenden

Zeichnungs-ID: 8861-104-5 (D)

Hauptinformationen (Main Information):

- Artikelgruppe: Diverse
- Artikelart: Artikel
- Mengeneinheit: Stück
- Verkaufsartikel: Ja
- Einkaufsartikel: Nein
- Produktionsartikel: Ja
- Projekt ID: Ja
- WFL Status: Ja

Zusatzinformationen (Additional Information):

- Provisions-Schlüssel: Ja
- Kostenstelle/-träger: Ja
- EAN-Nr. (13-stellig): Ja
- Werk: Ja
- Guss: Ja
- Modell-ID: Ja
- Rohgewicht: Ja
- Prüfbescheinigung: Ja

Ressourcenplan für Artikel '6000':

- 6000 - Pumpengehäuse
 - G010 - Werkzeug aufarbeiten
 - G010 - Schlosserei
 - CU-LS0 - C100
 - BX - Bolzen
 - GX - Gewindebuchse
 - G020 - gießen G00
 - G020 - DGM Bühler Fusion 40
 - 100 - Druckguss-Werkzeug XY
 - 500 - Facharbeiter
 - G020 - gießen
 - G022 - DGM Bühler Evolution 8
 - 100 - Druckguss-Werkzeug XY
 - G030 - Zwischenprüfung
 - G030 - Vorkontrolle
 - G040 - strahlen
 - G040 - Putzerei
 - G050 - sägen
 - G060 - Sägen
 - G060 - CNC-Bearbeitung
 - G070 - CNC-Zentrum
 - G10 - Innendurchmesser Flansch
 - PM120 - Innendurchmesser Flansch
 - G10 - Bohrungen 8 mm
 - G070 - Bohrungen 8 mm
 - G070 - Endkontrolle
 - G080 - Endkontrolle
 - G40 - Röntgen

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With TimeLine, we achieve highly efficient collaboration. The team lives and breathes the foundry industry, understanding processes, operations, and challenges in great detail.

– Bernhard Rieken
CEO



All Functions at a Glance:

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