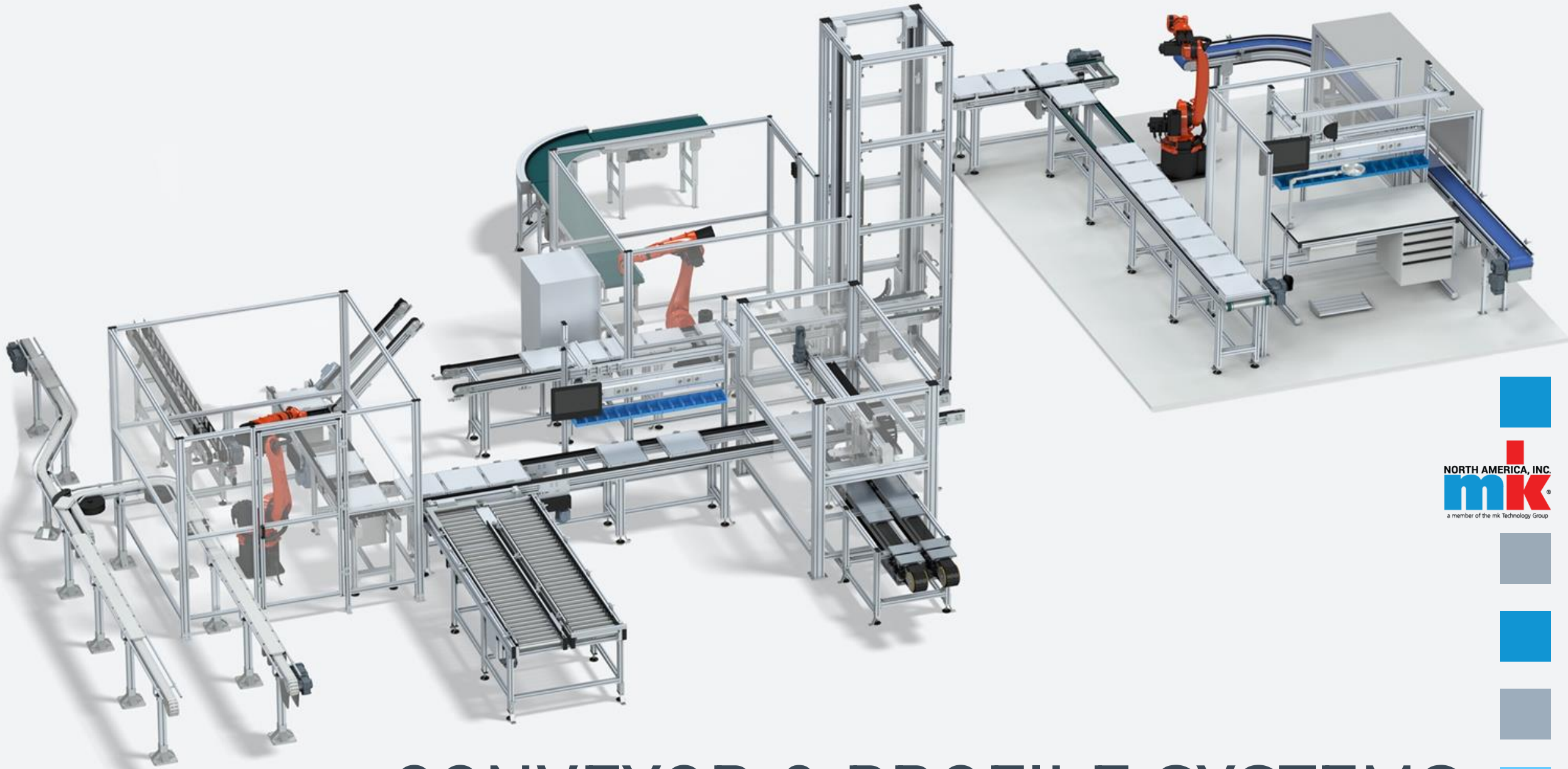


mk North America

Conveyance for
Battery Manufacturing



CONVEYOR & PROFILE SYSTEMS



CONVEYOR SOLUTIONS

FOR ALL PHASES OF
EV-BATTERY PRODUCTION

Cell Components



The various cell components used to manufacture 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

FLEXIBILITY FOR TRANSPORTING RAW
MATERIAL THROUGH COMPLEX LAYOUTS



BULK TRANSPORTATION OF CELL SUB-ASSEMBLY COMPONENTS



A large industrial hopper filled with grey cylindrical parts, likely a component of a manufacturing process. The hopper is made of metal and has a blue text overlay. The parts are stacked and appear to be made of a dark metal or plastic. The hopper is part of a larger machine, with various metal beams and supports visible. The background is a plain, light-colored wall.

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



STAINLESS STEEL CONSTRUCTION FOR SPECIALTY MATERIAL HANDLING

CELL PRODUCTION

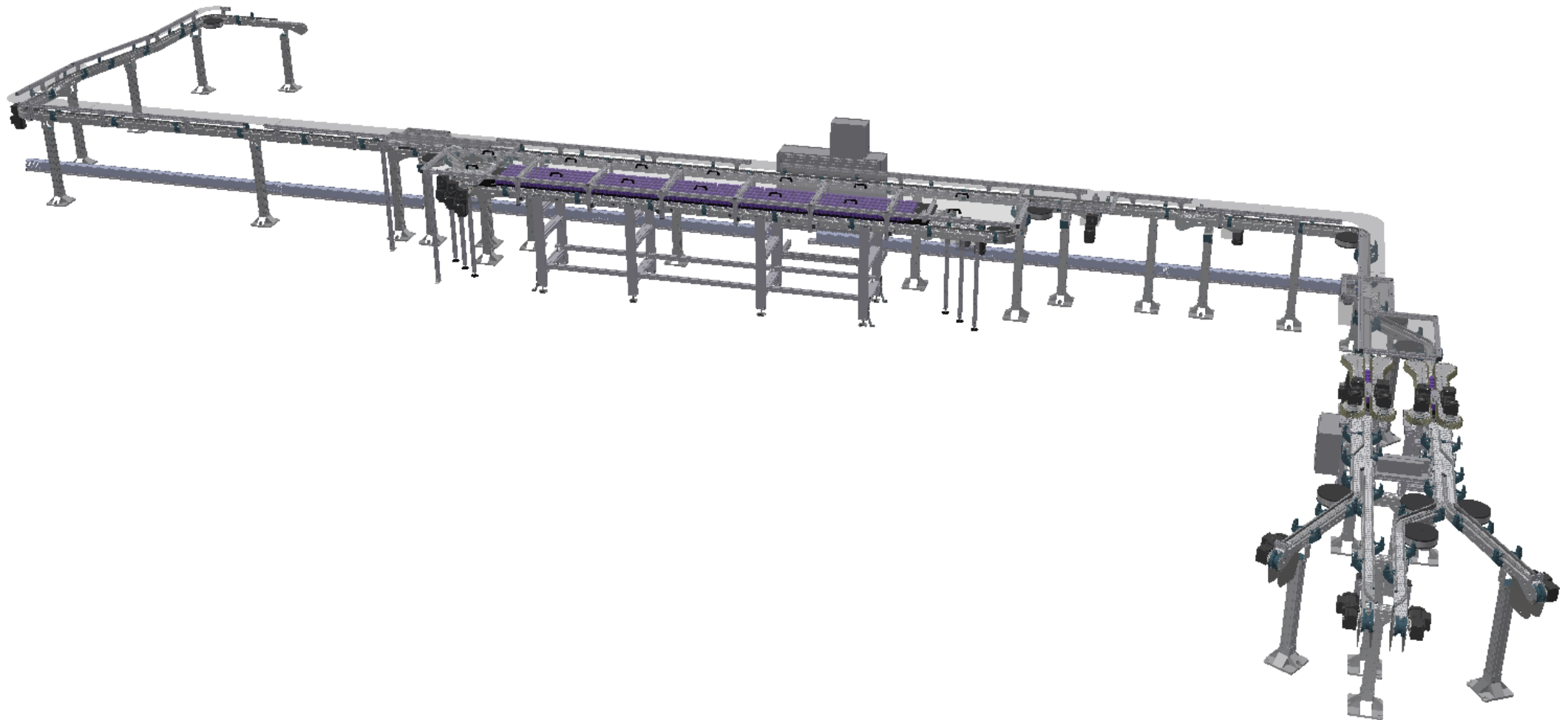
Fast

- Designed for high throughput applications
- Constant flow of product

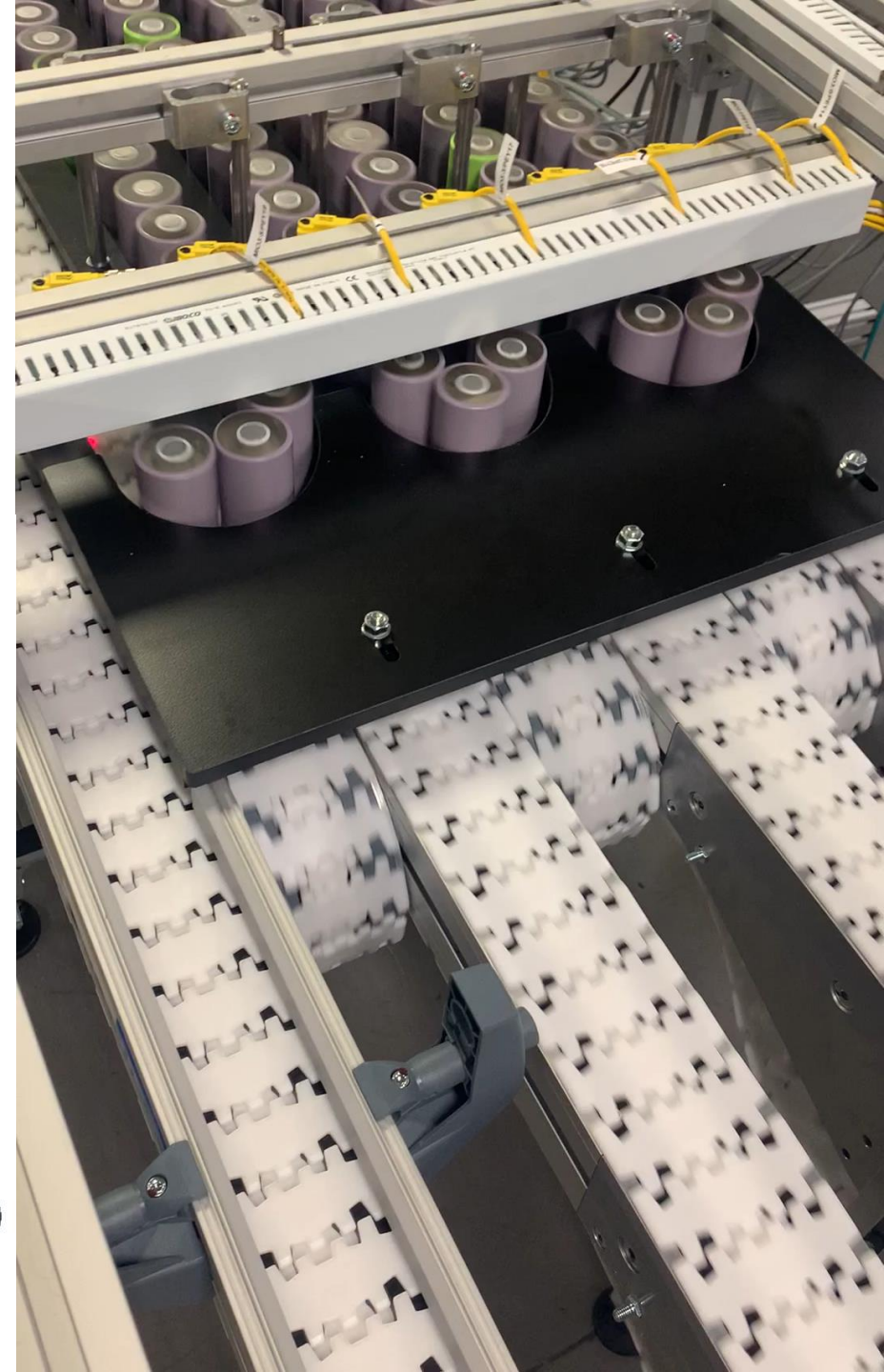
Flexible

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

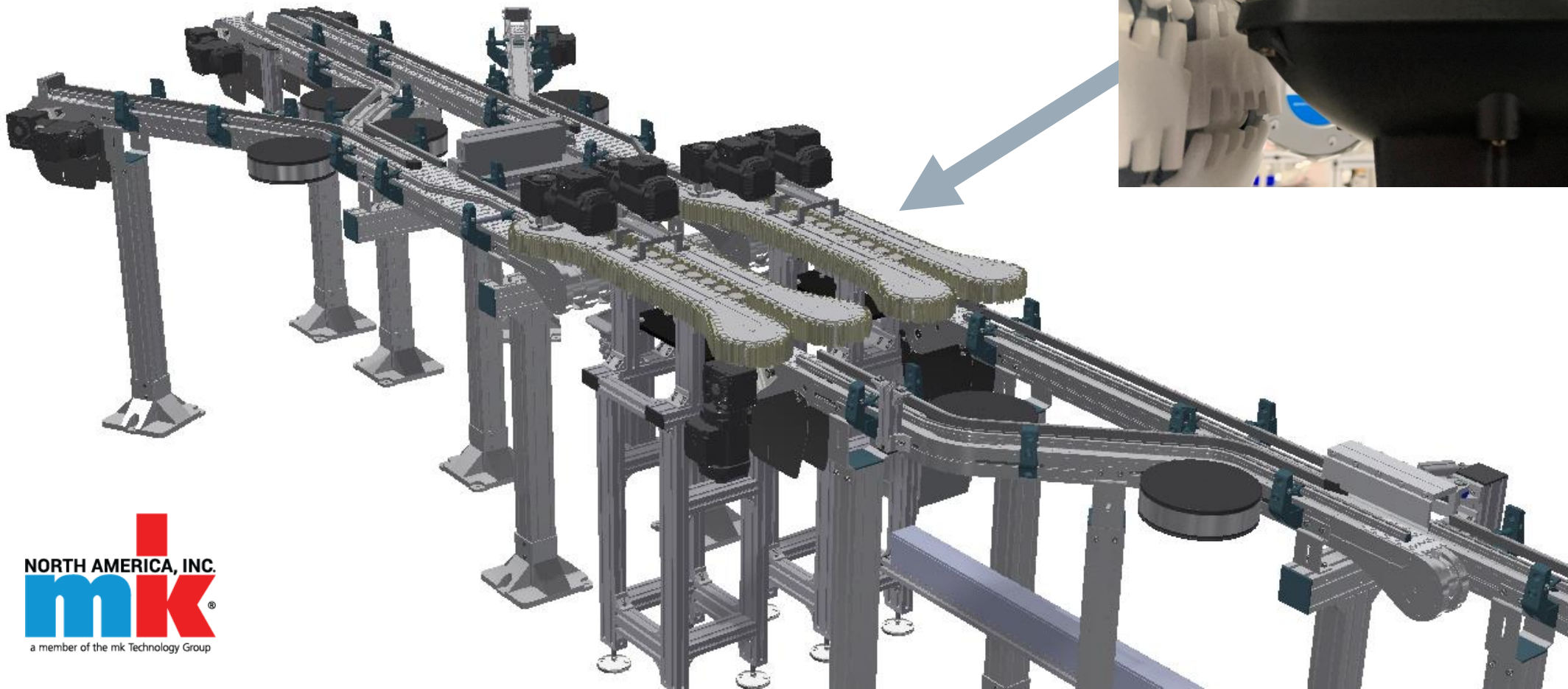
FLEXIBLE, COMPLEX LAYOUTS WITH
MULTIPLE PROCESSES



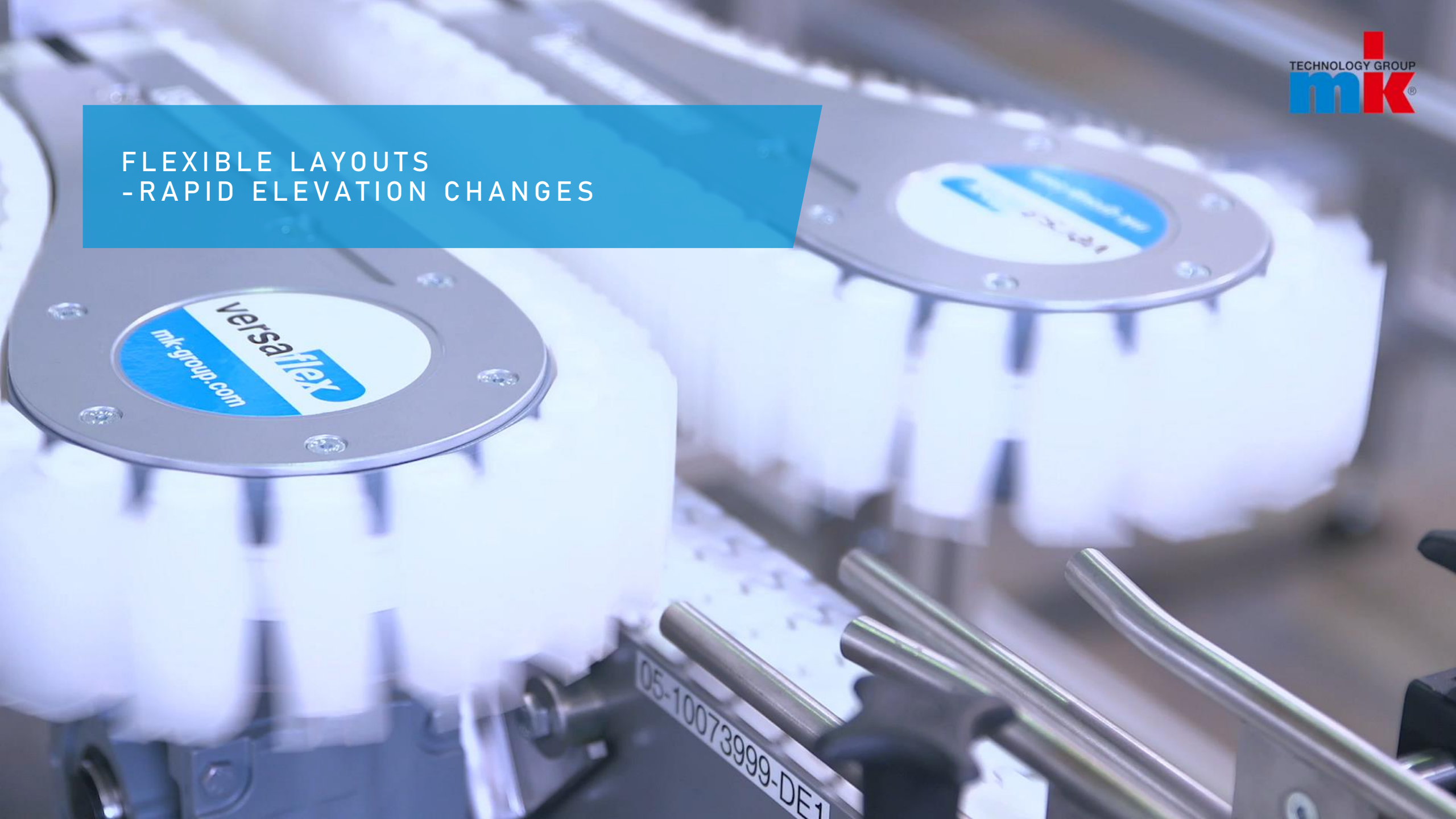
BI-FLOW TABLES FOR PART BUFFERING



ACTIVE & PASSIVE LANE DIVERSION
UNDERSIDE INSPECTION



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

A photograph of a complex industrial conveyor system. The system consists of multiple parallel tracks supported by a metal frame. The tracks are primarily silver, with prominent red sections. Various mechanical components, including rollers, guides, and actuators, are visible along the tracks. The background shows a factory floor with other equipment and a bright light source.

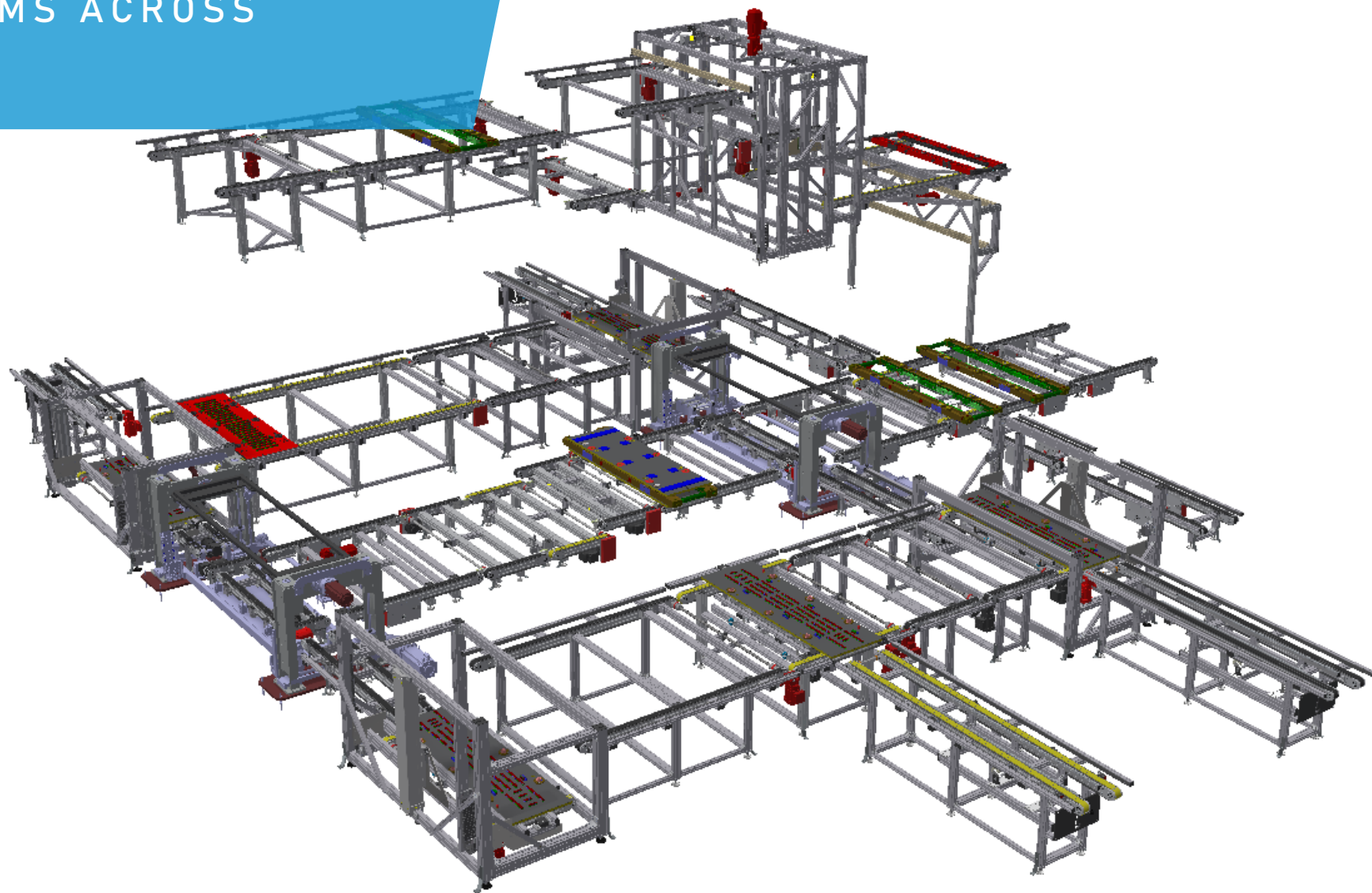
TRANSPORT OF IRREGULAR SHAPES & POOR ASPECT RATIOS

TRANSPORT OF IRREGULAR SHAPES & POOR ASPECT RATIOS

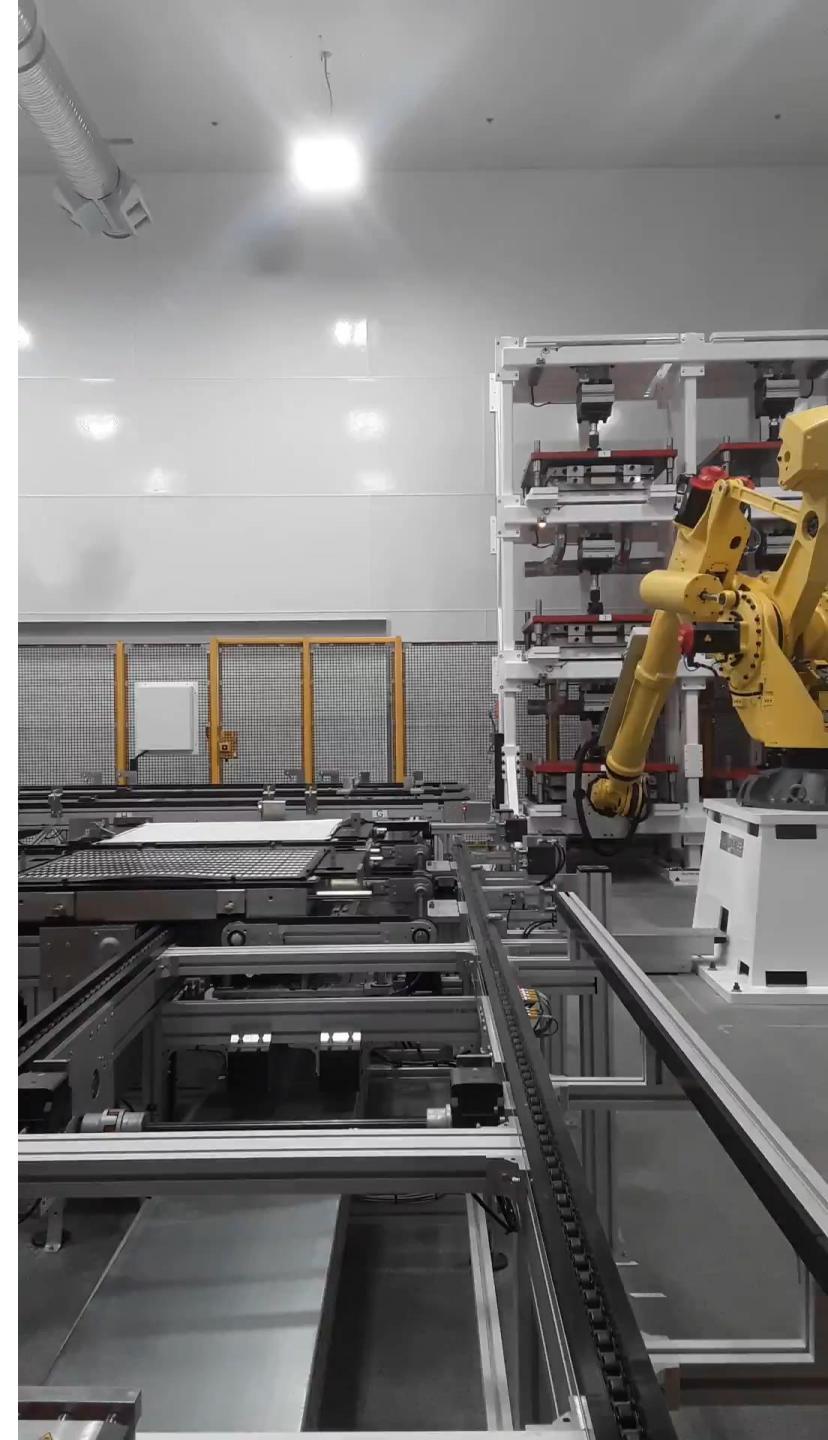
TRANSPORTING PRODUCT WITHOUT
TRADITIONAL BASE PALLET



MULTI-LEVEL SYSTEMS ACROSS MULTIPLE FLOORS



DESIGNED FOR AUTOMATION
-LOCATING FOR PRECISE OPERATIONS



BATTERY TESTING

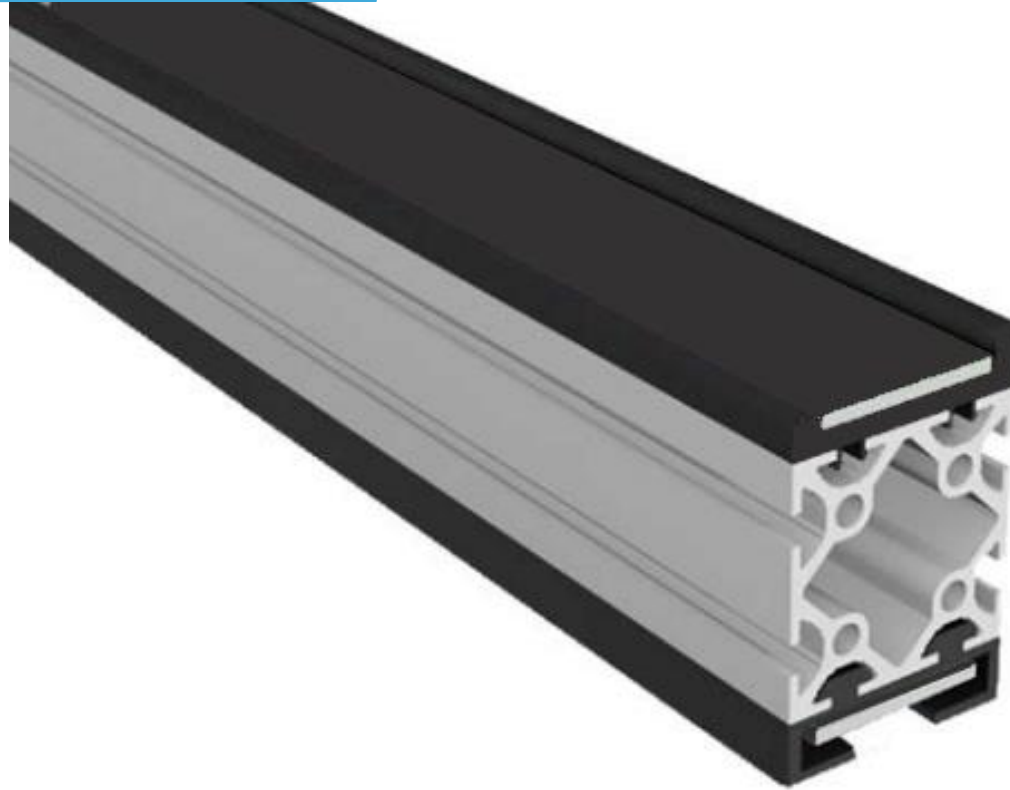
Safety

- 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

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



A large industrial machine, likely a conveyor or assembly line, is shown in a factory setting. The machine consists of several parallel tracks or modules supported by a metal frame. The tracks are made of polished metal and have various components like rollers and guides. The machine is mounted on a concrete floor. In the background, there are other factory equipment, workbenches, and a person partially visible on the left. A blue semi-transparent banner is overlaid on the top left of the image, containing white text. The machine has the number '4187' written on its side in black marker.

NON-ACCUMULATING ZONES FOR
ZERO CONTACT BETWEEN MODULES

A large industrial testing machine in a factory. The machine has a long, flat, ribbed metal surface. In the background, there is a red frame structure with yellow cables. A person's legs are visible on the left. A yellow warning sign says "CAUTION KEEP HANDS CLEAR".

DESIGNED FOR INTEGRATION WITH
TESTING EQUIPMENT

better products. better solutions.

SUPPORT

Application and engineering support

2D/3D concept and approval drawings

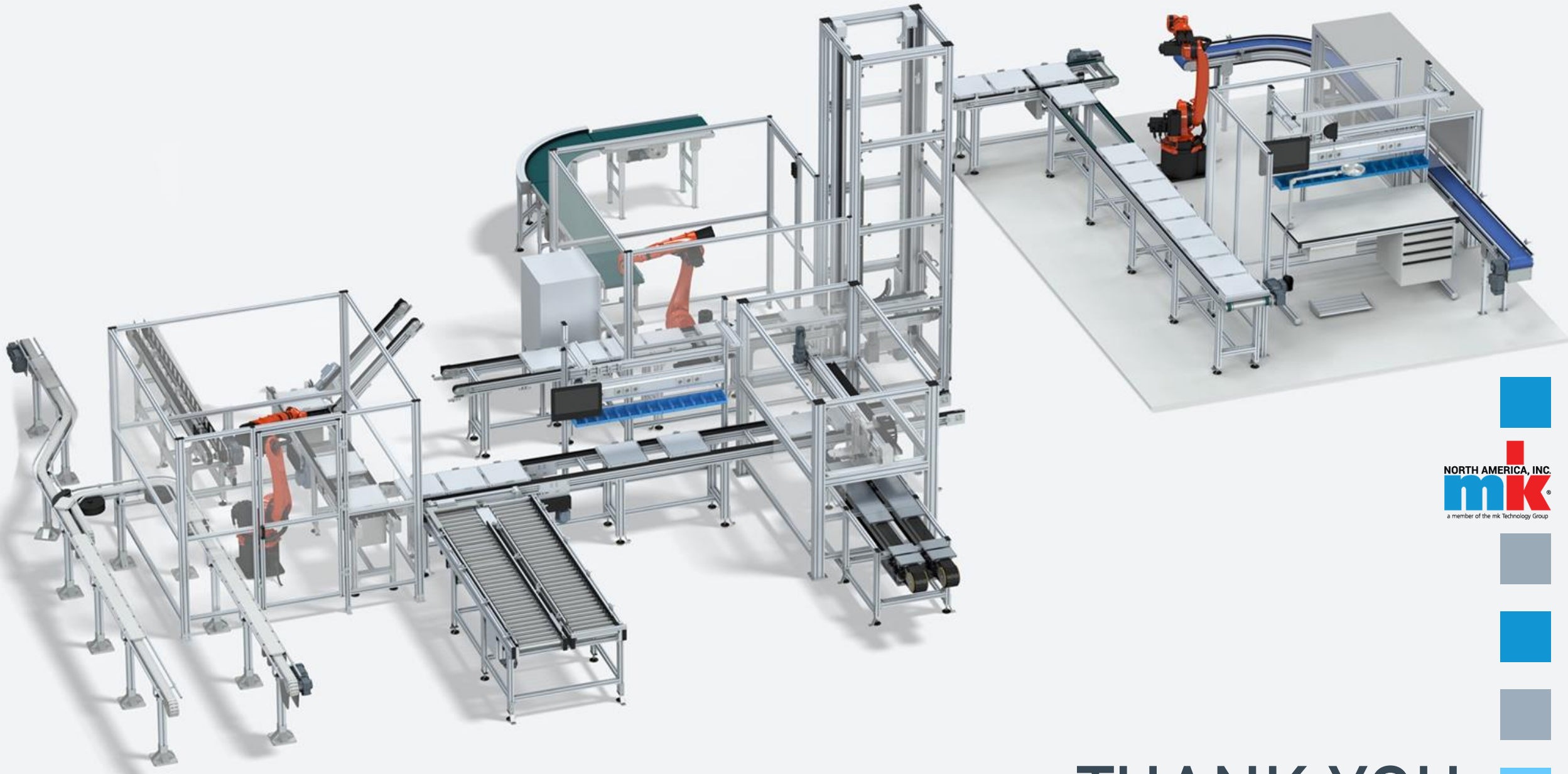
Maintenance & spare part documentation

Standard and custom solutions

Multi-step quality assurance

Trusted national integration partners

Made in the U.S.A.



THANK YOU

