bit.*Wise*

Stop guessing, start knowing

▶ **DATA ANALYTICS**

Extrusion lines –
engineered to perform

With bit*W*ise, SML's customers can analyse the entire process history
of their SML extusion line with a single click, rather than relying on current snapshots.
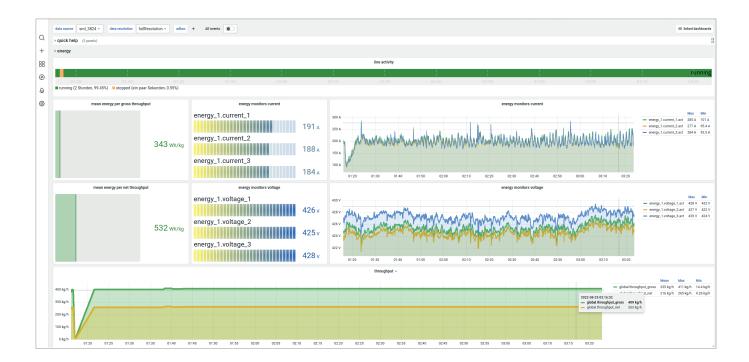
bit*W*ise incorporates decades of experience in automation with the latest technologies in data analytics and provides a wide range of completely new opportunities for data-driven decisions.

IN-DEPTH VIEW OF ALL DETAILS

SML's extrusion lines are equipped with hundreds of data-generating sensors. bit*W*ise records and visualises this data up to 10 times per second. In addition, each manufactured roll is provided with a QR code, which serves for identification. Putting everything together, manufacturers get an in-depth view of all the details involved in a production process – both in the present and in the past.

With bit*W*ise, customers can look back at pressures within the system components and check whether there is a correlation with other measured values such as temperature or laboratory results of a finished product roll.

Dashboard

data source sml_3824 · data resolution fullResolution · adhoc + All events ◯

linked dashboards

› quick help (2 panels)

⌄ energy

line activity

running

■ running (2 Stunden, 99.45%) ■ stopped (ein paar Sekunden, 0.55%)

mean energy per gross throughput

343 Wh/kg

energy monitors current

energy_1.current_1 191 A
energy_1.current_2 188 A
energy_1.current_3 184 A

energy monitors current

	Max	Min
energy_1.current_1.act	285 A	101 A
energy_1.current_2.act	277 A	95.4 A
energy_1.current_3.act	284 A	92.5 A

mean energy per net throughput

532 Wh/kg

energy monitors voltage

energy_1.voltage_1 426 V
energy_1.voltage_2 425 V
energy_1.voltage_3 428 V

energy monitors voltage

	Max	Min
energy_1.voltage_1.act	428 V	422 V
energy_1.voltage_2.act	427 V	422 V
energy_1.voltage_3.act	429 V	424 V

throughput

	Mean	Max	Min
global.throughput_gross	335 kg/h	411 kg/h	14.4 kg/h
global.throughput_net	216 kg/h	265 kg/h	9.26 kg/h

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global.throughput_gross 409 kg/h
global.throughput_net 263 kg/h

ALWAYS CONNECTED, EVEN ON THE GO

bit*W*ise is an 100 % on-premises-solution. This means that the data remains in-house on dedicated hardware, no cloud services are required. Nevertheless, customers can access bit*W*ise in their company network via their VPN or a remote desktop solution.

Planning and Data Import ▼

bit.Wise

▲ Data Aquisition and -export

ERP — **Enterprise Level**

Planning Level — PP/MES

SCADA — **Execution Level**

Control Level — PLC

Sensor/Actors — **Field Level**

▲ **Process Production**

OPTIMISING QUALITY

bit*W*ise is a powerful tool to precisely optimise any aspect of the production process with a direct effect on product quality.

▶ Monitoring of all quality-related process parameters, allowing quick corrective action

▶ Comprehensive tracking and documenting of product quality

▶ Making quality reproducible

MAXIMISING OUTPUT

Recorded, aggregated and visualised data by bit*W*ise help 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

bit*W*ise is the central tool to measure and visualise all production related costs. It forms a strong and reliable basis for the continuous cost-optimisation.

▶ 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

OPEN FOR VERTICAL INTEGRATION

At SML we understand that the extrusion lines represent a key part in a wider production chain. For end-to-end optimisation, bit*W*ise therefore supports data exchange and vertical integration with third-party systems such as Manufacturing Execution Systems (MES), Enterprise Resource Planning (ERP) or Quality Assurance (QA). Customers can simply retrieve the data from the system.

CHOOSE YOUR PERFECT INTERFACE

As with most technologies developed by SML, bit*W*ise is highly customisable and can be retrofitted to all existing SML extrusion lines.

Take advantage of our global leadership in extrusion technology.

ANALYSES
DEVELOPMENT
PRE-TESTED PERFORMANCE
DELIVERY ON TIME
SERVICE SUPPORT
CUSTOMER SATISFACTION

SML

EXTRUSION LINES – ENGINEERED TO PERFORM ▶

SML - Head Office
Gewerbepark Ost 32
4846 Redlham
Austria
Phone: +43 7673 90999
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
E-mail: yen@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
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
Mobile: +1 978 394 1553
E-mail: jom@sml.at

www.sml.at