

Your Digital Companion

myAssist

Process improvement powered by smart data analysis.



COMPREHENSIVE DATA STORAGE AND VISUALIZATION

myAssist Smart collection & analysis of production data.

myAssist is Sumitomo (SHI) Demag's highly-advanced digital tool for injection moulders and was designed specifically with usability and efficiency in mind. Generating a comprehensive history of all process and machine events in a concise, easy-to-follow format, myAssist supports complete process transparency. Operators can access live performance data from multiple machines, with all major events documented by order, shift, and part.



YOUR ADVANTAGES AT A GLANCE

1 – Improve quality & reduce scrap

Data-driven production insights

Gain complete oversight of your production line, from machine status to process parameters. Use this data to drive productivity, minimize downtime, and improve part quality – helping you meet profitability and sustainability targets.

3 – Easy usability

Customizable dashboards for every team member

myAssist's interactive, user-friendly interface empowers your entire team. Personalized dashboards allow employees to view and analyze their most critical KPIs in real-time, providing insights on both individual machines and the entire fleet.

2 – Total data transparency

Comprehensive data from machines, peripherals & third-party services

myAssist serves as middleware, seamlessly connecting machines to MES or ERP systems. It creates a comprehensive view of your production processes, by creating a digital twin of your whole production and storing the data by each cycle.

4 – Fast data processing

Real-time performance, seamless analysis

Powered by a high-performance database, myAssist processes data with sample rates as low as 5 ms. The system can aggregate recorded data across flexible time intervals, such as cycles, production lots, or hours.

5 – Secure data management

Your data, secured by industry-leading standards

With stringent security protocols in place, myAssist ensures your data stays protected. It integrates with systems using the latest standards, such as OPC-UA for peripherals and REST-API for third-party services, for secure data communication.



DASHBOARDS – THE CORE OF MYASSIST

Dashboards

myAssist revolves around dynamic dashboards that display machine data, process data, information on peripheral devices, order details, and more. You can build and customize these dashboards to include real-time and historical data gathered from the following sources:

Digital Twin:

myAssist includes a digital twin of your machines. Those send defined information to myAssist, allowing efficient data management and fast display and analysis of machine data.

HVI (Human Virtual Interface):

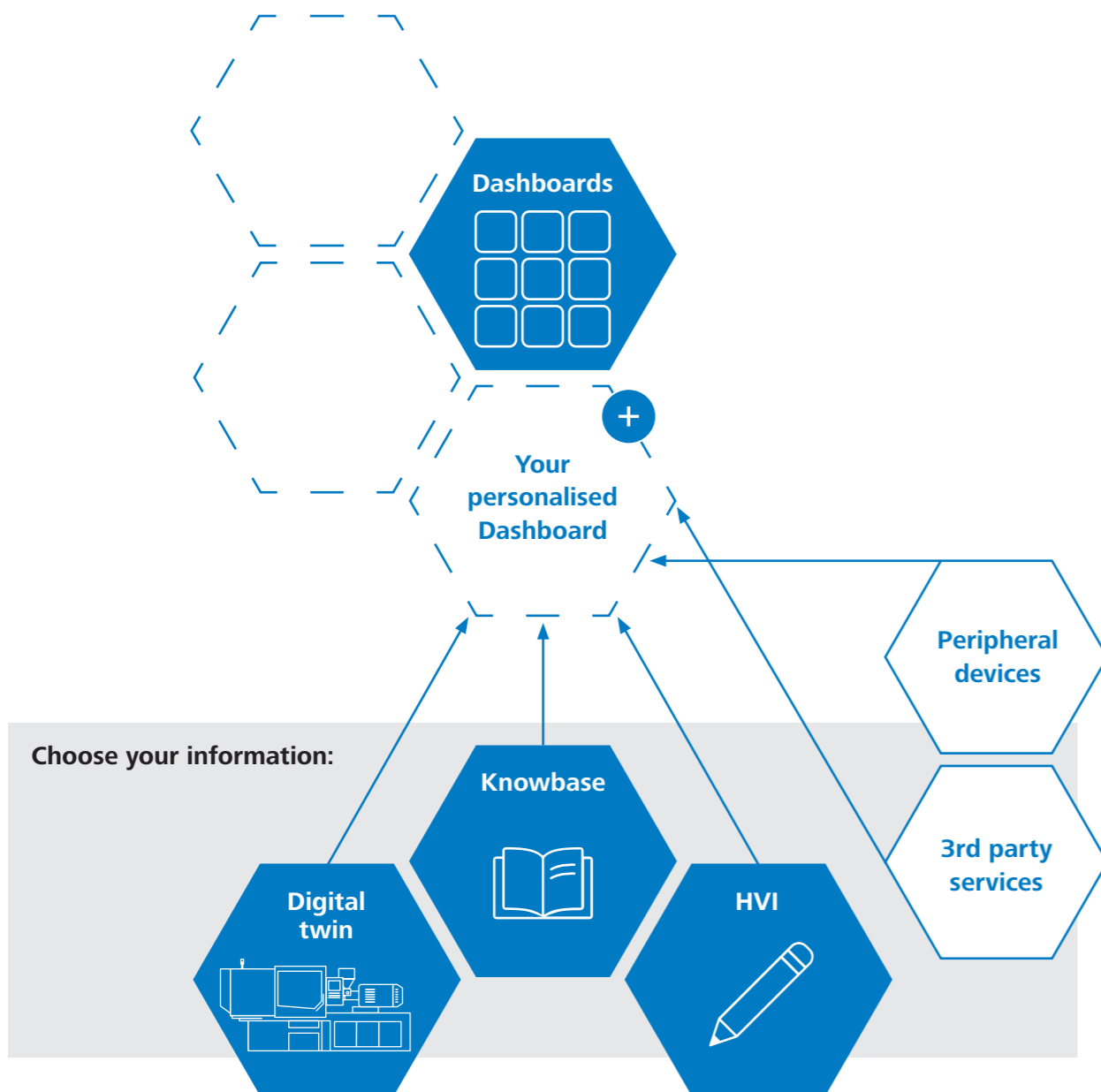
Interfaces, which give operators the option to enrich the gathered data by entering information, such as flagging faulty parts and thus extending quality statistics.

KnowBase:

Your production's memory in form of an expandable database, storing information on moulding defects, order parameters, and documentation.

External Data Sources:

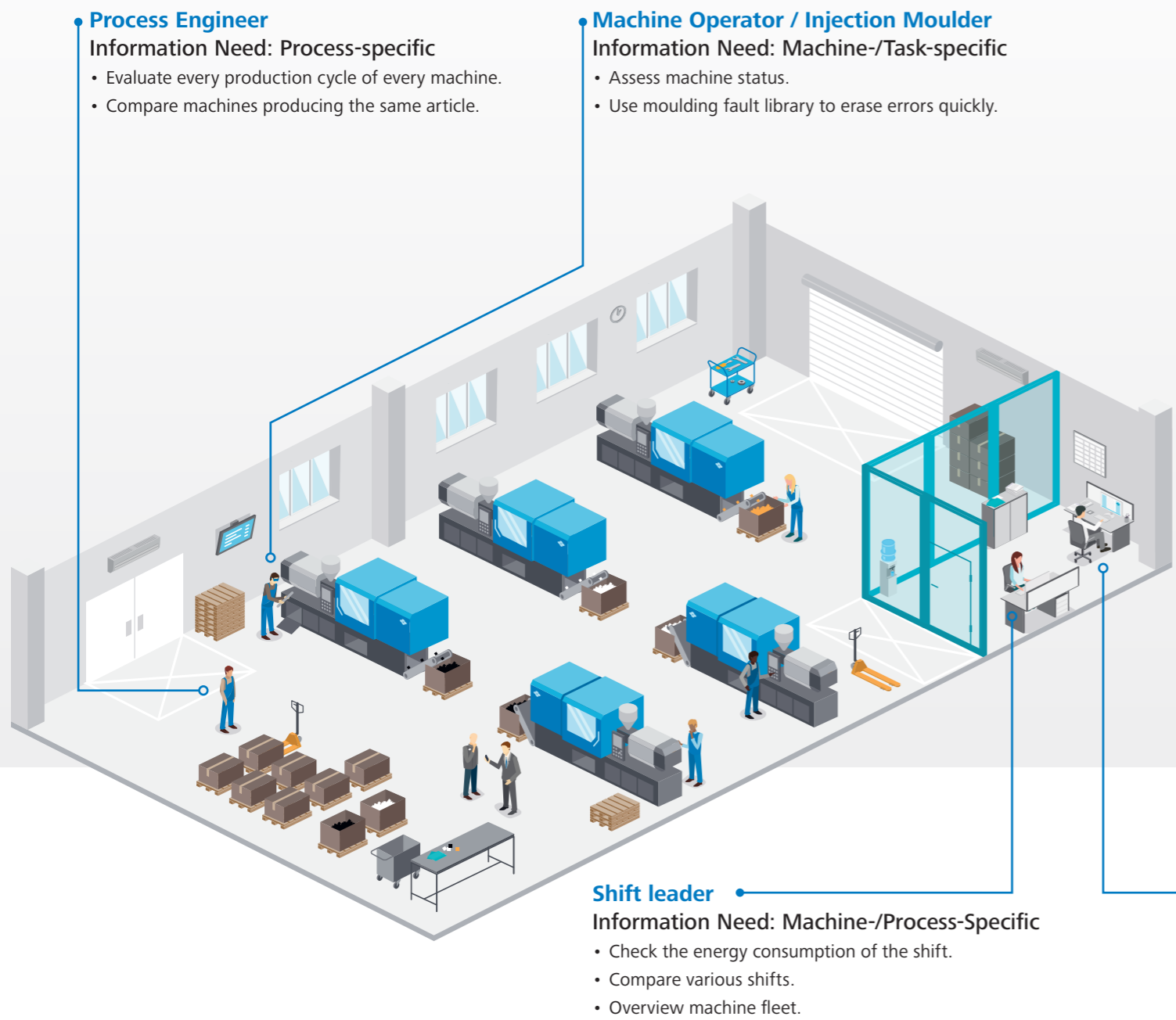
Data from peripherals and third-party services securely included via industry-leading standards. This way, you can also connect your own websites, pdf documents or your own moulding fault catalogues.



Your team's digital companion

Have your team make informed decisions by using standardized or individualised dashboards.

With myAssist, each team member can access standardized or personalized dashboards tailored to their specific information needs. From operators to managers, every user can monitor key data in real-time and respond quickly to any anomalies, reducing downtime and boosting productivity.

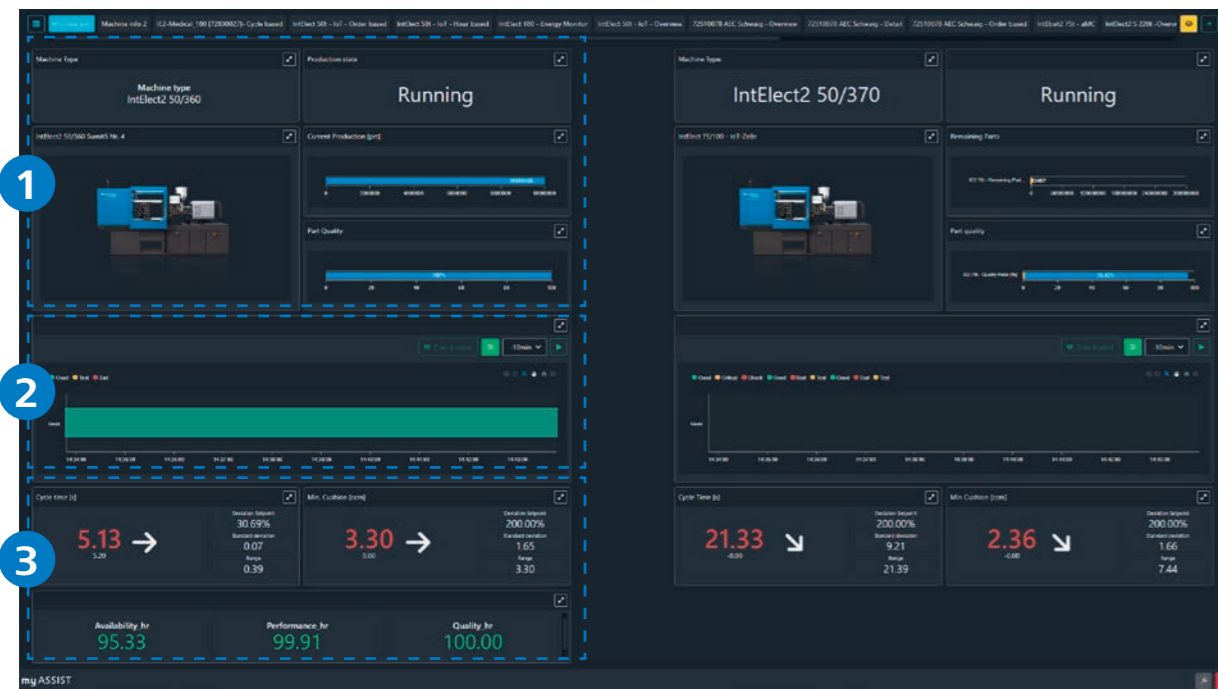


Standardised Dashboards for Machine/Task specific information.

Machine Dashboard

Get a complete view of your machine fleet with real-time status updates and performance data. This dashboard highlights machine errors through an intuitive trend-analytic system and tracks important KPIs, providing operational transparency across your entire production.

- ✓ Instant error detection.
- ✓ Full fleet performance overview.
- ✓ Key data always at hand.

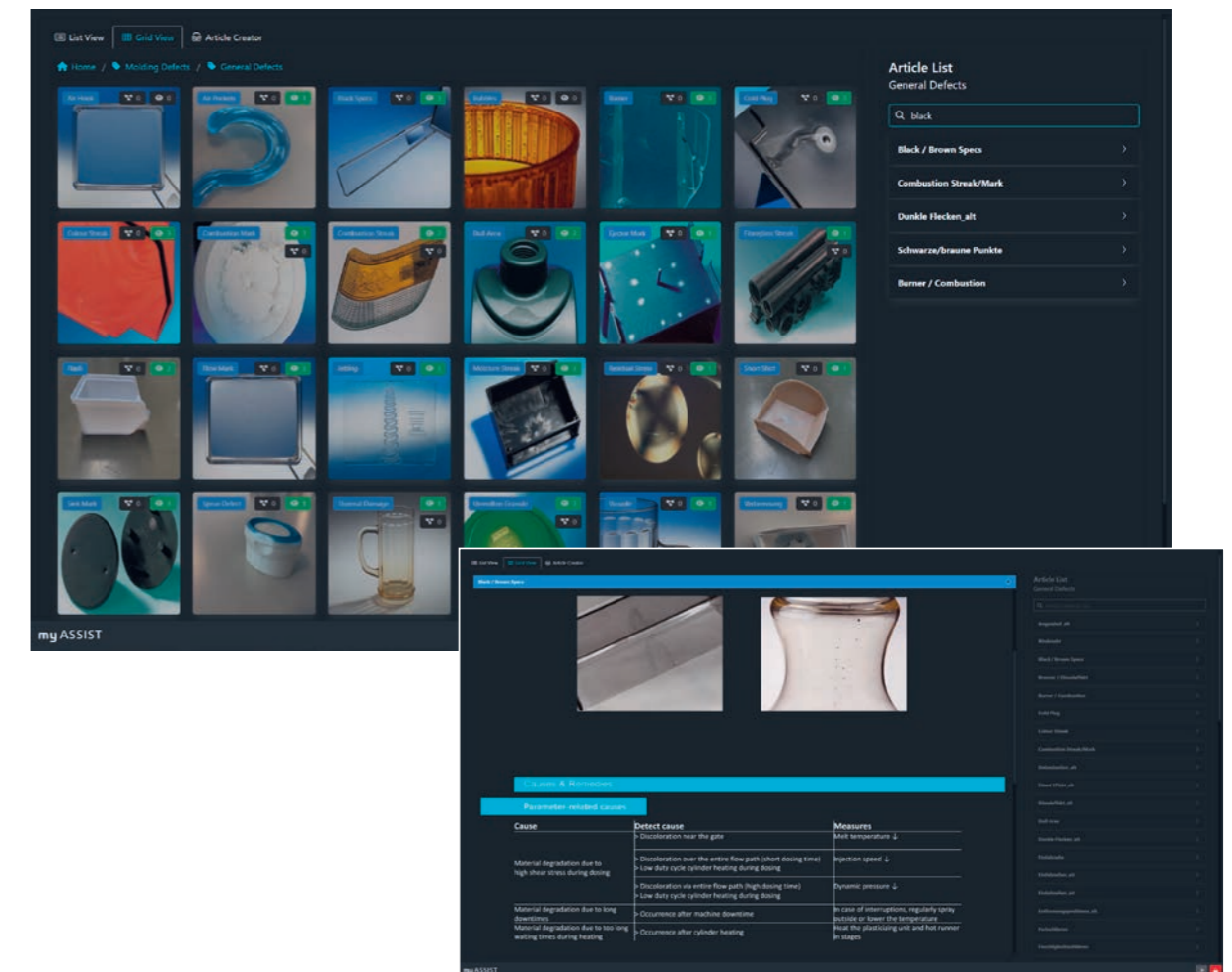


- 1 Overview**
Overview of machine, condition and current order.
- 2 Time-line display**
Shows the machine status over time and any downtimes or malfunctions.
- 3 KPI Overview & trend analysis**
Birds-eye view on your project-specific KPIs.

KnowBase

Store and access key production information, troubleshooting guides, and documentation in one centralized location. With smart search capabilities, your team can quickly find solutions to resolve issues efficiently.

- ✓ Fast troubleshooting.
- ✓ Easy access to key production data.
- ✓ Multiformat support (PDFs, videos, websites).

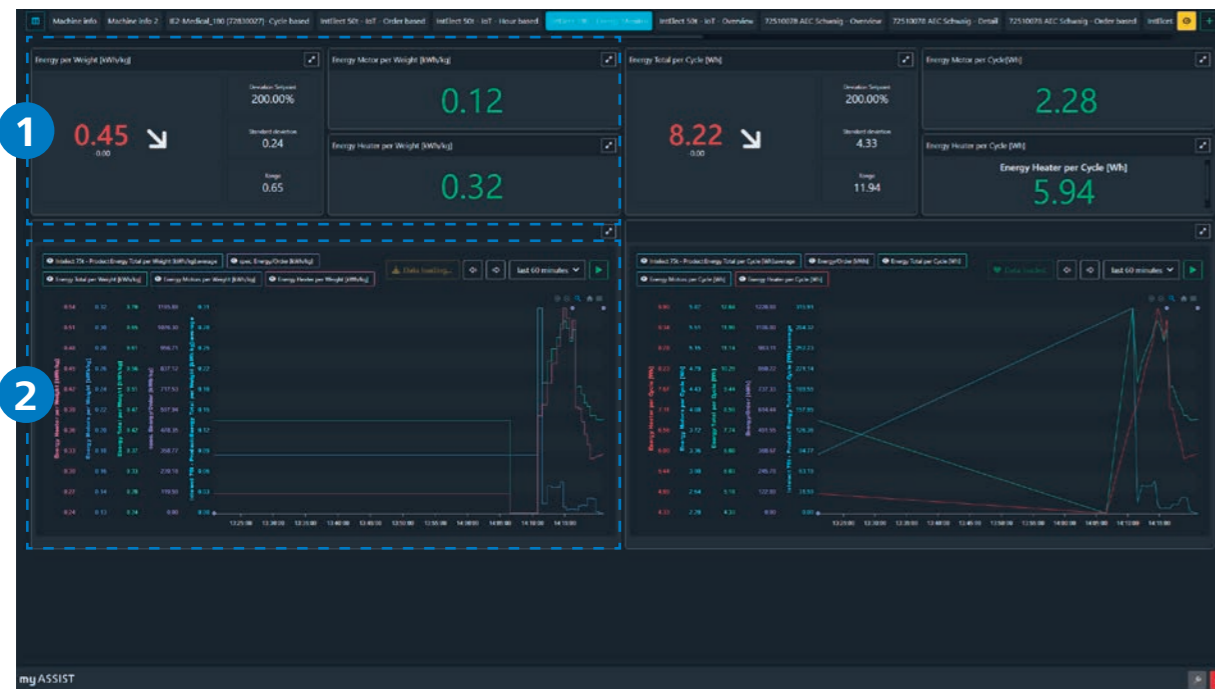


Standardised Dashboards for Process specific information.

Energy Dashboard

Monitor and optimize energy consumption across all machines and connected devices in real-time. Track energy usage patterns and design custom parameters for better resource management.

- ✓ Real-time energy monitoring.
- ✓ Optimize energy efficiency.
- ✓ Customizable energy parameters.



1 Total energy consumption
Heater, drives and temperature controller, for specific energy and per cycle.

2 Total energy consumption timeline
Heater, drives and temperature controller, for specific energy and per cycle.

Cycle-based Dashboard

Dive deep into process data with detailed cycle-by-cycle analysis. Compare key parameters like injection pressure and screw position to identify and address inefficiencies in production.

- ✓ In-depth troubleshooting.
- ✓ Compare cycle performance.
- ✓ Optimize machine settings.



1 Overview
Displays data from up to 100 cycles.

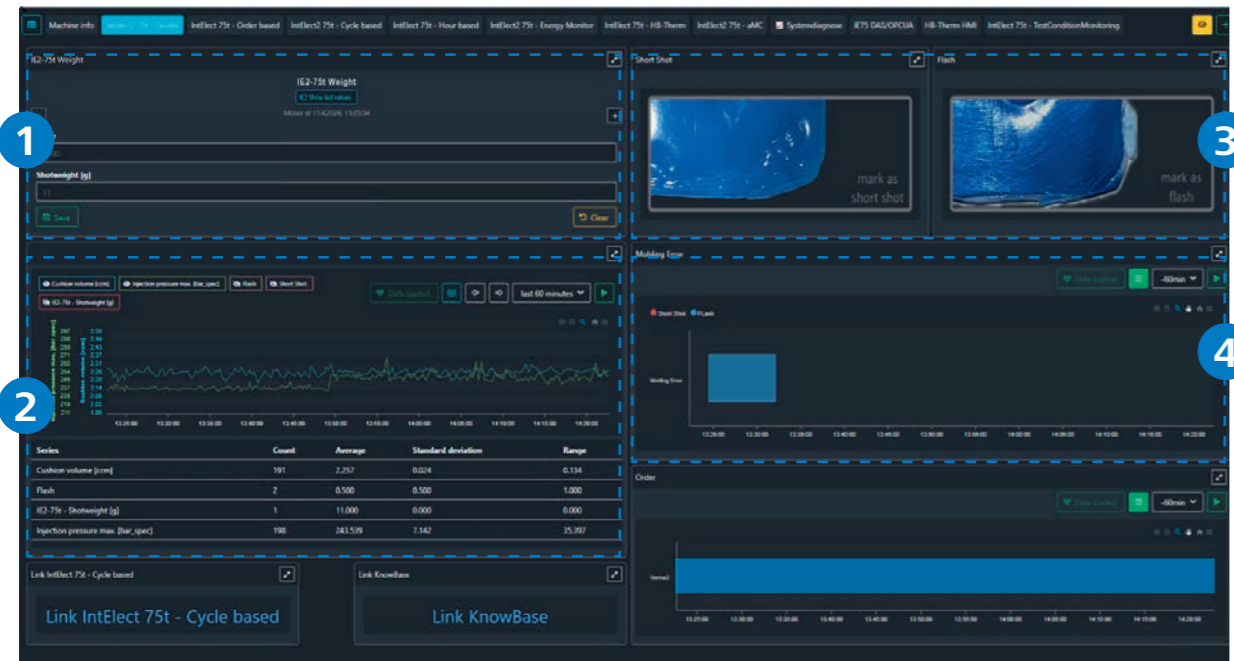
2 Detailed view.
Display and compare parameters of selected cycles.

Standardised Dashboards for KPI.

Quality Dashboard

Track and improve product quality by correlating machine data with part quality. Use HVI data to label problematic cycles and create comprehensive quality reports for better decision-making.

- ✓ Real-time quality insights.
- ✓ Link quality data with machine parameters.
- ✓ Customizable quality metrics.



1
HVI Interface
Manual input of quality parameter.

2
Time based graph
Displays manual input and labelling information over time.

3
HVI Interface
Labelling of visually faulty parts.

4
Display of moulding errors
Short shot and flash.

Order-based Dashboard

Evaluate and compare production efficiency by tracking performance per order or article. This dashboard offers detailed comparisons of scrap rates, cycle times, and energy consumption for different production runs.

- ✓ Order-specific performance analysis.
- ✓ Scrap reduction insights.
- ✓ Easy comparison across production runs.



1
Overview
Displays data from up to 100 orders.

2
Detailed view
Display and compare parameters of selected orders.



www.sumitomo-shi-demag.eu

All of the information in this prospectus has been provided by us and collated with the greatest care. However, we cannot guarantee its accuracy. Furthermore, we must highlight that individual representations and information with regard to the actual delivery status may vary. 09.2024