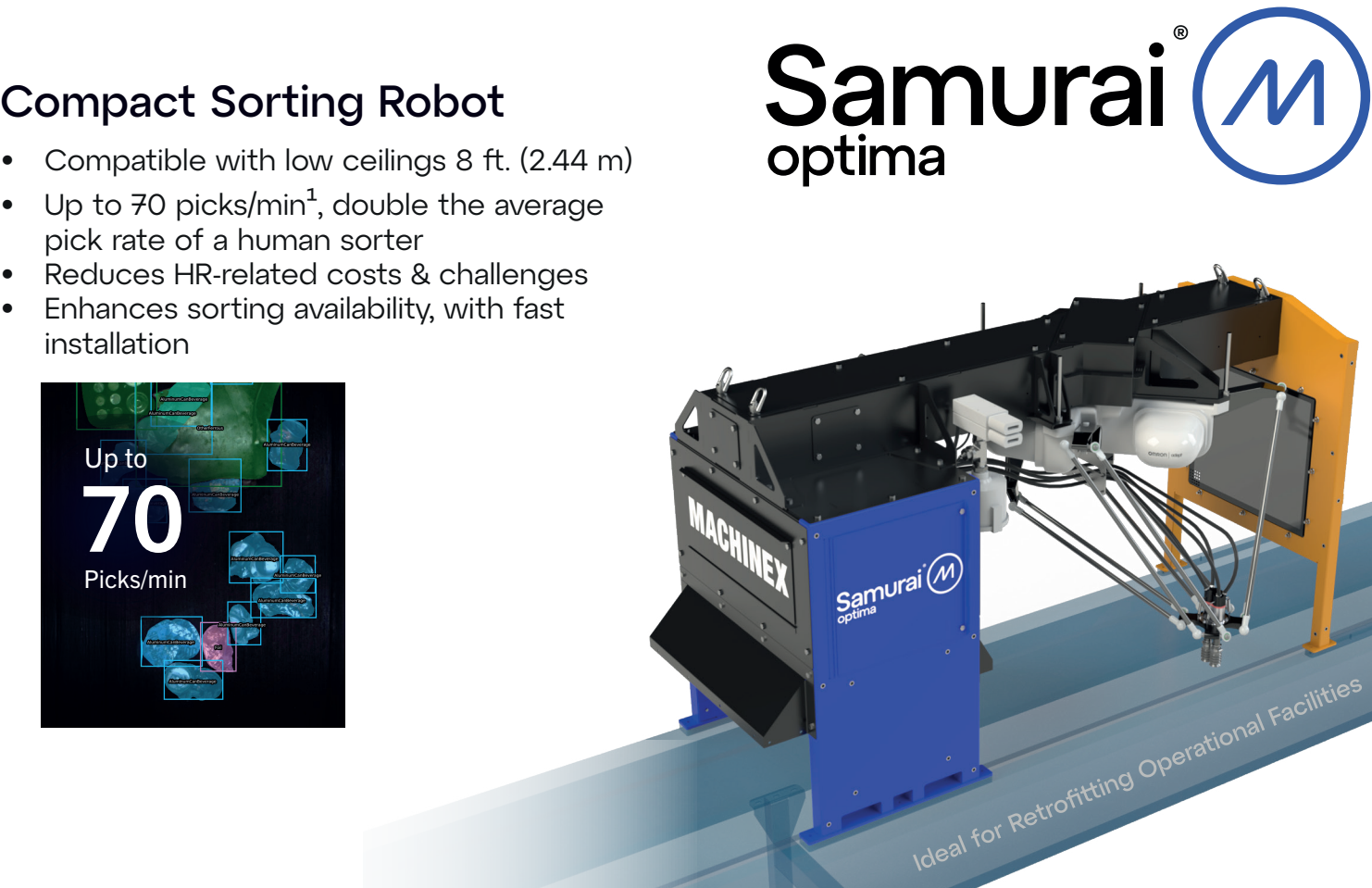
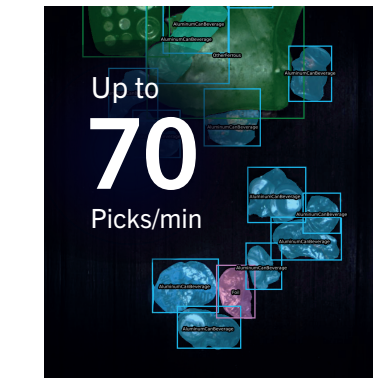


# Compact Sorting Robot

- Compatible with low ceilings 8 ft. (2.44 m)
- Up to 70 picks/min<sup>1</sup>, double the average pick rate of a human sorter
- Reduces HR-related costs & challenges
- Enhances sorting availability, with fast installation



The Samurai<sup>®</sup> optima<sup>™</sup> is a compact and cost-effective robot powered by MIND<sup>™</sup>, Machinex-Engineered AI, delivering the same advanced capabilities as the original Samurai<sup>®</sup>. It accurately identifies and sorts materials to ensure optimal recovery and improved quality control. With its space-efficient design, the Samurai<sup>®</sup> optima<sup>™</sup> can be integrated into a wider range of facilities and environments, reducing reliance on manual labor while enhancing overall operational efficiency.

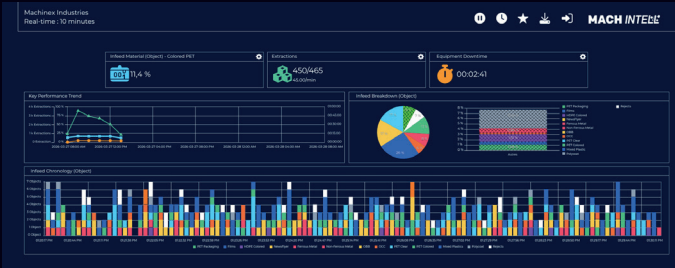
|                                          | Width                     | Length        | Height       | Working Envelope | Conveyor Width           |
|------------------------------------------|---------------------------|---------------|--------------|------------------|--------------------------|
| Samurai <sup>®</sup> Optima <sup>™</sup> | Adapted to conveyor width | 7'10" (2.39m) | 4'77" (1.4m) | 51" (1.3m)       | 24" - 60" (0.6 - 1.5 m)* |

*\*42-60" will require two single robot cells in staggered position*

## MACH INTELL<sup>™</sup>

Machinex's business intelligence platform extracts data from camera vision units. Its intuitive dashboard translates real-time data into clear visibility of material streams and provides key performance indicators MRF operators need to optimize performance such as:

- Flow Composition
- Material Trends Per Given Period
- Quantity Per Material Type



*1 The performances could vary depending upon the variations of tonnage & material composition, quantity, material spread, etc.*



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Installation Time  
1 - 1 ½ days

1. Powered by MIND™  
Machinex-Engineered AI

2. Compact Cantilever Design  
Mounted directly above the  
conveyor

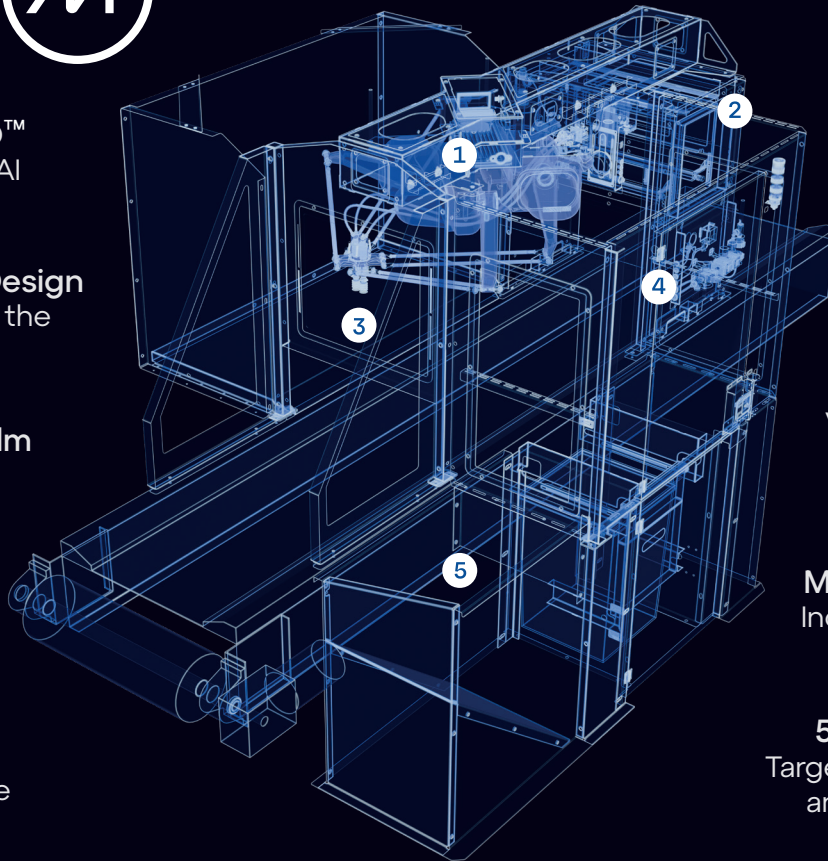
3. Automated Plastic Film  
Handling System  
To reduce downtime

4. Ergonomic Design  
Easy access for  
preventive maintenance

No Compromise  
on Performance  
VS. the original Samurai®

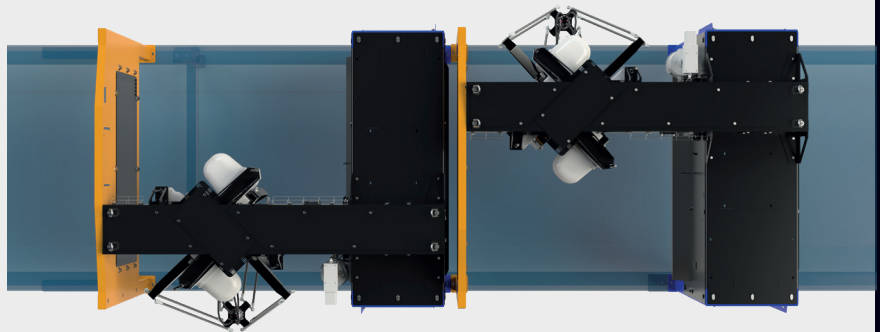
No Daily  
Maintenance Required  
Increased system uptime

5. Material Handling  
Targets designated products  
and sort them into the  
respective chutes



## Adaptable Configuration

For wider conveyors (42 to 60 inches), multiple single robotic cells can be installed in an offset position to ensure optimal material coverage.



# MIND™

## Artificial Intelligence for Sorting Operations

Combines computer vision, machine learning & real-time decision-making

## Data Accessible Through MACH Intell™

Detects & classifies materials, turns insights into operational decisions & enhances picks

## Purpose-Built for the Waste & Recycling Industry

Has been developed, deployed & proven in real operating facilities since 2019

# ENGINEERED BY MACHINEX