

# BERKEN SOLUTIONS



A Partner for Innovative Conveyor Solutions

109 East Highland Drive  
Oconto Falls, WI 54154  
[www.BerkenSolutions.com](http://www.BerkenSolutions.com)

# BERKEN SOLUTIONS

## **WE ARE A CONVEYOR MANUFACTURER**

At Berken Solutions, we specialize in delivering high-quality conveyor solutions tailored for integrators and original equipment manufacturers (OEMs). Our advanced MDR conveyors are seamlessly integrated into your projects, and our commitment to customization encompasses length, width, and paint color, allowing us to meet your specific requirements.

## **WE AID IN THE DESIGN OF YOUR CONVEYOR SYSTEMS**

Our team of experienced professionals is dedicated to assisting you in designing your conveyor systems. We possess the knowledge and expertise necessary to create customized solutions that fulfill your unique needs.

## **WE PROMOTE OPEN-SOURCE SOFTWARE**

As a vendor-agnostic company, we advocate for the use of open-source software for conveyor controls, ensuring flexibility and compatibility across all your operations.

## **WE SPECIALIZE IN CUSTOMER SERVICE**

Customer service is at the forefront of our mission. Your satisfaction is our highest priority, which is why we provide comprehensive after-project service and support to ensure your conveyor systems continually perform at their best.

**Your success is our success.**

# CAPABILITY STATEMENT



BERKEN SOLUTIONS

Berken Solutions stands out for its innovation, expertly focusing on Light Goods and Pallet Handling conveyor systems, along with fabrication services. Our esteemed reputation is built on a strong dedication to outstanding service, thoughtfully designed to meet the unique needs of our valued clients. While we may be a small business, our leadership team brings over a century of deep expertise in material handling, ensuring that every project with Berken Solutions leads to remarkable success.

## Company Data

**POC:**

Seth Wilson  
swilson@berkensolutions.com  
(920) 559-2185

**Address:**

109 East Highland Drive  
Oconto Falls, WI 54154

**Website:**

www.berkensolutions.com

**SAM UEI:**

P2HUV97Z52E1

**CAGE CODE:**

0Q1H7

**NAICS CODES:**

333922 - Conveyor and Conveying Equip. Manuf.  
332313 - Plate Work Manufacturing  
332322 - Sheet Metal Work Manufacturing

**Tax ID Number:**

82-3326927

**Certifications:**

SBA Certified Small Business

We Accept Credit Cards

## Past Performance

- Snap-On
- Staples
- Walmart
- Siemens
- Kingsford
- Kohler
- Wilson Sporting Goods
- Tredit Tire & Wheel
- LIDS
- CNH Industrial
- Tootsie Roll
- Steris

## Core Competencies

- Conveyor Solutions
  - System Design Engineering
  - Manufacturing
  - Controls
  - Installation
- Manufacturing Services
  - Metal Fabrication
  - Laser Cutting and Brake Press
  - Structural Steel Cutting, Bending, and Drilling
  - MIG and TIG Welding of Ferrous Metals
  - Powder and Wet Coat painting

## Differentiators

- Turn-Key Project Integration
- Contract Manufacturing and Assembly
- Customer-Centric Approach
- Extensive Supplier Network
- Vendor-Agnostic Solutions
- Certified Welding Services
- Exceptional Customer Service

## Industries Served

- Warehouse
- Distribution
- Manufacturing
- Progressive Assembly Line
- Packaged Paper
- Postal
- Tire Handling
- Baggage Handling

# FABRICATION CAPABILITIES



BERKEN SOLUTIONS

Berken Solutions stands out as a leader in innovative solutions, specializing in Motorized Drive Roller conveyor systems and custom fabrication services. Our esteemed reputation is built upon delivering exceptional services tailored to the unique needs of our clients. With a leadership team boasting over a century of experience in the realm of material handling and fabrication.

## Trumpf 5030 5K Fiber Laser

- 5' x 10' Bed
- Lift Master Auto Loading
- Mild Steel up to 1" thickness
- Stainless Steel up to 3/4" thickness
- Aluminum up to 3/4" thickness

## Accurpress 725016 Press Brake

- 16' Bed
- 250 Ton
- Thicknesses up to 5/8"

## 2 – HydMech M-16A Horiz. Bandsaw

- 90° Straight Cut Capacity of 16"H x 25"W
- 45° Straight Cut Capacity of 15"H x 16"W
- Miters from 90° to 30°
- Up to 8,000lb workload Capacity

## Welding

- MIG Welding - Carbon Steel
- TIG Welding - Stainless, Aluminum, Carbon Steel

## And More....

- Engineering - Mechanical/Electrical/Controls
- Assembly - Mechanical/Electrical
- Q A and R & D Departments
- Drilling
- Tapping
- Wet Coat Paint

## Peddinghaus Avenger Drill Line

- Handle lengths up to 40' long
- Beams and Profiles up to 40" tall
- Hole Dia. range of 1/4" to 1-9/16"
- Max depth hole of 10"
- 200-400 holes per hour

## Accurpress 7608 Press Brake

- 8' Bed
- 60 Ton
- Thicknesses up to 1/4"

## Other Machines

- Hydraulic Plate Roller, up to 3/16" x 4' wide
- hydraulic Rotary Draw Bender, up to 2" Dia.
- Shear
- Mill
- Lathe

## Contact:

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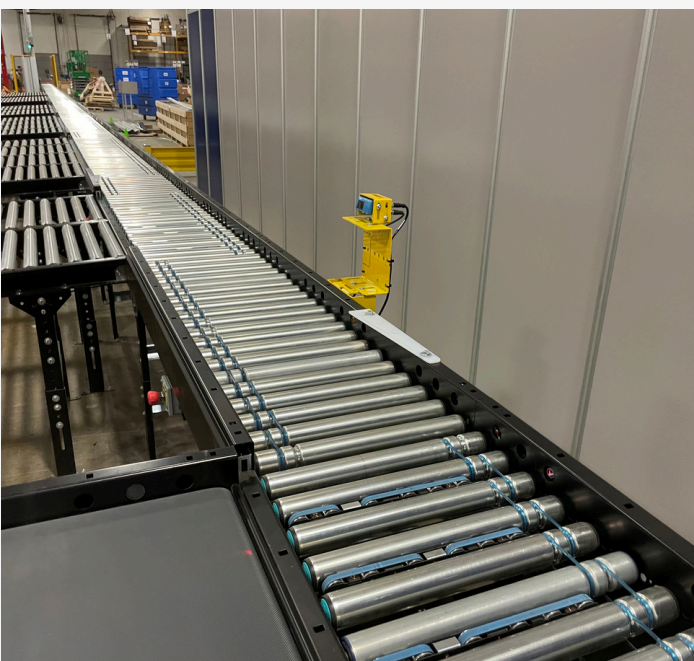
SBA Certified Small Business

We Accept Credit Cards

# 24V DC STRAIGHT INTERMEDIATE



The 24V DC Straight Intermediate conveyor is designed to transport a diverse range of products, including cartons and totes. Each zone operates independently, allowing for zero pressure accumulation. Roller options are available for both 2-inch and 3-inch centers. Each segment comes preassembled with motor-driven rollers (MDRs), belts, drive cards, photo eyes, and wire harnesses, facilitating swift and straightforward installation. Furthermore, the modular design enables easy expansion of the system to accommodate the evolving needs of the customer.



## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- Standard O Bands or upgrade to Poly V Bands for heavy duty applications
- 12" to 120" zone lengths available
- Choose your side frame color
- 65 lbs max load per carton
- Rates up to 45 CPM
- Optional brake to hold decline when power lost
- Optional anti roll back roller to hold incline when power lost
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V FULL WIDTH BELT INTERMEDIATE



The 24V DC Full Width Belt Intermediate conveyor is designed to transport a diverse range of products, including bags, cartons, totes, and odd shaped packages. Each belted zone has a V-Guide for tracking and take up brackets for belt tension. An optional T-Strip can be added in between belts to fill the gap. Each segment comes preassembled with motor-driven rollers (MDRs), belts, drive cards, photo eyes, and wire harnesses, facilitating swift and straightforward installation. Furthermore, the modular design enables easy expansion of the system to accommodate the evolving needs of the customer.

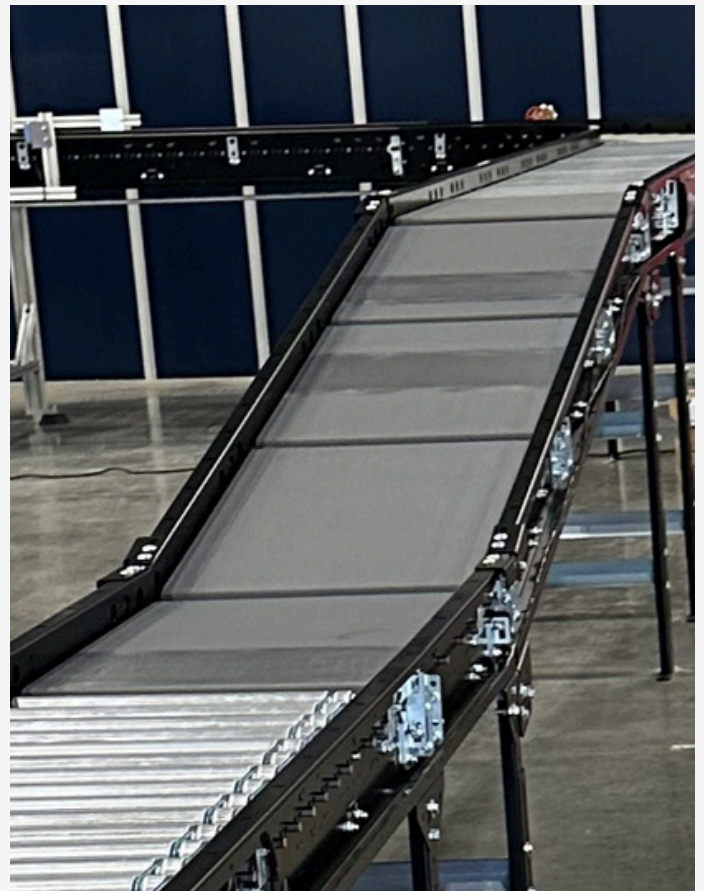
## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- 1 Ply black PVC belt with notched V-Guide for tracking
- 12" to 120" zone lengths available
- Choose your side frame color
- 65 lbs max load per carton
- Rates up to 45 CPM
- Optional brake to hold decline when power lost
- Optional anti roll back roller to hold incline when power lost
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V CURVE



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The 24V DC curve conveyor is designed to transport a diverse range of products, including cartons and totes. Each zone operates independently, allowing for zero pressure accumulation. Curve options include 30, 45, 60, and 90 degrees. Each segment comes preassembled with motor-driven rollers (MDRs) with conical sleeves, drive cards, photo eyes, and wire harnesses, facilitating swift and straightforward installation. Furthermore, the modular design enables easy expansion of the system to accommodate the evolving needs of the customer.



## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- Standard O Bands or upgrade to Poly V Bands for heavy duty applications
- 30, 45, 60, and 90 degree variations
- Rollers come standard with tapered sleeve
- 65 lbs max load per carton
- Rates up to 45 CPM
- Optional brake to hold decline when power lost
- Optional anti roll back roller to hold incline when power lost
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V ACCUMULATIONG SPIRAL



The 24V DC Accumulating Spiral is designed to convey product to a different elevation (incline or decline) in a small footprint. Every spiral starts with a center modular tower that is duplicated vertically as the tower grows. Support arms are used to mount the conveyor to the structure allowing for maximum clearance at floor level. The conveyor is shipped in 90 degree segments for easy transport to the installation area. Each segment comes preassembled with MDRs, drive cards, photo eyes, and wire harnesses. Furthermore, the modular design enables easy expansion of the spiral as your needs change.

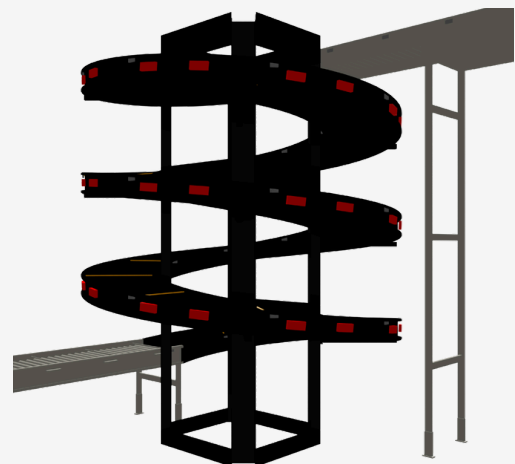
## SPECIFICATIONS

### Mechanical

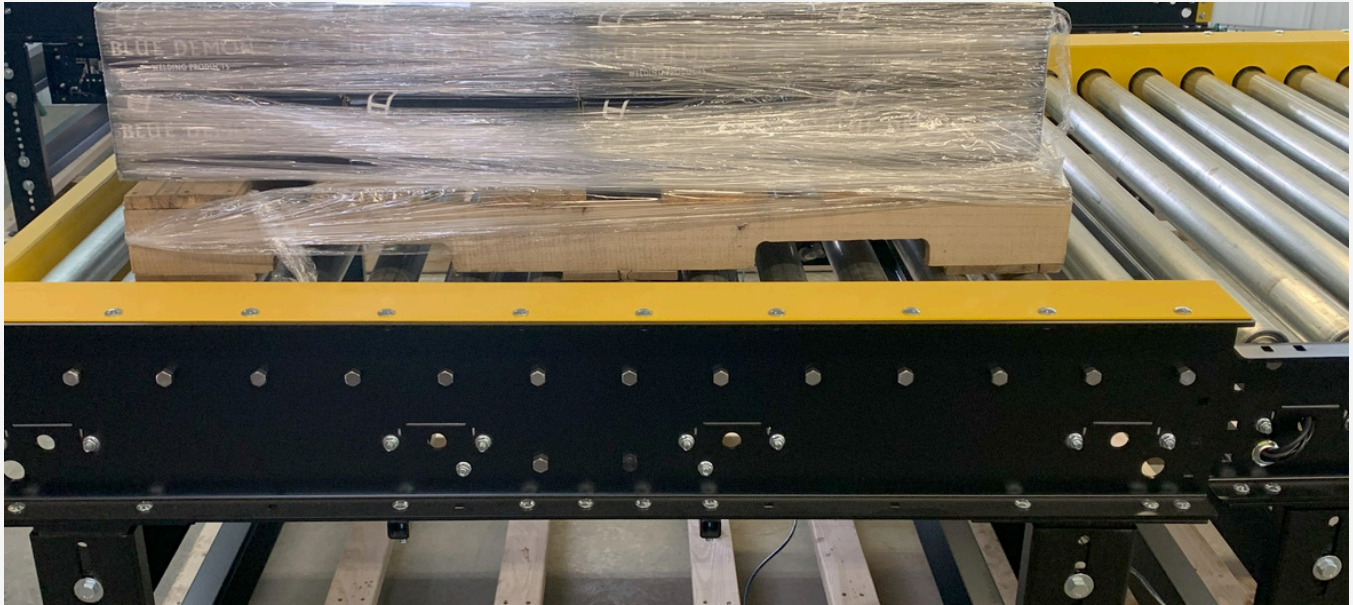
- 15" to 27" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- 3 ft. elevation change per revolution
- One or two zones per 90 degrees
- Rollers come standard with tapered sleeve
- 65 lbs max load per carton
- Rates up to 45 CPM
- Optional brake to hold decline when power lost
- Optional anti roll back roller to hold incline when power lost
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V Pallet Conveyor



## SPECIFICATIONS

### Mechanical

- Conveyor widths by design
- Rollers Set Low (RSL) design for built in 2" guard rail
- 4000 lbs max load per pallet
- Rates up to 90 feet per minute
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# NON-POWERED GRAVITY



A non-powered gravity roller conveyor is a simple yet effective material handling solution that relies on gravity and the physical force applied by operators to move items along a series of rollers. This type of conveyor does not require any external power source, making it an energy-efficient option for transporting goods. Commonly used in warehouses, shipping areas, and assembly lines, these conveyors are ideal for moving boxes, pallets, and other items with flat, rigid bottoms.



## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- 2" and 3" roller centers
- Rollers Set Low (RSL) design for built in 2" guard rail, Roller Set High (RSH) no guard rail
- 24" to 120" lengths available
- Choose your side frame color
- 65 lbs max load per carton
- All Conveyor and Accessories come standard with powder coat paint



# 24V Gate

## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- Standard O Bands or upgrade to Poly V Bands for heavy duty applications
- 48" and 60" lengths available
- Choose your side frame color
- 65 lbs max load per carton
- Rates up to 45 CPM
- Integrated proximity sensor to detect up/down position
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V DIVERT



The 24V DC divert conveyor is designed to transport a diverse range of products, including cartons and totes. The divert is a sophisticated automation component designed for material handling systems. It functions as a diverting mechanism that efficiently directs products or packages to different paths on a conveyor system. Divert options include 30 degree spur. Each segment comes preassembled with motor-driven rollers (MDRs), Multi-Angle Ball Sorter(MABS), drive cards, photo eyes, and wire harnesses, facilitating swift and straightforward installation. Furthermore, the modular design enables easy expansion of the system to accommodate the evolving needs of the customer.



## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- Standard O Bands
- 30 degree divert to left or right
- Rollers come standard with tapered sleeve
- 65 lbs max load per carton
- Rates up to 30 CPM
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness



# 24V MERGE



The 24V DC merge conveyor is designed to transport a diverse range of products, including cartons and totes. Just like the divert, the merge is a sophisticated automation component designed for material handling systems. It functions as a merging mechanism that efficiently accepts products or packages from different paths on a conveyor system. Merge options include 30 degree spur. Each segment comes preassembled with motor-driven rollers (MDRs), drive cards, photo eyes, and wire harnesses, facilitating swift and straightforward installation. Furthermore, the modular design enables easy expansion of the system to accommodate the evolving needs of the customer.



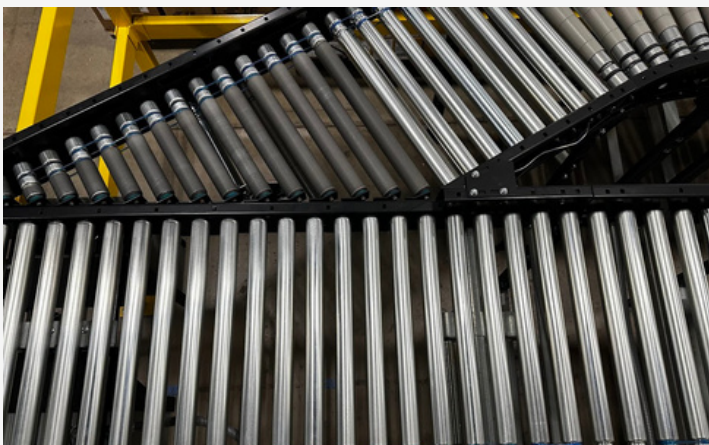
## SPECIFICATIONS

### Mechanical

- 15" to 36" conveyor widths
- Rollers Set Low (RSL) design for built in 2" guard rail
- Standard O Bands
- 30 degree merge from left or right
- 65 lbs max load per carton
- Rates up to 30 CPM
- All Conveyor and Accessories come standard with powder coat paint

### Electrical

- All 24V DC components
- Choose your preferred motor and drive card
- Choose your preferred I/O network (Ethernet IP, EtherCAT, Profinet, AS-Interface, Field Wired)
- Built in wire harness

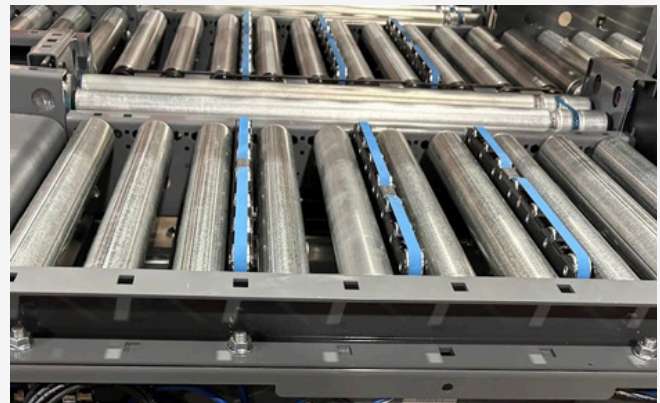


# 24V Transfers

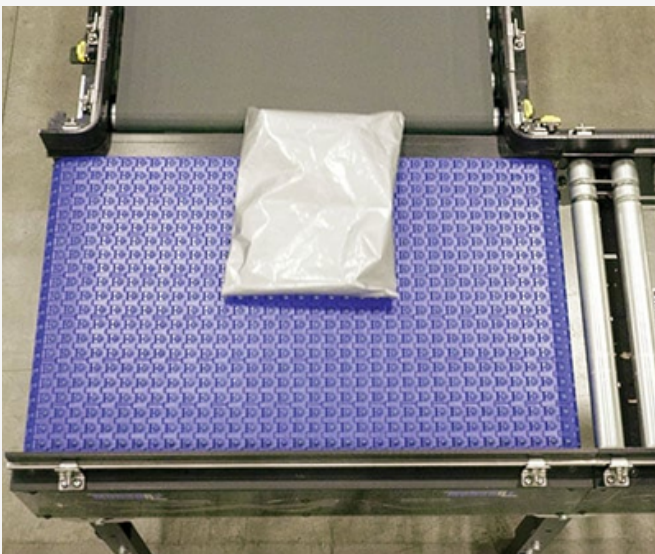


The Itoh Denki Flat Right Angle Transfer (FRAT) NX-75 is a specialized conveyor system designed for efficient product transfer at right angles, optimizing space in various industrial settings. With its compact design, the FRAT NX-75 facilitates seamless movement of products between different conveyor lines while maintaining a smooth workflow. The system is equipped with advanced drive technology and sensors for precise control, ensuring reliable performance in high-speed environments.

The PulseRoller Pulse Diverter Unit (PDU-90) is a right angle transfer that fits into standard roller conveyors without modifications. It operates by diverting materials from a main conveyor line to multiple output paths, enhancing workflow and optimizing space utilization. The PDU-90 utilizes all electric 24V/48V components and eliminates the need for any costly pneumatic actuators, making it a cost-effective solution for material diversion.



The Modsort Divert system is a highly advanced sorting solution designed for efficient material handling in various industrial applications. This modular sorting system offers exceptional flexibility and scalability, allowing users to customize configurations to meet specific operational requirements. Equipped with state-of-the-art sensors and control technologies, Modsort can accurately identify, sort, and route products based on size, shape, and weight.

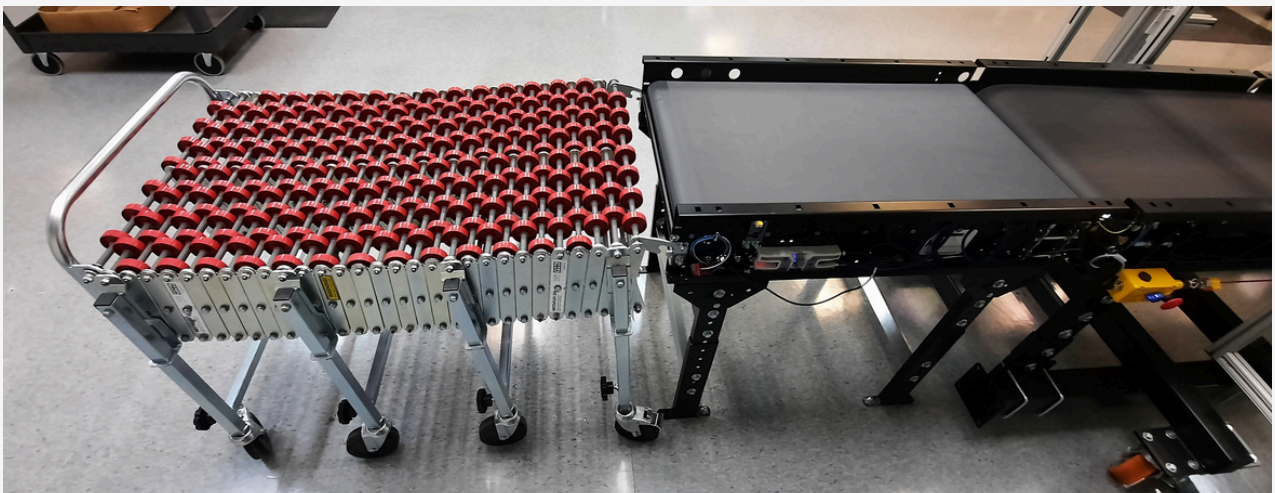
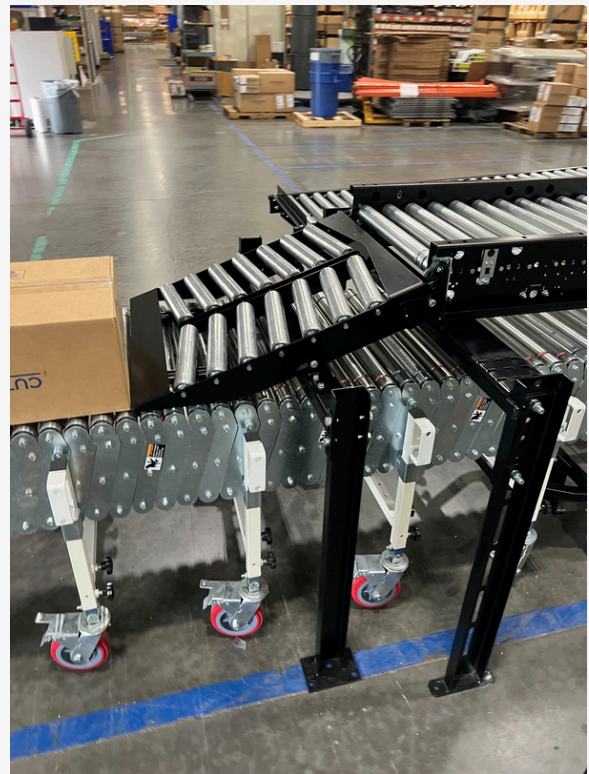


Berken Solutions also provides custom transfer systems, designed and manufactured in our facility to address unique applications, ensuring optimal solutions for our clients.

# Extendable Conveyor



A 24V extendable conveyor is a versatile material handling solution designed to facilitate efficient loading and unloading processes in various industrial settings. Available in 24" and 30" wide, with the ability to be accumulating, its extendable feature allows the conveyor to be adjusted in length, providing flexibility to accommodate different loading dock sizes and truck lengths. This adaptability enhances operational efficiency by reducing the need for manual handling and minimizing the physical strain on workers.



# Supports

Conveyor supports are structural elements designed to provide stability and support to conveyor systems. They ensure that the conveyor operates smoothly and efficiently by. To accommodate different operational needs, conveyor supports can be adjustable and sized specifically for the conveyor system. This versatility allows for easy customization, ensuring that the supports can be tailored to fit various conveyor configurations and heights.

Conveyor supports are available in standard duty and heavy-duty options. Standard-duty supports are ideal for lighter loads and general applications, while heavy-duty supports are designed for more demanding environments, capable of handling heavier materials with increased stability and durability. Additionally, they can be color-matched to the conveyor system.

With Berken Solutions in house fabrication capabilities, any support can be manufactured to ensure smooth operation.



Adjustable Support



Bridge Support



Low Profile Support



Trapeze Support



Multi-Tier Support

# BERKEN SOLUTIONS

MDR drive cards are components that control motor-driven roller systems in industrial automation, managing functions like starting, stopping, and speed regulation. With programmable logic and safety features, they ensure reliable operation and enhance efficiency in applications like conveyor systems. Below are some of the common cards used at Berken Solutions. We strive to select the best card for your application.



The Itoh Denki HB510 is a versatile brushless motor control card designed for seamless integration and efficient operation in conveyor systems. Paired with the IB-E03 drive card, it offers precise control and enhanced performance, making it ideal for optimizing automated material handling solutions.



The Conveylinx AI2 and ERSC pulse roller drive cards are advanced control solutions designed for optimizing conveyor systems, offering precise motion control and integration capabilities. They enhance efficiency and flexibility in automated material handling applications by providing intelligent and seamless communication between conveyor components.



The Interroll MultiControl drive card is an innovative solution for efficient conveyor system management, offering seamless integration and control of up to four conveyor zones. It enhances automation and logistics by providing reliable and precise control for material handling applications.

# 24V Motor Driven Roller (MDR)



Unlike traditional conveyor systems that rely on centralized motors and belts, motor driven rollers (MDRs) incorporate individual motors within each roller, enabling precise control and reduced energy consumption. This design allows for smoother, quieter operations and the capability to easily adapt to varying loads and speeds, making MDRs highly versatile for a range of applications from warehousing to manufacturing. Berken Solutions specializes in optimizing the integration of motor driven rollers by utilizing their extensive industry knowledge and expertise. They assess factors like load requirements, environmental conditions, and operational efficiency needs to provide tailored recommendations that boost productivity and reduce downtime.

The Itoh Denki PM486FE motor-driven roller is used in light duty applications, it is equipped with a brushless DC motor, providing precise control and reliability for automated conveyor systems.



The Itoh Denki PM635KT is suitable for a wide range of industrial applications, including more heavy-duty uses, with easy integration and precise control.

# BERKEN SOLUTIONS



A Master Control Panel (MCP) is a centralized system that oversees and manages the operation of conveyor systems in various industrial settings. It acts as the brain of the conveyor system, integrating and coordinating different components such as motors, sensors, and actuators to ensure seamless and efficient material handling. The MCP allows operators to monitor and control conveyor functions, such as speed, direction, and load, through a user-friendly interface. It often includes programmable logic controllers (PLCs) and human-machine interfaces (HMIs) for real-time data analysis and decision-making. This centralized control improves operational efficiency, reduces downtime, and enhances safety by providing diagnostic and troubleshooting capabilities, making it an essential component in modern conveyor operations.

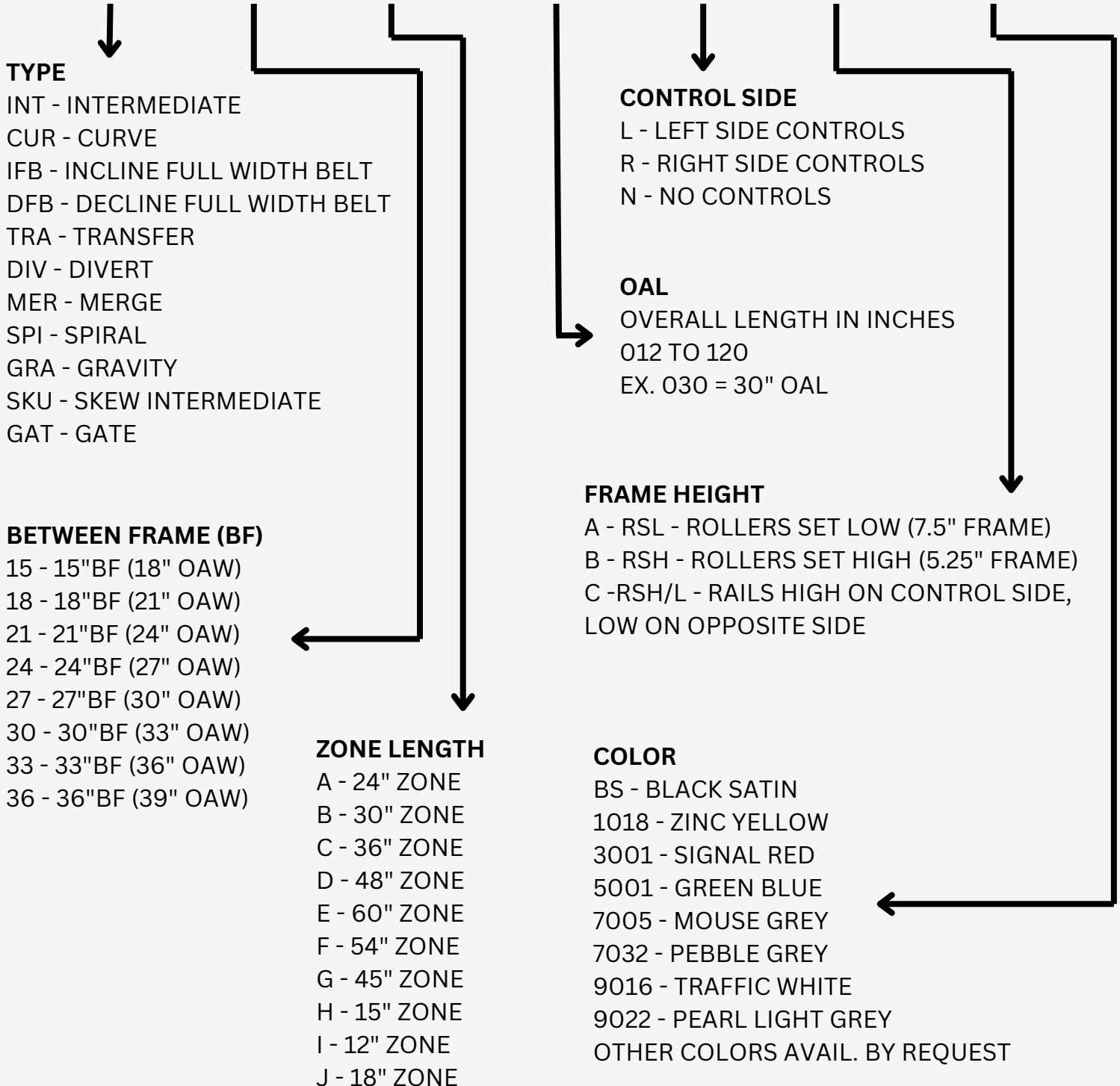
A Remote Power Supply Enclosure (RPSE) is a protective housing designed to securely contain electrical components that supply power to conveyor systems. These enclosures are typically constructed from durable materials. They ensure that the power supply, including transformers, circuit breakers, and wiring, is shielded from dust and other environmental factors that could cause damage or disruptions. By situating the power supply remotely, these enclosures help in maintaining streamlined conveyor operations, minimizing downtime, and enhancing safety by reducing the exposure of personnel to electrical hazards.



# CONVEYOR TAG DESCRIPTION



TYPE	BF	ZONE LENGTH	OAL LENGTH	CONTROL SIDE	FRAME	RAIL COLOR
XXX	XX	X	XXX	X	X	XXXX



# BERKEN SOLUTIONS

Proudly works with the following vendors:



And Many More.....