

Driving Mask Manufacturing **Excellence**

The MYIntelligence Suite



Scalable Digital
Platform for
Smarter Mask
Manufacturing



MYIntelligence
enables manufacturers
to operate with greater
control, improved
efficiency, and more
predictable production
outcomes.

MYIntelligence: A Scalable Digital Platform for Smarter Mask Manufacturing

MYIntelligence is a scalable digital solution designed to empower Mycronic photomask equipment with intelligent efficiency, continuous optimization, and actionable insights. It enables manufacturers to move confidently from data visibility to automated, optimized, and sustainable production. By integrating metrology and inspection tools, analytics, and tool-to-tool communication, MYIntelligence transforms manufacturing data into measurable business value.

FROM DATA ACCESSIBILITY TO INTELLIGENT AUTOMATION

MYIntelligence is built on a strong foundation of data accessibility that enables manufacturers to move from insight to action with confidence. By collecting and structuring manufacturing data, MYIntelligence helps to transform raw information into clear trends and deep learning-driven analysis. These insights will support in-depth mask quality evaluation, improved machine stability, and informed decision-making across the production environment.

Advanced analytics enable predictive maintenance, reduce unplanned downtime and increase equipment availability. At the same time, seamless tool-to-tool (T2T) communication allows machines to share information in real time, enabling coordinated responses and adaptive process control. The result is intelligent, hands-free automation – where data flows effortlessly between tools, processes adjust dynamically, and manufacturing performance is continuously optimized. MYIntelligence connects data, insight, and automation to deliver higher stability, efficiency, and long-term reliability.

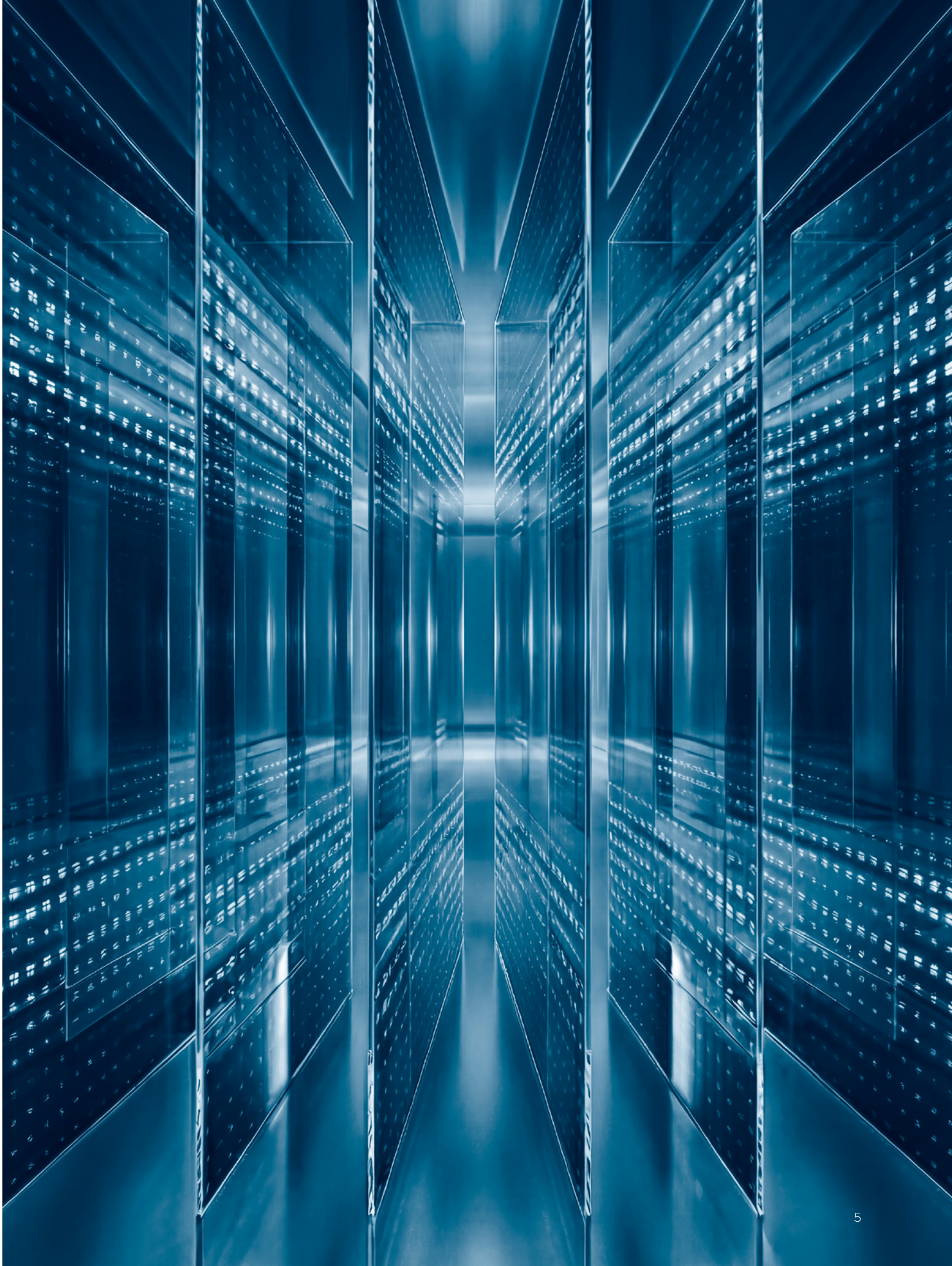
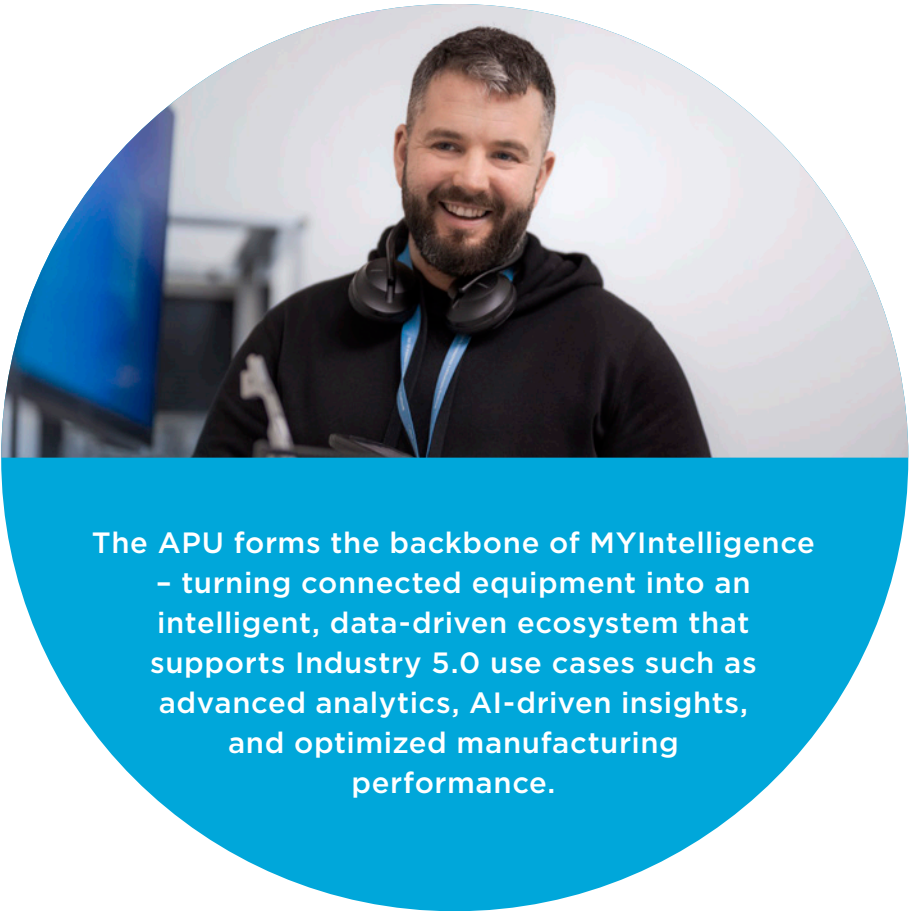
Analytics Processing Unit: **The Hub of MYIntelligence**

The Analytics Processing Unit (APU) acts as the central hub of MYIntelligence, connecting all Mycronic tools into one unified digital backbone. All operational data is collected, processed, and stored centrally in the APU, creating a single, structured source of truth.

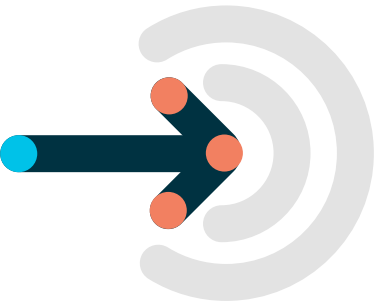
**FROM DATA COLLECTION TO
ANALYSIS AND TRACEABILITY**

As both a storage and analytics platform, the APU not only consolidates data but also transforms it into actionable insights. Realtime data collection and processing allow rapid analysis, while long-term

storage supports trend analysis, traceability, and continuous improvement. Through standardized interfaces and secure connectivity, the APU ensures efficient communication between devices, factory systems, and Mycronic applications.



Signals and Capabilities: Powered by APU and MYIntelligence



Signals

WHAT WE COLLECT

- Exposure**
Realtime data related to exposure quality
- Subsystems**
Signals from subsystems during exposure to monitor
- Parameters**
Historical data to track exposure condition
- Environment**
Realtime tracking of utility



Platform Capabilities

WHAT WE ENABLE

- Centralized data ingestion**
All signals are stored in the APU
- Contextualization**
Signals and parameters are linked to exposure, job, tool state, and time window
- Traceability**
Full history of parameter changes and their process impact
- Early Alerts & Events**
AI and Rule-based detection of abnormal conditions and dropouts
- Exposure Analysis**
Digitalized strip-log analysis with API access to results
- Data Transparency**
Raw and processed data available via standardized APIs



Outcome

WHY IT MATTERS

-  **Process Reliability**
-  **Service Quality**
-  **Operational Efficiency**
-  **Long-Term Sustainability**



Bringing tomorrow's electronics to life

MYCRONIC

MYCRONIC.COM

SWEDEN

Mycronic AB
PO Box 3141
Nytorpsvägen 9
SE-183 03 Täby
Sweden

Tel: +46 8 638 52 00

SOUTH KOREA

Mycronic Co. Ltd.
3rd Floor, Jung-San
Bldg. 1026-8
Sanbon-Dong, Gunpo-Si
Gyeonggi-Do, 15808
South Korea

Tel: +82 31 387 5111

CHINA

Mycronic Co., Ltd.
Unit 106, E Block
Lane 168, Da Duhe Road.
Putuo District, 200062
Shanghai P.R. China

Tel: +86 21 3252 3785/86

JAPAN

Mycronic Technologies KK
Chofu Center Bldg.
1-18-1 Chofugaoka,
Chofu-shi
Tokyo 182-0021
Japan

Tel: +81 42 433 9400

USA

Mycronic Inc.
6292-G
San Ignacio Blvd
San Jose
CA 95119
USA

Tel: +1 408 392 2260