

DEPLOYING AN OEM AR SUPPORT TOOL: THE VALUE OF ENABLING END CUSTOMERS

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## **PRESENTER**

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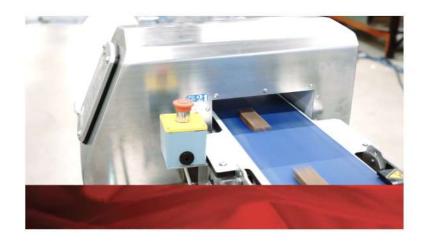


Smart Connect Machines & Digital Transformation at Harpak Ulma



## HARPAK-ULMA PACKAGING A PICTURE IS WORTH A THOUSAND WORDS ...

## **HARPAK ULMA**





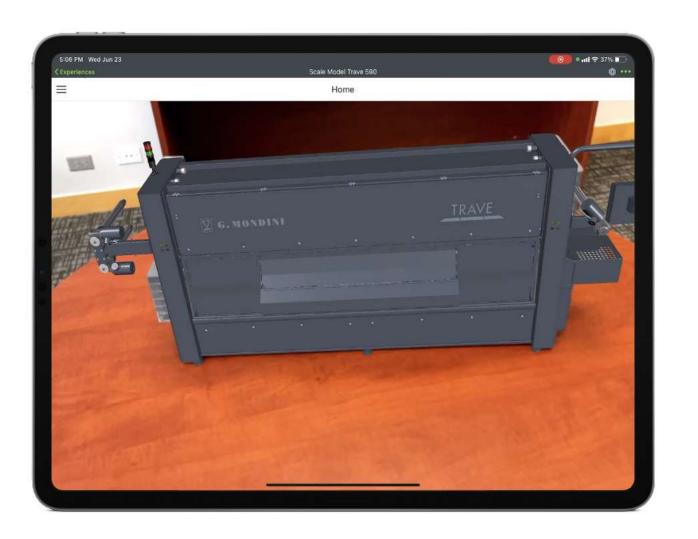






## WHY DOES DIGITAL TRANSFORMATION MATTER?

Digital allows us to do almost everything better, faster and more scale-ably





HARPAK
ULMA - FIELD
TECHNICIAN
OPTIMIZATION



CUSTOMER

## **USE CASES**



**Training**Rich, effective training anywhere anytime



Work Instructions
Empower front-line workers with
"On-demand" knowledge



## Inspection & Checklists

Structured enforcement of complex tasks reduces/eliminates human error (DIY possible)



## Remote Collaboration

Rich, visually interactive interface reduces service call cost/time



## Real-time Performance Monitoring & Analytics

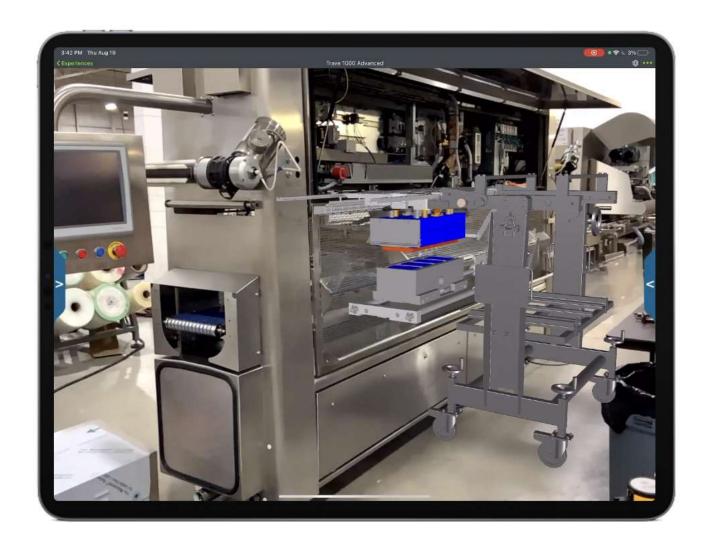
Visualization/diagnosis in physical machine context

## **TRAINING**

Visualize learning for complicated processes

Capture expert knowledge for training purposes

Train anytime, anywhere

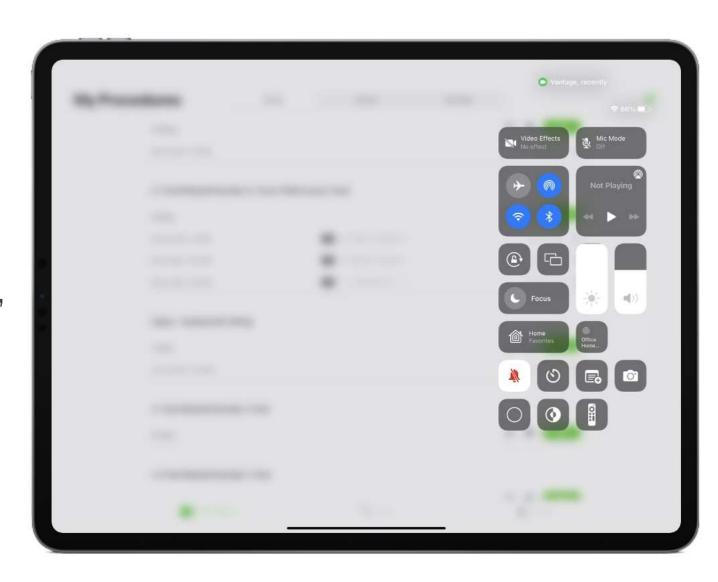


## **WORK INSTRUCTIONS**

 Visualize learning for complicated processes similar to training content

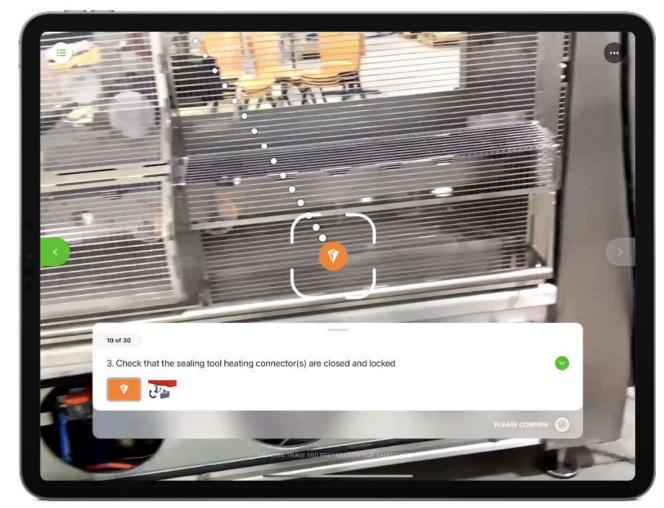
Integrates AI 'Step Check'

 Significantly reduces training needs



INSPECTION INSTRUCTIONS AND COMPLIANCE CHECKLISTS

- Enforce step-by-step procedures in order
- Digital audit checklists
- Record data & pictures for compliance and traceability
- Immediate digital record versus paper-based



### REMOTE COLLABORATION AND ASSISTANCE

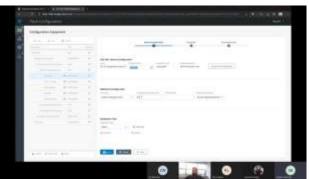
- Interactive visual collaboration with experts
- Eliminates time & cost of onsite service calls
- Reduces Mean-Time-To-Repair (MTTR)



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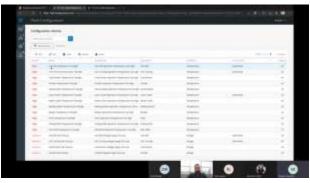
## **OEE ASSET MONITORING**



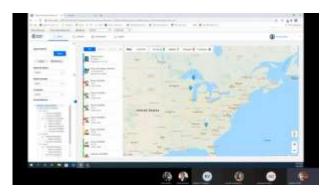


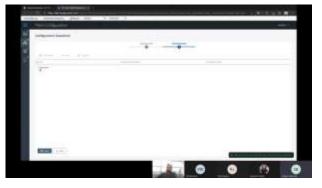














## WHY DIGITAL TRANSFORMATION MATTERS

#### Barriers to Transformation

#### **Bureaucracy**



Silo'd systems and processes prevent the creation of a digital thread

#### Cybersecurity



Concerns about vulnerabilities kill initiatives

#### **Skills Gaps**



Legacy organizations are unwilling to invest in talent

#### **Tribal Thinking**



Many organizations have a deep cultural resistance to change

## WHY DIGITAL TRANSFORMATION MATTERS

### Building a Digital Transformation Strategy

#### **Vision & Leadership**



The need to for leaders to have a clear roadmap and end goal

#### **Engagement**



There must be buy in from the lowest levels to CXO to support these changes

#### **Digital Culture**



A culture built around digital tools will adapt better

## Move Fast & Break Things



Expect to and be willing to make mistakes and fail

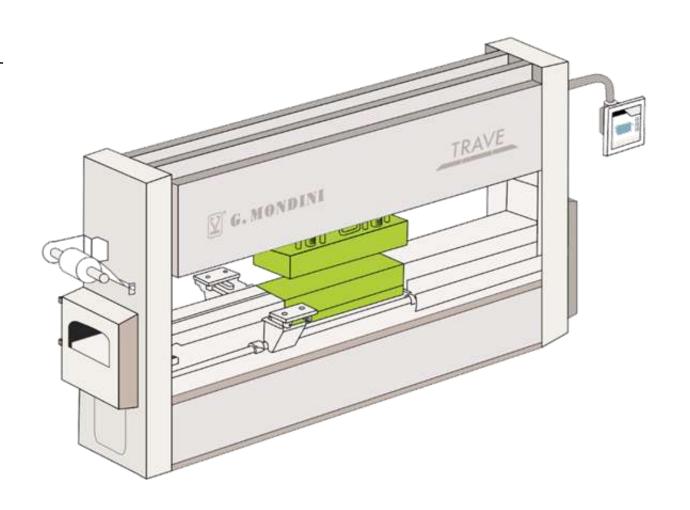
## THE OEM'S ROLE IN DIGITAL TRANSFORMATION

## **Adopt Enabling Technologies**

- Smart, connected machines and IoT
- □ Software skill sets
- Proprietary CAD data
- Contextualized data viz physical environment
- Expertise on packaging processes

## **Expose Machine Data**

- Key to root cause determinations
- Analytics drives actionable insight
- Al adoption accelerates





## AR ENABLES SELF SERVICE

The customer has more power than ever



Augmented Reality has reduced time to completion by up to 80% with complete removal in errors

## AR ALLEVIATES STAFFING CHALLENGES



## AR= AN OUTSIZED IMPACT ON PACKAGING

Work Instructions:

Speed - Rapidly upskill untrained/inexperienced staff

Virtual Training:

Flexibility - anywhere/anytime training

Remote Collaboration:

Cost - less need for flying in techs - self service capabilities

Remote Monitoring / Digital Twins:

Performance - continuous improvement, quickly sus out OEE misses

....

## THE BENEFITS OF AUGMENTED REALITY

Reduce Mean Time to Repair Reduced Number of Service Calls

0%

Improve First Time Fix Rate

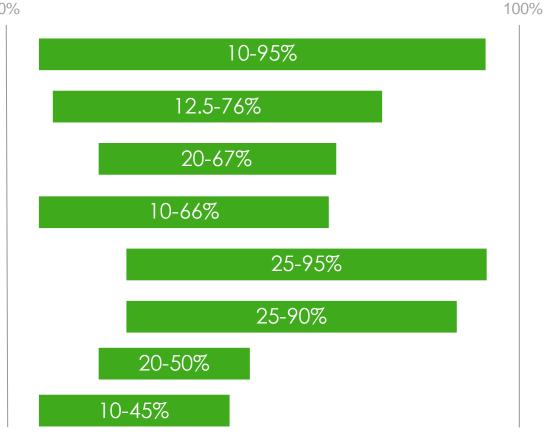
Lower Scrap & Rework

Improve New Hire Productivity

Reduce Time to **Author Content** 

Reduce Unscheduled Downtime

Improve Safety



These benefits have a tangible impact to customers...





## **TOOL REBUILD CASE STUDY**

#### **Problem**

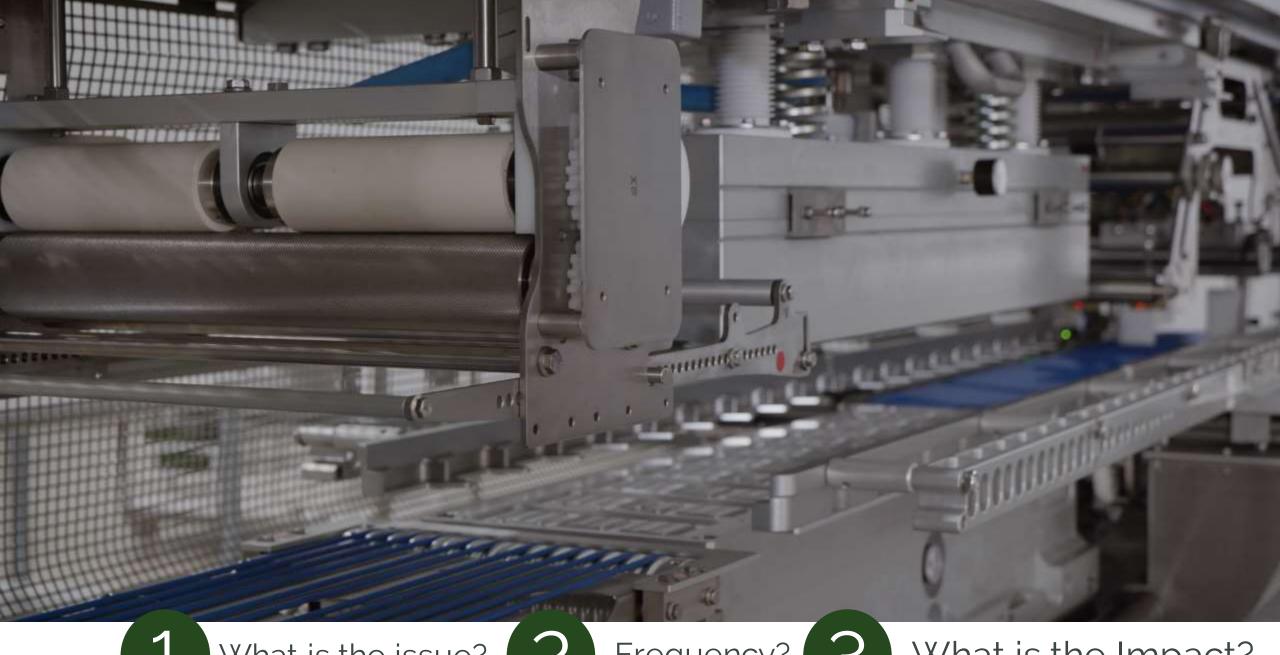
Tool Rebuilds are long, technical and error prone

### **Solution**

Use AR + AI to guide and correct in real-time

### **Impact**

- 80% Faster
- No Errors
- No Training
- Deployable to anyone, anywhere



What is the issue? 2 Frequency? 3 What is the Impact?





1 High Value 2 Complex 3 Repeatable













## TOOL REBUILD CASE STUDY RECAP

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Tool Rebuilds are long, technical and error prone

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Use AR + AI to guide and correct in real-time

### **Impact**

- 80% Faster
- No Errors
- No Training
- Deployable to anyone, anywhere
- Competitive advantage





Thank you! You can find me at:











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