



AI-POWERED MOUNTING MARK RECOGNITION

AVI

Advanced Visual Intelligence

AI-powered mounting mark recognition for faster more reliable flexo plate mounting

Detect • Recognize • Compensate • Validate

NEW INNOVATION

SAMM 3.0

3rd Generation Automatic Flexo Plate Mounter

Consistent high-quality plate mounting with minimal operator interaction

Mounting accuracy of 5 microns + rapid mounting speed of under 30 seconds per plate

Maximized safety ensured by an array of features

Streamlined mounting workflow through integrated software

EDGE TECH PROCESS OPTIMIZATION

SAMM 3.0 1300

SAMM 3.0 1300
SOLD TO
LEEB FOLLEN
LEEB

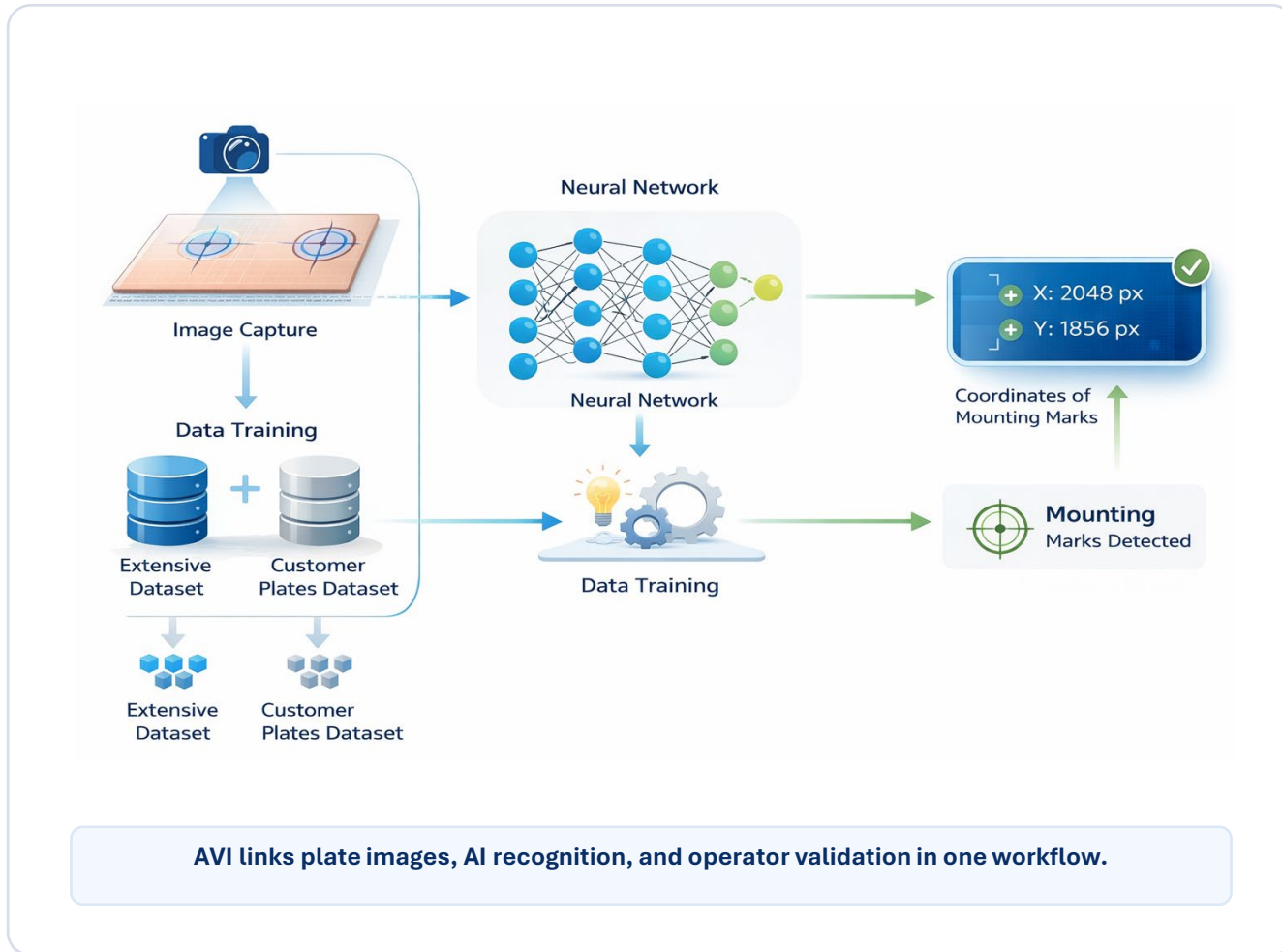
TOYOBO
Beyond Horizons

Request your special
AV Flexologic Package
Tech Sleeves Package

ADVANCED VISUAL INTELLIGENCE

How AVI works

AVI uses convolutional neural networks (CNNs) to detect and recognize mounting marks. The model can learn from AV Flexologic image data and customer plate data captured on site for better real-world performance.



CORE PRINCIPLE

A practical AI engine for flexo production.

Instead of relying only on perfect presets, AVI improves recognition by learning from real production imagery and customer-specific plate conditions.

Detect Mounting marks are identified automatically in the incoming image stream.

Learn The model learns variation, wear, and production-specific mark behavior over time.

Adapt Training can use AV data plus customer plate images to improve fit at site level.

Outcome: stronger recognition under real customer production conditions

ADVANCED VISUAL INTELLIGENCE

Why AVI matters

When standard vision struggles, AVI keeps mounting moving. AVI is designed for real production conditions — where marks are not always clean, identical, or perfectly presented.

01

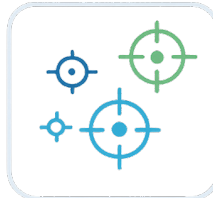
Damaged marks



Detects damaged or partially obscured marks that conventional systems may fail to see.

02

Small / non-standard



Expands the range of compatible plates and challenging mark types.

03

Plate variation



Compensates dynamically for out-of-spec conditions and plate-to-plate variation.

04

Older plates

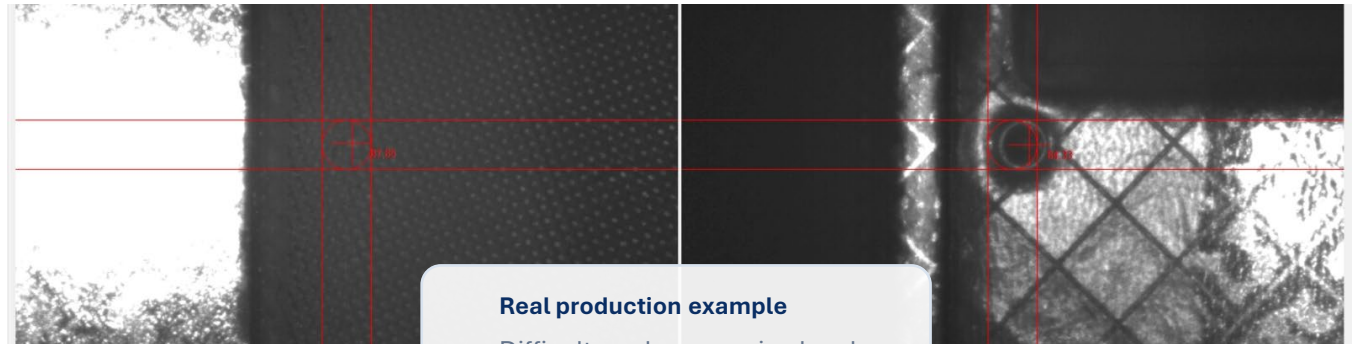


Works across legacy plates and changing mark conditions without repeated reconfiguration.

Result

Faster setup, fewer missed marks, and more consistent mounting performance.

- Less manual tuning
- Higher first-time-right performance
- More uptime on difficult jobs



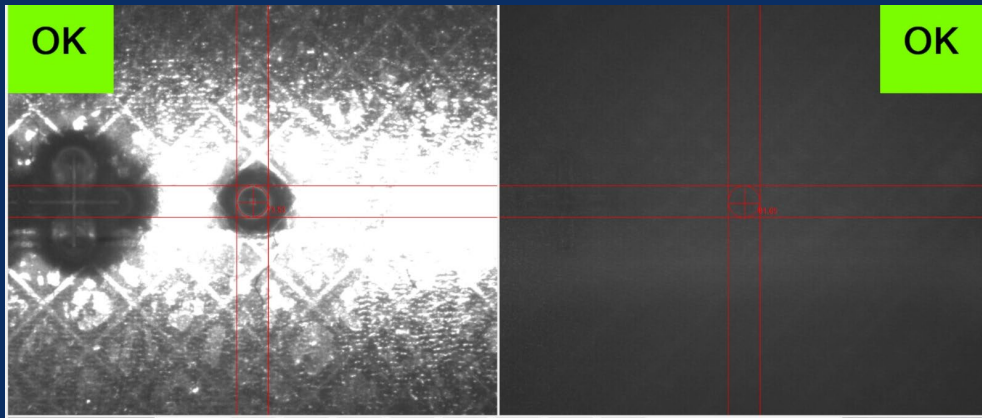
Real production example

Difficult marks recognized and validated in-line.

ADVANCED VISUAL INTELLIGENCE

From detection to documentation

Real-time quality control built directly into the mounting workflow.



AVI identifies and verifies marks in-line — then creates a usable quality record for every mount.

Built for real production conditions

- Damaged, small or non-standard marks
- Plate-to-plate variation and out-of-spec conditions
- Legacy plates and changing mark quality

1

Detection

AI identifies and locates mounting marks on the plate, even under difficult conditions.

 Detect

2

Recognition

The system differentiates between mark types and adapts to what it sees.

 Recognize

3

Quality check


Real-time verification confirms the plate is in register before it goes to press.

 Validate

4

Traceability

Every mount can be documented automatically for reporting, analysis, and fewer claims.

 Document

ADVANCED VISUAL INTELLIGENCE

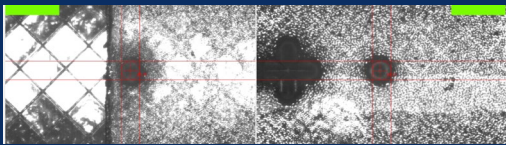
Operational impact

What AVI improves on the shop floor. AVI reduces the need for manual intervention by making recognition more robust and quality control more automatic.

First-time-right mounting with less operator effort.

AVI shifts recognition robustness from recipe perfection to real production adaptability.

- Less repeated adjustment
- Reduced dependence on expert operators
- Stronger quality verification



ADVANCED VISUAL INTELLIGENCE

Compatibility & retrofit

AVI can be deployed across the AV Flexologic range and offered as a retrofit where indicated — relevant for both new machine sales and installed machines in the field.

Machine platform

AVI availability

FAMM 3.0

● Available

SAMM 3.0

● Available

SAMM 2.0

● Available

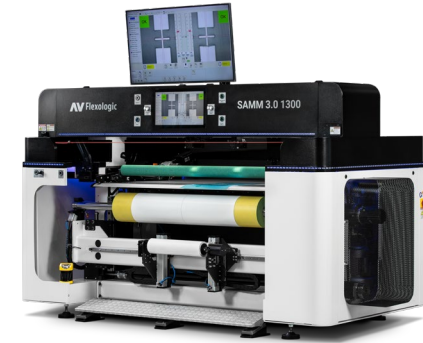
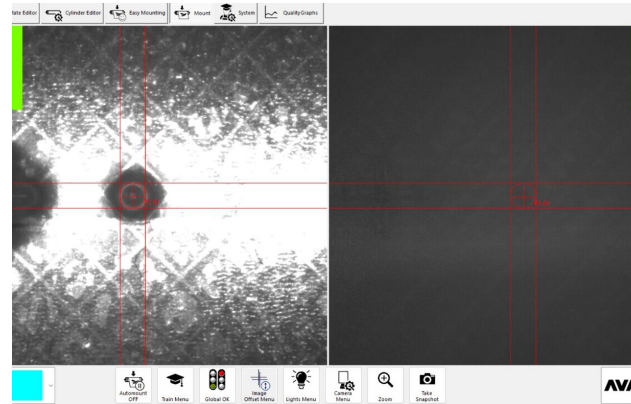
MOM DD+ Pro (with image recognition)

● Available

Flatmount Corrugated

● Available

System requirement: W10 Fanless PC or later



A practical upgrade path

- Installed base retrofit where indicated
- Future machine specifications
- Consistent AVI workflow across platforms



Relevant for both new sales and field upgrades

ADVANCED VISUAL INTELLIGENCE

AVI – Proven in production. Customer feedback from live installations

“



“We have implemented AV Flexologic's Advanced Visual Intelligence (AVI) on our SAMM 3.0 plate mounting equipment. This innovation has transformed our workflow by recognizing even the most challenging register marks with unmatched precision.

The result: faster setups, fewer errors, and consistent top-quality print performance. AVI helps us boost efficiency and reliability, ensuring we deliver the highest value and quality packaging to our customers.”

David Saxon
Print Manager



“



“As a growing manufacturer, we chose Flexologic's SAMM 3.0 to boost accuracy.

When we encountered issues with our dots recognition, their team developed and implemented an innovative AI-based solution (AVI) that completely solved the problem.

We've been successfully relying on their automatic mounting for months and deeply appreciate their support.”

Laurynas Straukas
Director of the Production Department



“

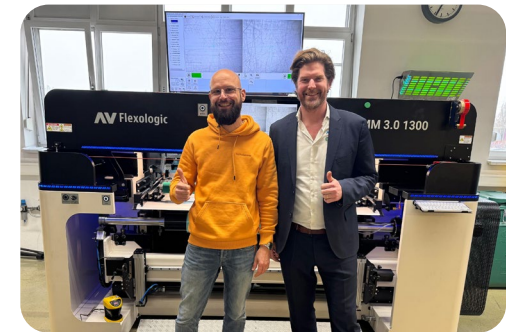


“AV Flexologic implemented their unique AVI solution - and the difference was remarkable.

The Advanced Visual Intelligence system eliminated our recognition issues, greatly improved ease of use, and boosted the machines overall performance.

For us, AVI is a true game changer. We now plan to go in three shifts to unlock the full potential of this machine

Georg Eberhart
Managing Director



ADVANCED VISUAL INTELLIGENCE

Investment & ROI

AVI is a low investment software with a clear operational payback through faster setup, less operator input, stronger tolerance to plate variation, and more accurate mounting.

€159,-
per month
or included FOC in AVF Care

= €1900 / year

Excludes any potential hardware upgrades required and installation cost.

Break-even can be very short if AVI saves only a few operator or setup hours per month.

 **Quicker operation**

Less time lost searching for or reworking difficult marks.

 **Much less operator input**

More of the recognition work is handled automatically in the workflow.

 **More forgiving**

Better handling of out-of-spec plates, damaged marks, and real-world plate variation.

 **More accurate**

More consistent positioning, verification, and repeatable mounting quality.

Lightning-quick ROI: 100-200hrs operator time saved per year

Included in new AVF Care contracts Level 2 + 3 – Free Of Charge

Service Plans Included in new **AVF Care** contracts Level 2 and 3 – Free Of Charge

Protect your investment and maximise uptime. Every AVF Care plan includes direct access to our factory-trained engineers and genuine OEM parts.

MOST POPULAR

Level 1 Basic

Essential coverage for standard operations

- ✓ Knowledge Base Access
- ✓ Training Videos
- ✓ Remote Support
- ✓ Spare Parts Discount (10%)
- ✗ Software Upgrades
- ✗ Yearly On-site Maintenance
- ✗ AVI License Included
- ✗ Extended Warranty
- ✗ 24/7 Priority Support

Get a Level 1 Quote

Level 2 Enhanced

Proactive maintenance & faster resolution

- ✓ Knowledge Base Access
- ✓ Training Videos
- ✓ Remote Support
- ✓ Spare Parts Discount (15%)
- ✓ Software Upgrades
- ✓ Yearly On-site Maintenance
- ✓ AVI License Included
- ✗ Extended Warranty
- ✗ 24/7 Priority Support

Get a Level 2 Quote

Level 3 Full Extended Warranty

Complete peace of mind — all-inclusive

- ✓ Knowledge Base Access
- ✓ Training Videos
- ✓ Remote Support
- ✓ Spare Parts Discount (20%)
- ✓ Software Upgrades
- ✓ Yearly On-site Maintenance
- ✓ AVI License Included
- ✓ Extended Warranty
- ✓ 24/7 Priority Support

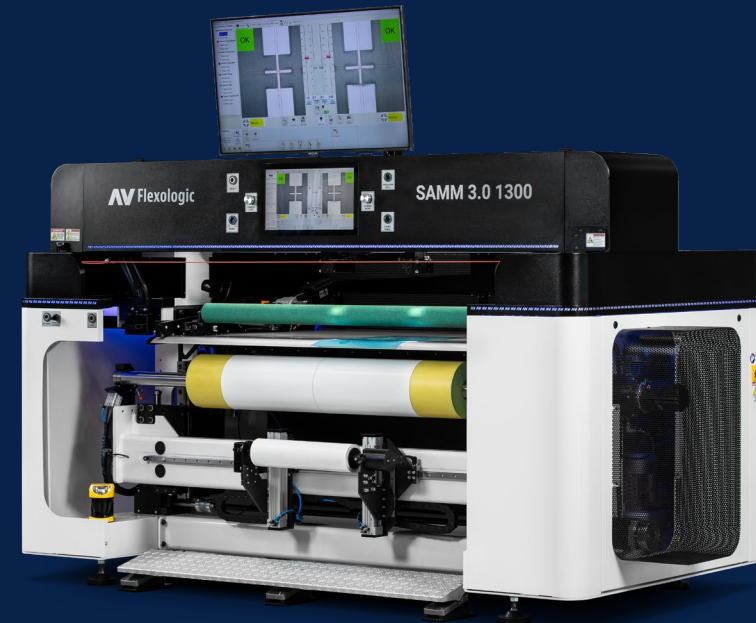
Get a Level 3 Quote

**More robust mark recognition.
Less setup effort.
Reliable plate mounting.**

AVI helps flexo operations move faster and mount with greater confidence — even when mark quality is not ideal.

- Available across key AV Flexologic machine platforms
- Retrofit path for selected installed machines
- Built for real-world plate and mark variation
- Ask us for a demo on your next machine or installed base

[Ask for a live AVI demo](#)



Detect • Recognize • Validate • Document