



bit.Wise

DIGITAL SOLUTIONS



bitWise is SML's digital transformation solution for extrusion lines.

It breathes life into the buzzword "Industry 4.0". bit Wise provides for a wide range of entirely new opportunities for data driven decisions with a clear focus on the optimisation of production processes and the final product.



Completely developed in-house, it incorporates SML's decades of experience in automation with the latest technologies in data analytics and visualisation.

In-depth process insights

SML extrusion lines are equipped with hundreds of data-generating sensors. Following the principle of "stop guessing – start knowing", bitWise collects, records and visualises this data up to 10 times per second. This gives manufacturers a 360 degree in-depth view of all the details involved in a production process, both in the present and in the past.

Optimising quality

bitWise is a powerful tool to optimise any aspect of the production process with a direct effect on product quality.

- In-depth monitoring of all quality-related process parameters, allowing quick corrective action
- Comprehensive tracking and documenting of product quality
- Making quality reproducible

Maximising output

Data recorded, aggregated and visualised by bitWise helps to raise overall line utilisation and deliver a faster return on investment (ROI).

- Discovering hidden or unused output capacities
- Preventing downtimes by detecting potential problems at an early stage
- Minimising maintenance times through optimised scheduling and structured access to documentation and service support

Minimising production costs

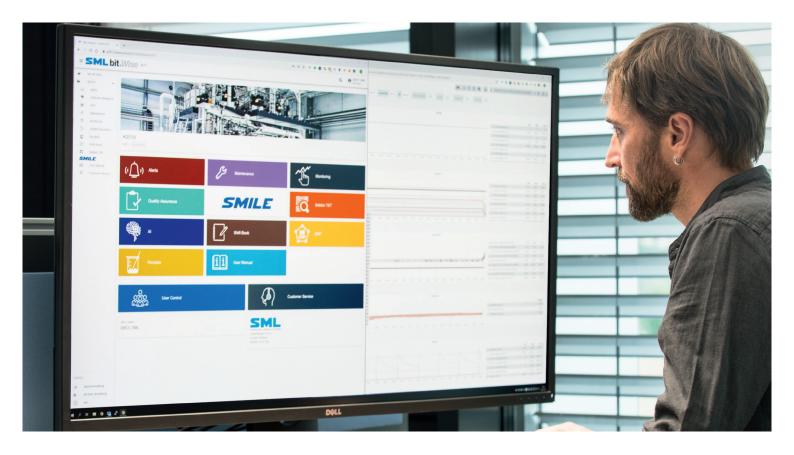
bitWise is the central tool to measure and visualise all production-related costs. It forms a strong and reliable basis for the continuous cost-optimisation of production processes.

- Detailed monitoring and reporting of energy and raw material consumption
- In-depth optimising, tracking and reporting of Overall Equipment Effectiveness (OEE)
- Full end-to-end cost transparency through third-party integration

On-premise solution

bitWise is a 100 % on-premise solution. Your data stays in your company, on dedicated and secured hardware, no cloud services required.

Why bitWise? 1 For process insight – stop guessing, start knowing 2 For product insight – stop promising, start showing 3 For vertical integration – stop improvising, start integrating



Customisation and Retro-Fit

As with most technologies developed by SML, bitWise is highly customisable. bitWise can be retro-fitted to many existing SML extrusion lines optimising production processes, cutting costs, raising the OEE and ROI of existing investments.

Open for vertical integration

Extrusion lines are a key part in a wider production chain. For end-to-end optimisation, bitWise supports data exchange and vertical integration with third-party systems, e.g. Manufacturing Execution Systems (MES), Enterprise Resource Planning (ERP) or Quality Assurance (QA).





bitWise Modules:

Core Modules

- ► Monitoring in-depth view to any detail of the production process
- ► Alerts customisable alerts on the screen, via e-mail, messenger or other tools
- ► Shiftbook automatic or manual documentation of any relevant event in production
- ► Customer Service fast and structured communication processes with SML's service team
- ► User Manual user manuals and maintenance information available at your fingertips
- ► Maintenance data-driven optimisation of maintenance activities

Add-on Modules

- ► Roll Monitoring T&T fast and comfortable end-to-end tracking of all product-related details
- Quality Assurance module for product assessment and in-depth quality control
- ▶ Recipes comprehensive and comfortable recipe management system
- ► ERP quick and easy vertical integration of third-party systems like MES, ERP or QA into bitWise
- ▶ bitWise AI advanced modules with artificial intelligence built-in



SML - Head Office

SML Maschinengesellschaft mbH Gewerbepark Ost 32 4846 Redlham, Austria Phone: +43 7673 90999 0 E-mail: sml@sml.at www.sml.at

SML - Machinery Far East Sdn Bhd

(1029958-P)
1201 Block B, Menara Amcorp
No.18 Jalan Persiaran Barat
46050 Petaling Jaya
Selangor Darul Ehsan,
Selangor, Malaysia
Phone: +60 3 7955 9098
Fax: +60 3 7955 9981
E-mail: yen@sml.at

SML - Moscow Office

Ogorodny proezd, 5 Building 6, office 504 127254 Moscow Russia

Russia Phone: +7 495 618 8007 Fax: +7 495 619 5961 E-mail: kna@sml.at

SML - Beijing Office

Unit 1410, Landmark Tower No. 8 North Dongsanhuan Road Chaoyang District 100004 Beijing, P.R. of China Phone: +86 10 6590 0946 Fax: +86 10 6590 0949 E-mail: sml@sml.bj.cn

SML - North America Service Inc.

Suite 204 85 Eastern Avenue Gloucester MA 01930 USA Phone: + 1 978 281 0560

E-mail: jom@sml.at



ANALYSES | DEVELOPMENT

PRE-TESTED PERFORMANCE | DELIVERY ON TIME

SERVICE SUPPORT | CUSTOMER SATISFACTION

www.sml.at