mk North America

Conveyance for Battery Manufacturing

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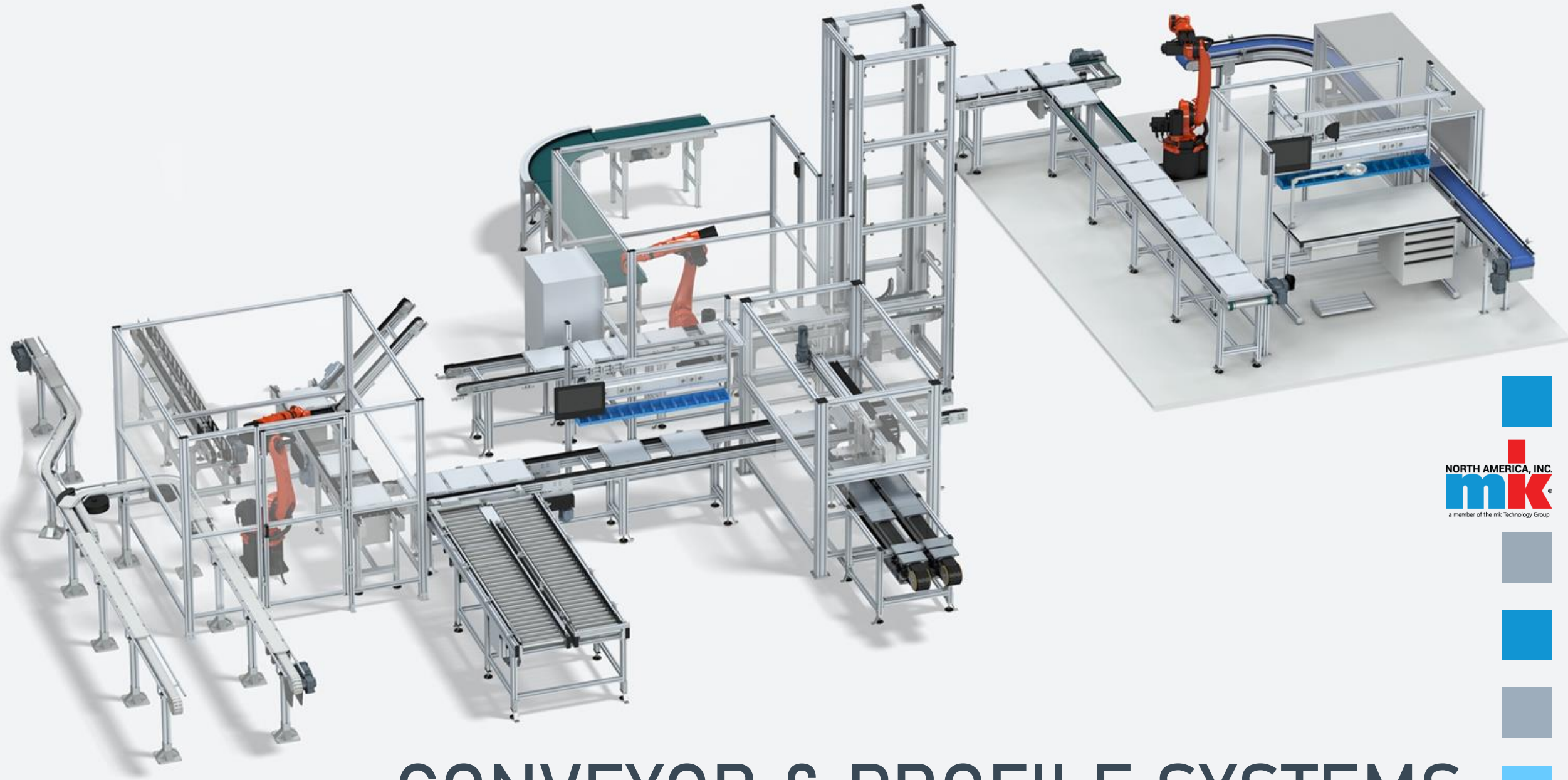

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CONVEYOR & PROFILE SYSTEMS

CONVEYOR SOLUTIONS

FOR ALL PHASES OF EV-BATTERY PRODUCTION

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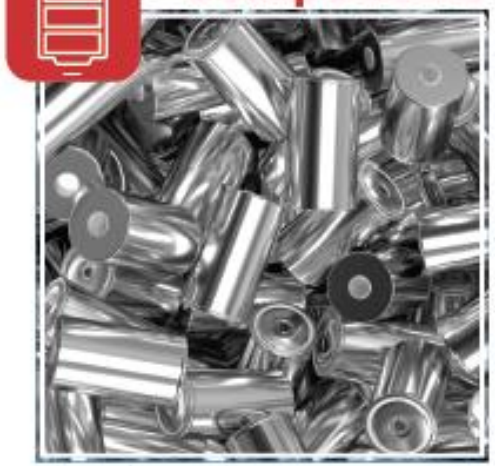
Cell Components



The various cell components used to manufacturer batteries are best conveyed on conveyors designed for bulk product handling.

Cell Production

Battery cell production is considered a single-piece flow conveyor application. In these applications the cells can be conveyed as-is or in a puck.

Module Assembly

Shifting into battery module assembly means a shift in conveyor style and requires the use of conveyors that are capable to heavy loads with a wide footprint.

Battery Testing

Twin-track conveyors designed for heavy loads with precision locating capabilities are necessary for testing the complete battery pack assembly.

WORKING FOR YOU

better products.
better solutions.

Why mk North America

mk North America offers conveyor solutions for all aspects of ev-battery manufacturing: electrode production to cell production, and from battery assembly to battery testing. Our broad range of conveyor platforms, combined with mk's structural aluminum extrusion makes mk North America your supplier for all of your ev-battery production needs.

mk North America also prides themselves as being not only the supplier of a better product, but also a better solution. When you work with mk North America you are working with a company that is dedicated to your success.

CELL COMPONENTS

Raw Material

- For transportation of specialty materials used in batteries
- Wide variety of conveying platforms
- Flexible designs for complex layouts
- Custom construction to meet strict requirements

Bulk Parts

- Transportation of battery cell components to final assembly
- High payload capacity & throughput rates
- Part metering

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FLEXIBILITY FOR TRANSPORTING RAW MATERIAL THROUGH COMPLEX LAYOUTS

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BULK TRANSPORTATION OF CELL SUB-ASSEMBLY COMPONENTS

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BULK COLLECTION & PART METERING -HOPPERS, CHUTES & OTHER ADD-ONS

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STAINLESS STEEL CONSTRUCTION FOR SPECIALTY MATERIAL HANDLING

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CELL PRODUCTION

Fast

- Designed for high throughput applications
- Constant flow of product

Flexible

- Wide range of standard accessories designed for modularity
- Infinite configurations & layout possibilities

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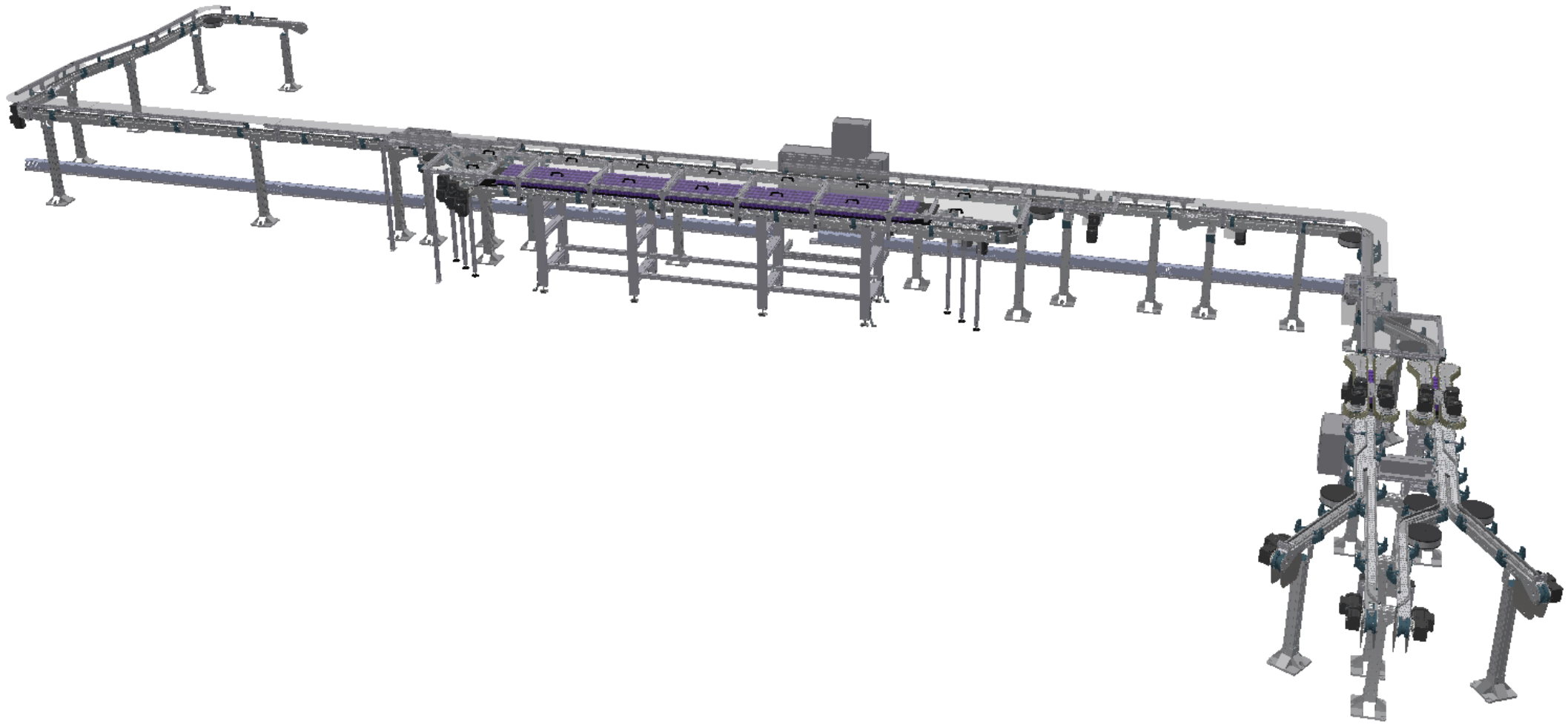
FLEXIBLE, COMPLEX LAYOUTS WITH MULTIPLE PROCESSES



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BI-FLOW TABLES FOR PART BUFFERING

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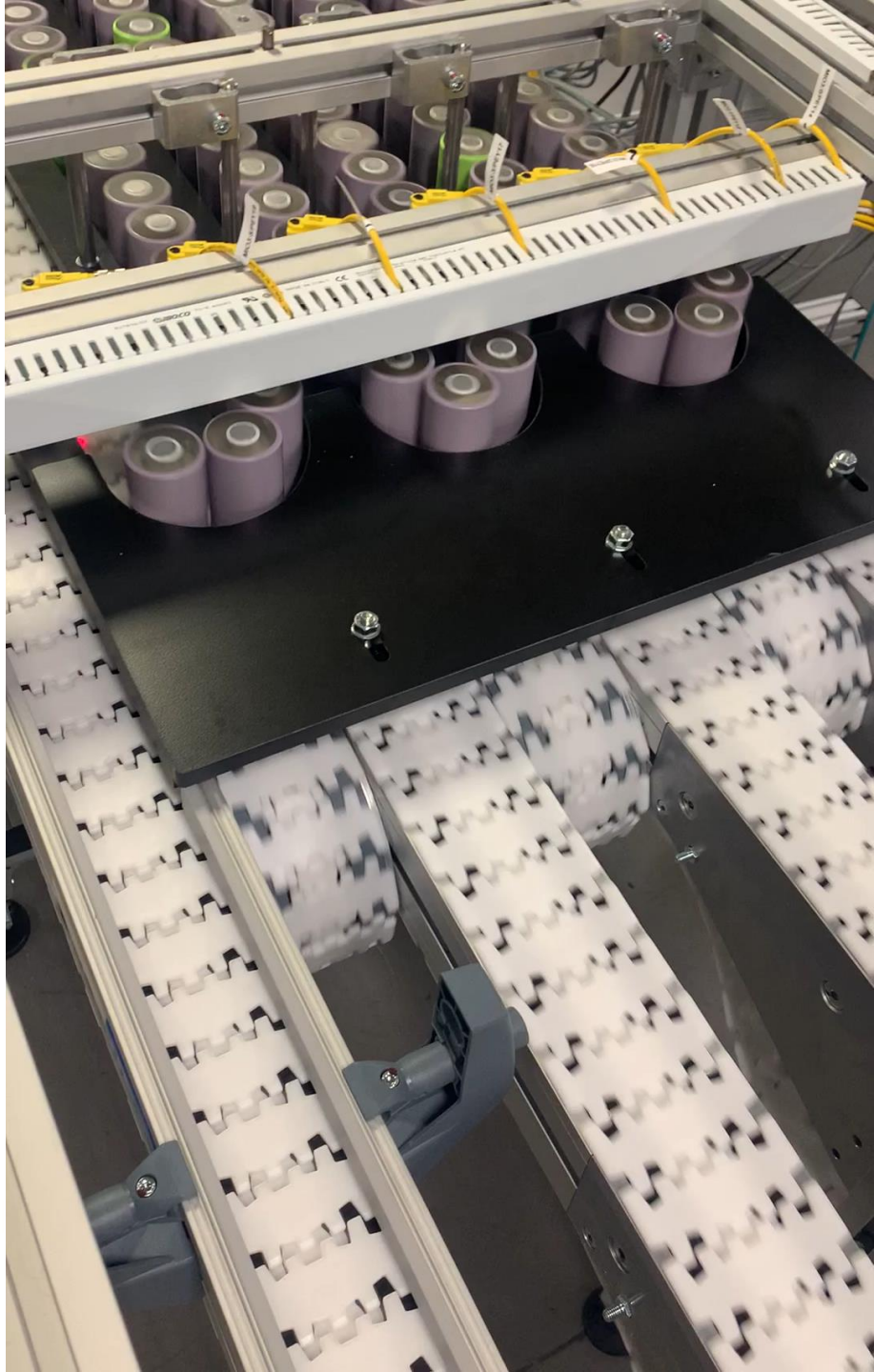
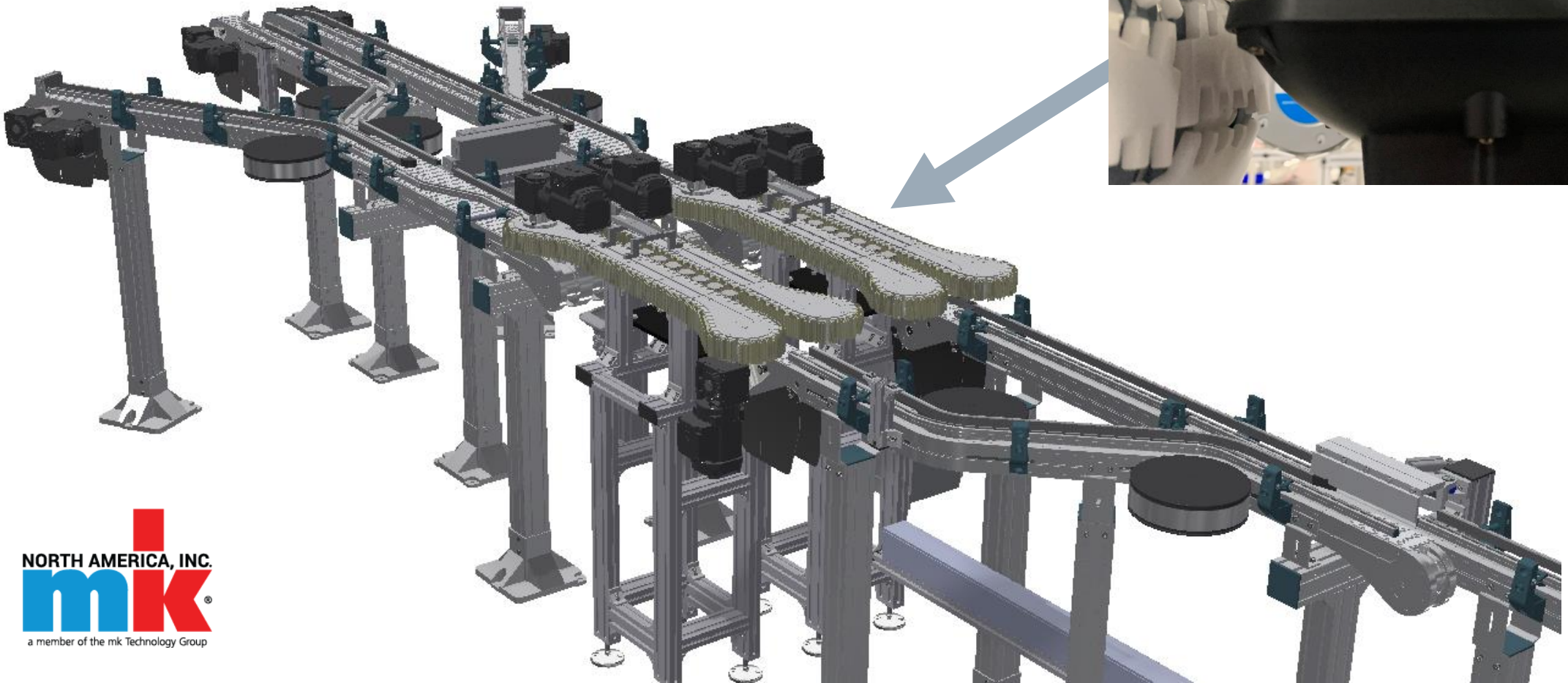


ACTIVE & PASSIVE LANE DIVERSION

UNDERSIDE INSPECTION



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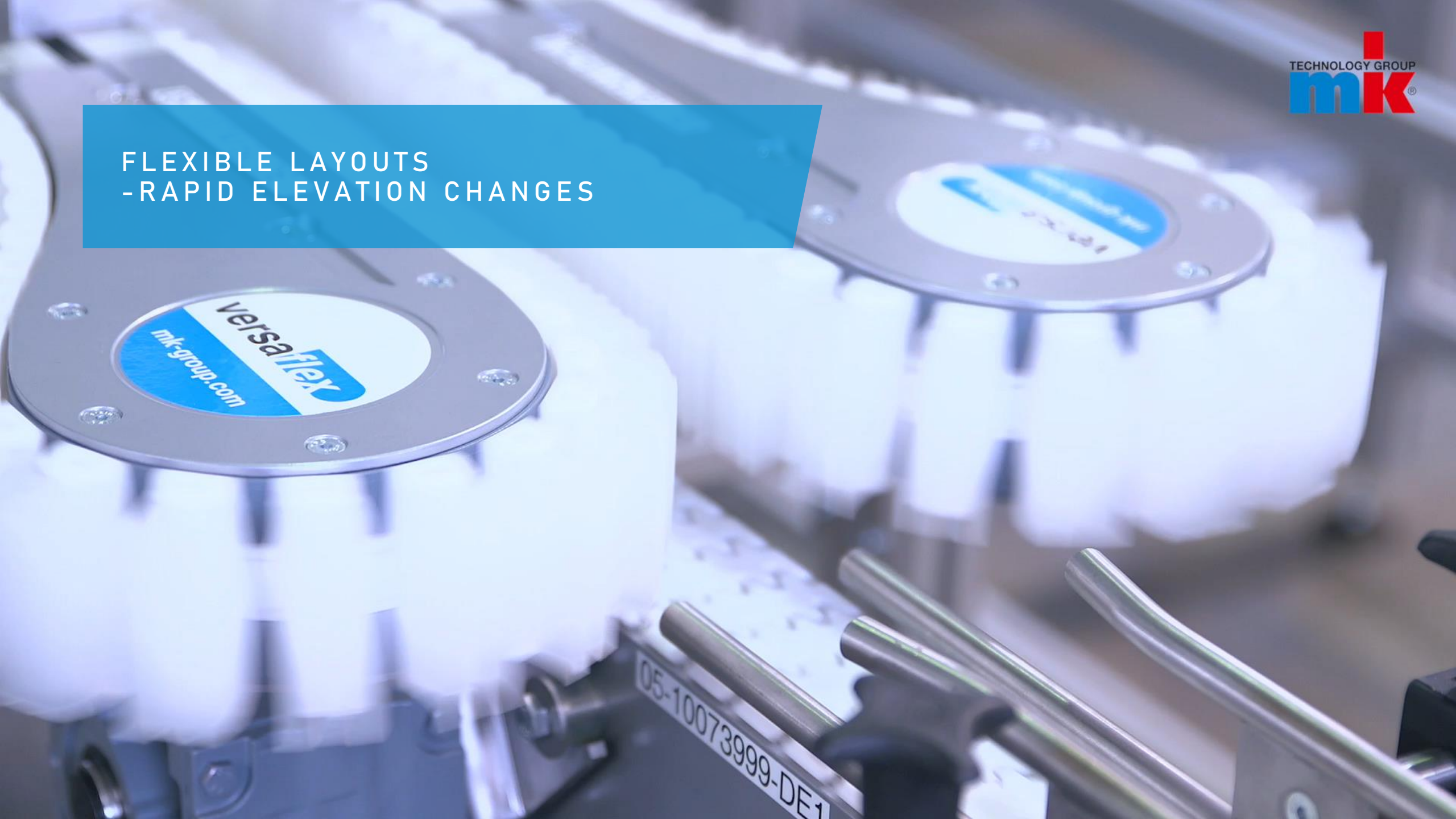
FLEXIBLE LAYOUTS
-RAPID ELEVATION CHANGES



MODULE ASSEMBLY

Customizable

- Flexibility in component design can accommodate irregular shapes

Specialized Features

- High load capacities for large, dense pack assemblies
- Antistatic/ESD materials
- Locating units for repetitive positional accuracy

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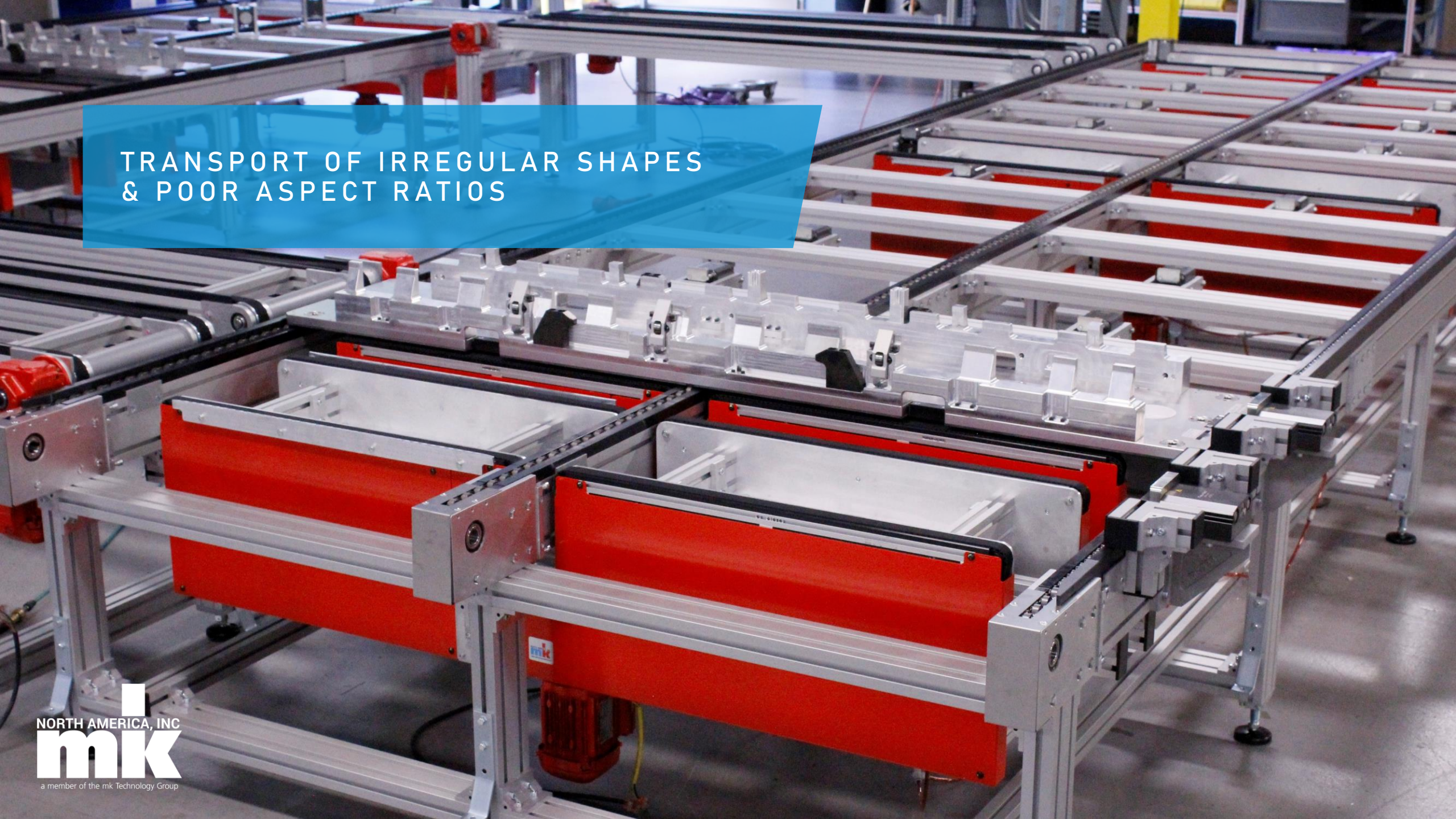

TRANSPORT OF IRREGULAR SHAPES & POOR ASPECT RATIOS

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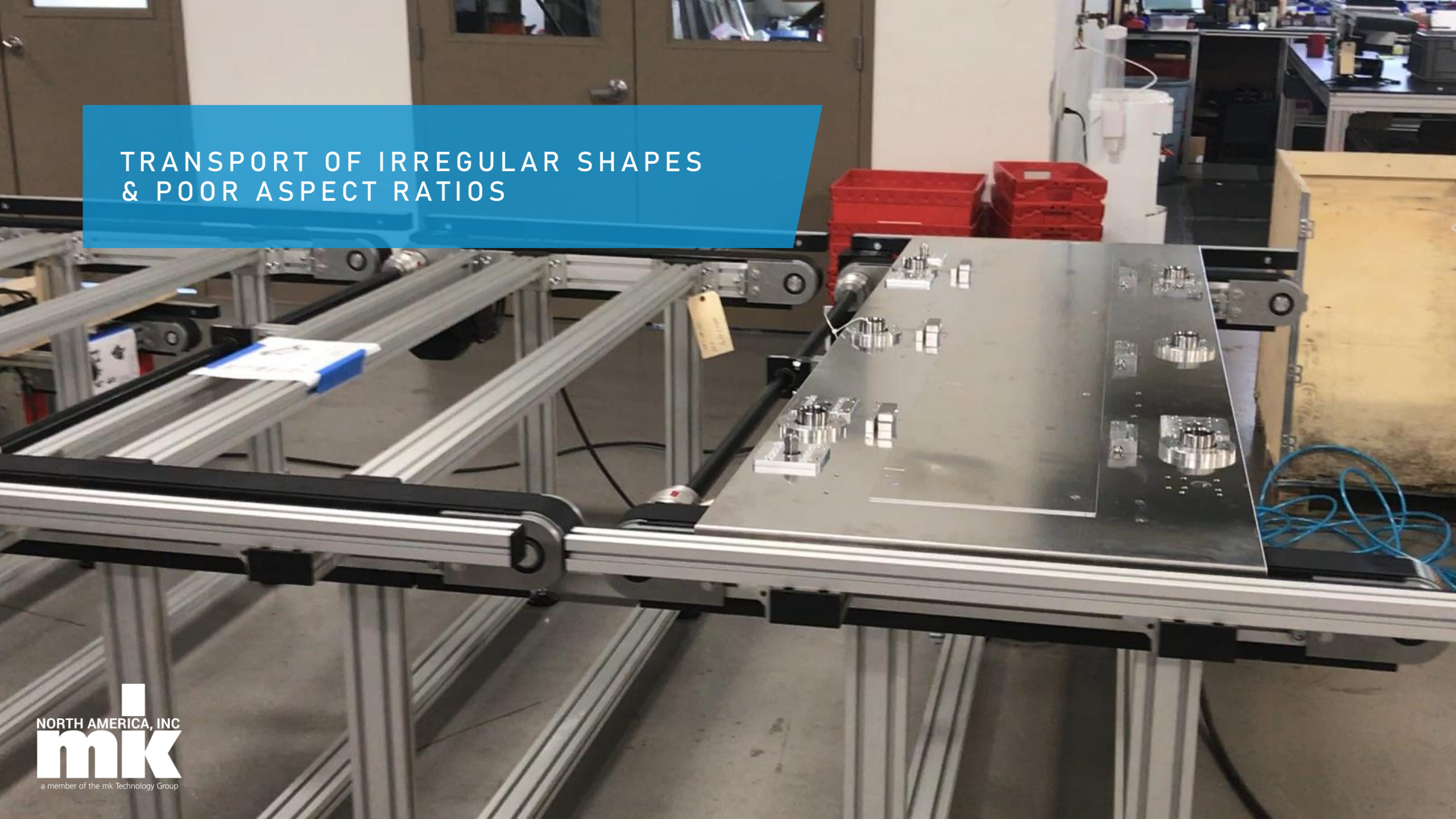
TRANSPORT OF IRREGULAR SHAPES & POOR ASPECT RATIOS



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TRANSPORTING PRODUCT WITHOUT TRADITIONAL BASE PALLET

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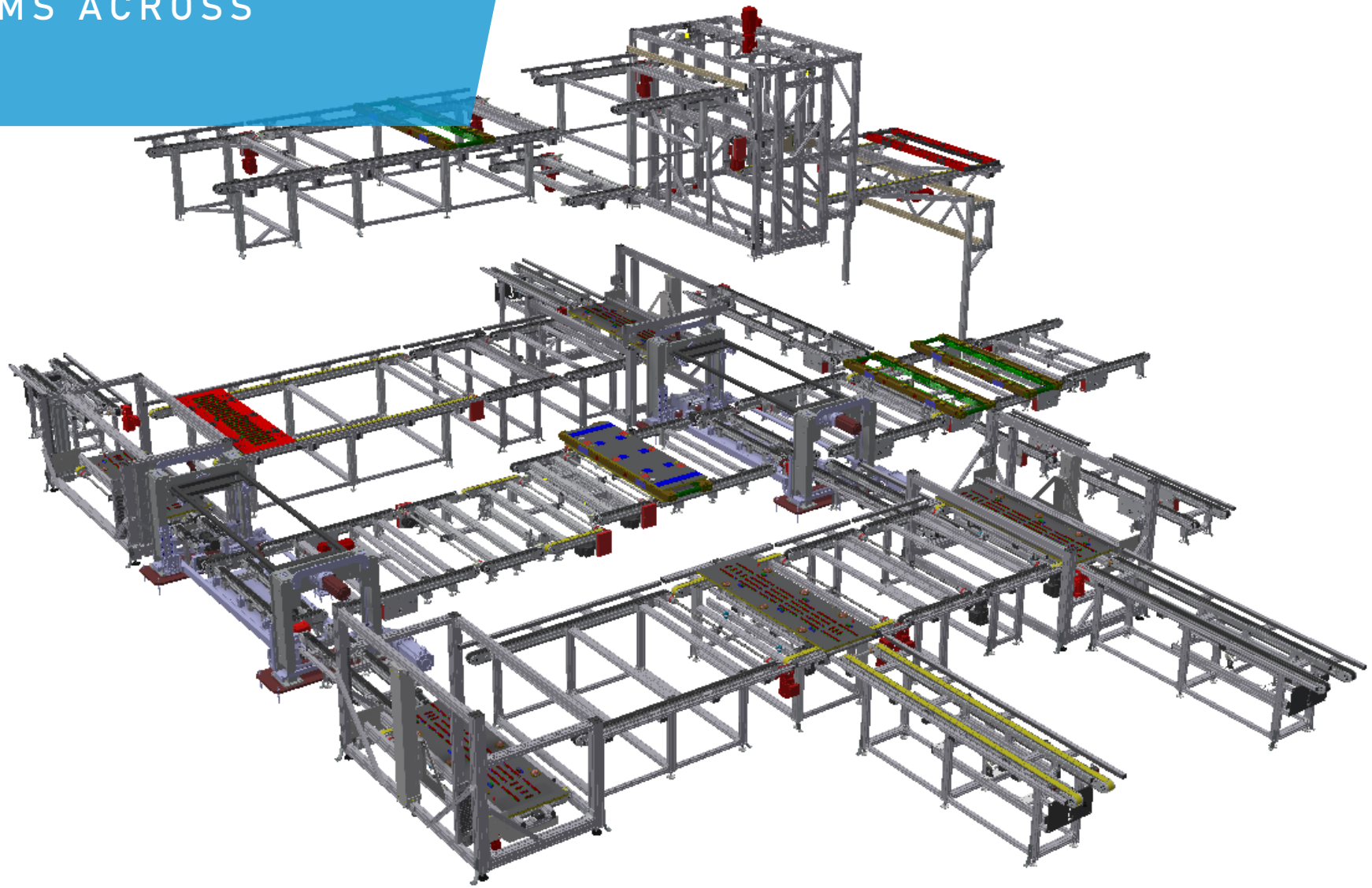
MULTI-LEVEL SYSTEMS ACROSS MULTIPLE FLOORS



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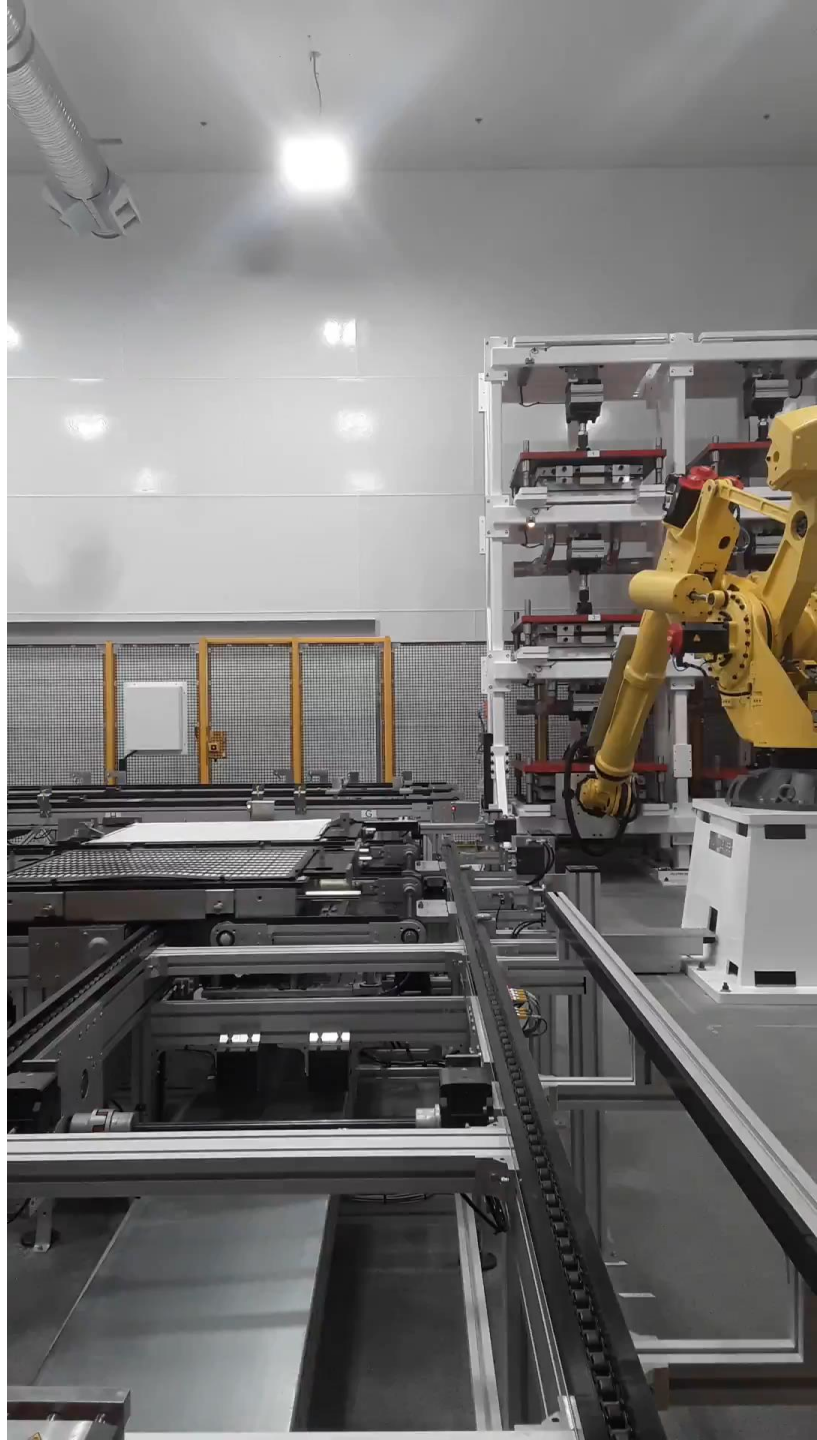
DESIGNED FOR AUTOMATION
-LOCATING FOR PRECISE OPERATIONS



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BATTERY TESTING

Safety

- Zoned (zero back-pressure) options available to separate live battery modules
- Antistatic/ESD materials
- Spur conveyors to isolate testing cells from mainline operators

Specialized Features

- High load capacities for large, dense pack assemblies
- Locating units for repetitive positional accuracy

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CONSTRUCTED FOR BATTERY TRANSPORT
- ANTISTATIC WEAR STRIPS
- ANTISTATIC BELTS
- GROUNDING OPTIONS

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NON-ACCUMULATING ZONES FOR
ZERO CONTACT BETWEEN MODULES
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DESIGNED FOR INTEGRATION WITH TESTING EQUIPMENT

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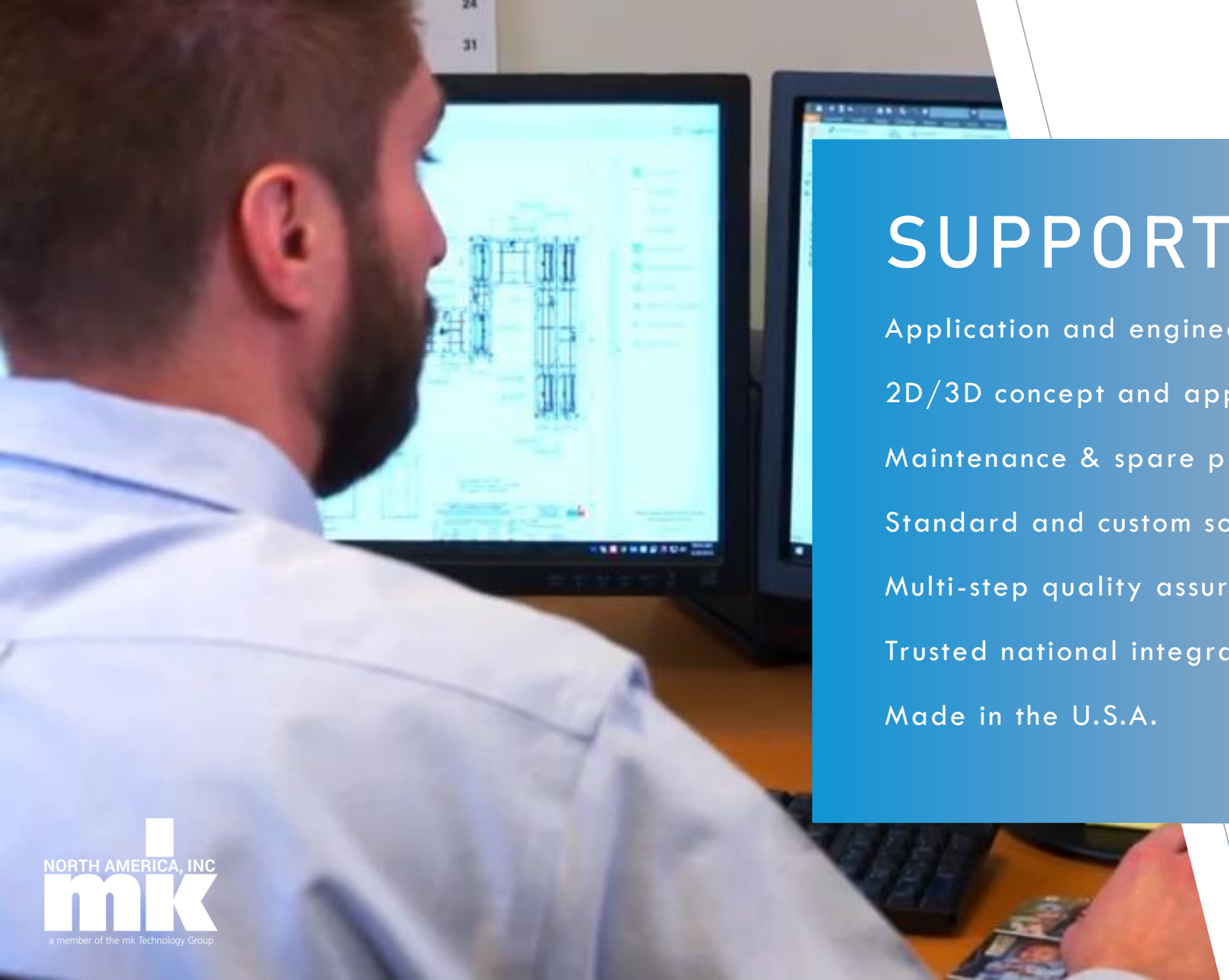

SUPPORT

Application and engineering support

2D/3D concept and approval drawings

Maintenance & spare part documentation

Standard and custom solutions

Multi-step quality assurance

Trusted national integration partners

Made in the U.S.A.

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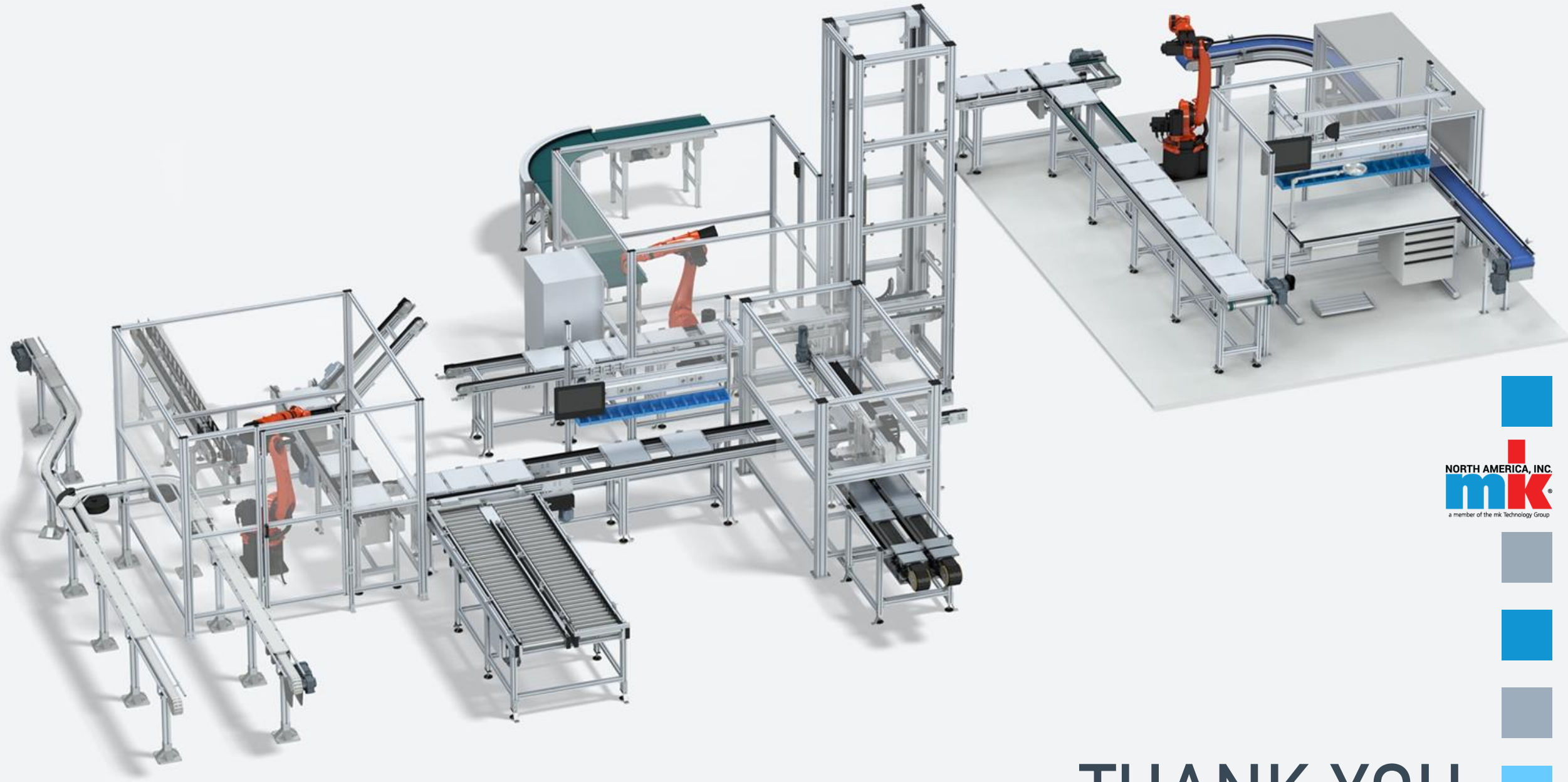

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THANK YOU