Automation & Modular Components, Inc. is an Innovative Manufacturer of Industrial Automation Solutions, driven by a commitment to Faith, Integrity, and Customer Focused Value.
Automation & Modular Components (AMC) has been manufacturing reliable, low-maintenance conveyor systems for over 30 years. Our dependable systems have helped companies in over 25 industries across six continents produce goods faster, with more consistency, and is why we maintain such a strong reputation for quality, service, and customer satisfaction. We are so confident in our products that we continue to offer a 3-year warranty.

AMC offers an experienced engineering support and manufacturing staff that, with our modular aluminum extrusion platforms, are capable of providing solutions to any application including integration with existing equipment.

A Complete Line of Standard Conveyor Systems

AMC provides a complete range of modular conveyor systems manufactured from aluminum extrusions. These robust, non-synchronous and synchronous conveyor systems are designed to reliably handle a variety of manufacturing environments. They operate in a manner bringing an ROI second to none in this industry. All AMC conveyors are designed and built to have the flexibility, ease of maintenance, durability, and strength that modern manufacturers demand.

Take Advantage of AMC’s Leadership

As a proven innovator and leader of the most reliable conveyors in our industry, AMC offers the following benefits:

- First in industry to offer 3 year warranty
- Delivery as promised
- Service & Training
- Innovative custom engineering and modification
- Extensive track record of industry leadership
- Conveyor Setup
- Start-up assistance on your floor
- System installation & training
- Controls Hardware & Software Integration
Conveyors for Manual or Automated Processes

Depending upon your specific material handling and automation needs, an AMC conveyor can be easily integrated into your process whether it utilizes manual workstations, automated workstations, or a combination of both.

Transport Media

A broad variety of transport media are available:
- Accumulation Roller
- Double Plus Accumulation
- Dual Belt
- Flat Top Belt
- Matt Top
- Modular Roller
- Multi-Flex
- Side Flexing Flat Top
- Slat

Typical System

The current AMC conveyor designs utilize the latest in available components to provide the least amount of maintenance. AMC’s comprehensive range of conveyor systems and components meet virtually every need.

Workpiece Pallet Flow

With AMC’s many chain and belt style components, AMC can accommodate any configuration required.

Typical Applications

A broad variety of industries use AMC’s conveyor products to improve their productivity:
- Alternative Energy
- Appliance
- Assembly & Material Handling
- Automotive
- Container Handling
- Electronics
- Food
- Glass
- Machining
- Medical
- Metalworking
- Munitions
- Packaging
- Parts Processing
- Pharmaceutical
# Conveyor Application Guide

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AMC's Modu-Con 2 conveyor system is a modular conveyor system typically used for the assembly, test, or material handling of discreet products. It comes in several standard sizes featuring pallets from 8” up to 36” and can handle up to 3000 Lbs per drive. It is commonly used for smaller parts such as automotive components, medical devices, consumer products, and other small part sub-assemblies.

The Modu-Con 2 system is a cost effective twin strand conveyor. It is available in belt, side flexing chain, and in-line roller chain versions. The in-line roller chain is available with chain clips that additionally protect the chain from debris and small parts that would otherwise damage the rollers. Depending on the configuration, it is also static dissipative to protect sensitive electronic components as they travel down the line.

Features And Benefits
- Up to 3000Lb (1360Kg) Max Load Per Drive
- Modular and Cost Effective
- Speeds up to 66 FPM
- Belt, Side Flexing Chain and Roller Chain Available
- Rollers Available in Plastic or Steel
- Up to 50Ft (15M) Lengths Per Drive
- Pre-Engineered Components: Pallets, Stops, Pallet Locate Devices, Force Absorption Lifts, Elevators, Transfers and Rotates are Available
The Modu-Con 3 conveyor system has the same features as Modu-Con 2 but was developed for heavier applications. With standard pallet sizes up to 48” wide, the Modu-Con 3 is the ideal transport for applications in the 100 to 800 Lb range (actual loads determine by load per roller calculation). This system is good for moving parts such as small engines, transmissions, powertrain components, appliances, and HVAC units. Common applications include assembly, test, and transportation between machining cells.

Modu-Con 3/R is a straight running, #60, steel roller chain conveyor and is meant for pallet accumulation applications. It is available in steel and plastic rollers.

Modu-Con 3/C has a side-flexing chain which allows for layouts utilizing radius corners. The snap on plastic caps are available in standard and ESD.

Features And Benefits
- Available E.S.D.
- Up to 6500Lb (2954Kg) Max Load Per Drive
- Chain Clips Available
- Speeds up to 66 FPM
- 50Ft (15M) Lengths Per Drive
- Pre-Engineered Lift and Locates, Lift and Backups, Cushioned Stops, Elevators, Corner Transfers and Rotates Available
Modu-Con 5 is an in-line, over/under, trapped pallet conveyor system designed with the automotive, appliance, and solar industries in mind. Modu-Con 5 can be arranged as either a non-synchronous or synchronous system. It has been used to carry axles, steering racks, crank and cam shafts, solar panels, and suspension components. It is resistant to metal chips, oils, and cutting fluid and therefore can be used in machining environments. Dependent on your load requirements, two chain sizes are available and each conveyor is sized according to your specifications.

Modu-Con 5 features a captive pallet design which automatically returns the pallets underneath to the beginning of the conveyor and eliminates the need for elevators and additional drives. The Modu-Con 5 offers a standard design platform that is customized to meet your needs.

Features And Benefits
- Up to 3000Lb (1360Kg) Max Load Per Drive
- Captive Pallet Design
- Speeds up to 30 FPM
- Two Chain Styles Available
- Synchronous or Non-Synchronous
- 100Ft (30M) Lengths Per Drive
- Lift and Locates Available
AMC’s Modu-Con 6 conveyor is a twin strand conveyor featuring “Double Plus Chain.” The pallet travels 2.5 times the conveyors chain speed allowing for exceptionally fast pallet transfer times. It is typically used for palletized assembly in a wide variety of industries including appliance, automotive, and electronics. A Clean Room version features nickel plated chain, stainless steel fasteners, and components which allow it to be used in applications such as a Lithium Ion battery assembly.

Common pallet sizes range from 16” up to 48” wide and custom sizes are available. Anti-Static Options are available.

The Modu-Con 6 series is AMC’s fastest conveyor line. It can operate at speeds up to 200FPM, making it ideal for short cycle time build lines. Move your parts faster with pallet to pallet index times as low as 2 seconds.

Features And Benefits
- 3080Lb (1400Kg) Max Load Per Drive
- Speeds up to 200 FPM
- Synchronous or Non-Synchronous
- 50Ft (15M) Lengths Per Drive
- Lift and Locates, Rotates, Transfers Available
The Modu-Flex 83 series is a modular single lane conveyor with an 83mm wide side-flexing chain. Its flexibility and speed are well suited for many applications, but it has proven very effective as a palletized system for the machine to machine production environment. It can also be used as a dynamic storage buffer accumulating small parts between machine processes. MF83 is a flexible product well suited for palletized applications or for running parts directly on the chain. MF83 has been widely used in the medical, automotive, packaged foods, and pharmaceutical industries.

The MF83 conveyor system features a 175mm corner radius for making tight turns, allowing you to save space in your design. It also allows for inclines up to 3° with our standard chain, and greater inclines can be achieved with grip top or cleated chain.

As a pallet system we offer both pallet and puck version carriers. Standard pallet sizes start at 150mm and standard puck solutions at 200mm. AMC is adept at customizing the carriers to fit your application. We offer standard, pre-engineered components for stops and pallet locate units. The puck style version offers tunnel lifts which allow for common stations to be arranged in series rather than in parallel.

**Features and Benefits**
- 250Lb (113Kg) Max Load Per Drive
- Vertical Bends up to 90°
- Speeds up to 100 FPM
- 35Ft (10M) Lengths Per Drive
- Lifts & Locates, Transfers, Diverters, Merges, and Tunnel Stations
AMC’s Modu-Matt conveyor can be used for a wide variety of applications including electronics, automotive, consumer goods, bottling, packaging and more. Every Modu-Matt conveyor is custom tailored to your needs. We have built them as small as 4” wide and as large as 8’ wide. They have moved a wide array of products from gears and bearings to solar cells and fire extinguishers. Use it for the accumulation of small parts, or the transportation of very large parts. We can tailor it to your exact needs.

Chains are available with threaded inserts that allow for direct mount tooling.

The Modu-Matt conveyor system is a standard framework designed to accept many different chains from many different manufacturers. This is our most versatile conveyor available.

Features And Benefits

- 485Lb (220Kg) Max Load Per Drive
- Standard Inclines up to 5°
- Speeds up to 23 FPM
- Accepts a Wide Variety of Plastic and Steel Chains
- 50Ft (15M) Lengths Per Drive
MRC features our unique cornering method that does not require Lift and Transfers, Corner Rotates, or Diverting Arms. This unique cornering method significantly reduces your controls integration costs. The MRC Conveyor System is a Modular Roller Conveyor meant for transporting larger objects, usually weighing 50Lbs or more, making it ideal for the automotive and appliance industries. It has been used to transport Transmission Cases, Axle Assemblies, Seats, Small Engines and similarly large parts. It comes in standard widths of 300mm, 400mm and 500mm and custom sizes are available.

Common applications include machining cells, assembly, inspection, and testing and manufacturing.

MRC is well suited for assembly. The MRC Conveyor System uses rollers instead of a chain which allows debris to fall harmlessly between the rollers instead of getting stuck or damaging the chain. This makes it ideal for harsh environments where screws, clips, and other small fasteners might otherwise harm a chain conveyor.

MRC is also capable of running in reverse allowing you to transfer in and out of a workstation or across multiple conveyors.

Features And Benefits
- 2645Lb (1200Kg) Max Load Per Drive
- 3 Widths Available: 300/400/500mm
- Capable of Operating in Reverse
- Speeds up to 65 FPM
- Clutched Rollers with Adjustable Friction Levels
- Up to 30Ft (9M) Lengths Per Drive
- Pre-Engineered Components: Pallets, Cushioned Pallet Stops, Pallet Locate Devices, Elevators, Corners, and Tees
- Low Noise (<65 DBA)

www.amcautomation.com (248) 922-4740
The Power Zone Roller conveyor (PZR) is a modular handling solution that allows part accumulation without part contact or collision. The PZR is separated into individual “zones” and each zone is driven by a 110V bi-directional motor. The zones are filled separately and linearly, once a zone is empty it is then filled from the adjacent zone. Parts can also be run directly on the roller depending on their configuration.

The standardization of components gives one a commonality of spare parts, while still allowing floor layout flexibility. PZR conveyors come in standard lengths, allowing a floor layout to be assembled more quickly. With a wide array of peripheral components, ranging from Overhead Guided Vehicles to Rollovers available, AMC has your solution.

**Features And Benefits**
- Up to 1000Lb (453Kg) Max Load Per Drive
- Speeds up to 29.5 FPM (9 MPM)
- 25/30/50Ft Lengths Per Drive
- Medium and Heavy Duty
- Lift and Locates, Rotates, Reversible, Merges, Shuttles, OGV, Rollovers, and Turntable Corners
- Steel, Plastic, Friction, and Chrome Plated Rollers

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AMC incorporates its 20mm and 30mm plastic chain across a wide variety of applications. These chains are easily configured and are an economic solution for your short, dual strand, straight running conveyor needs. The 20mm & 30mm chains are often used in Lift and Transfer and Crossover conveyor applications across AMC’s family of conveyor systems.

Capable of being operated in reverse and able to operate up to 90 FPM, AMC’s 20mm & 30mm chain can be found in the automotive, appliance, and consumer products industries. Ideal for light zoned accumulation, product indexing, tote handling and pallet transfer between conveyors.

The 20mm & 30mm chains were designed with the utmost flexibility and modularity in mind allowing for seamless transition between multiple conveyor types. The 20mm and 30mm chain family of products do not require lubrication and the plastic surface is non-marring.

**Features And Benefits**

- Speeds up to 90 FPM
- Capable of Operating in Reverse
- Up to 1000Lb (460Kg) Max Load Per Drive
- Up to 35Ft (10M) Lengths Per Drive
- 2 Widths Available: 20mm and 30mm
Accumulation Tables are custom designed to allow for in line product accumulation as well as single file product discharge. Adding accumulation to your process allows for greater product throughput and allows the system to continue to run in the event of production interruptions. Accumulation tables can buffer hundreds of parts at once, thereby giving you more time to balance the production process.

The flexible design of our accumulation tables allow for product to sit directly on the chain or on top of a pallet, making them ideal for a vast range of products and production processes. AMC Accumulation tables are used in packaging, assembly and throughout the material handling world.

Accumulation Tables can be outfitted with plastic, steel or matt-top chains. The modular design allows for multiple entry and discharge options and will be custom engineered to fit your application.
JIT Trailers

Just In Time (JIT) Trailers are the fastest and safest way to transport large, time-sensitive parts in high volumes directly from the Tier 1 manufacturer to the OEM. Transport large time sensitive parts such as instrument panels, door panels, head liners, fascia, or axles.

JIT trailers use De-Springers and Tire Guides to perfectly align the trailer and dock eliminating any downtime. Automatic or manual electrical connections allow the trailer to be quickly connected to the controls system that loads in reverse order allowing parts to be unloaded in the correct sequence at the build facility. Timed with customer broadcasts, and custom designed controls system you can be assured parts will arrive on time and in the correct order. Each conveyor system is designed to maximize the trailer space allowing the most efficient use of truck space.

Matched up with our facility side load and unload system, trucks are unloaded completely upon arrival and the new sequenced immediately loaded without delay. JIT trucks can be turned around in as little as 5-10 minutes.

Features And Benefits

- Interface Between Tier 1 Manufacturer and OEM on a JIT basis to synchronize with broadcast.
- Save Time and Money
- Automatic Load and Unload (No Manpower Req’d)
- Trailers aligned to customers dock: De-Springers, Tire Guides, Hooks.
Solutions For Industry

MRC Transmission
Assembly Line

Modu-Flex 83 Spiral
Elevation Change

CDLR Zoned Accumulation
Solutions For Industry

Modu-Flex/Mattop Packaging

Sound Room for Seat Testing

Robotic Load Staging Conveyor
Solutions For Industry

Modu-Con 6
w/ 180°
Roller
Corners

Modu-Con 6
Low Cost
Assembly
Process
Module

Modu-Con 2
Side-By-Side
w/ Ergo Height
Adjustable
Workstations

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Solutions For Industry

MC 2/B Optical Tray Handling System

Indexing Belt Conveyor For Seat Cushion Assembly

Bi-Directional, Food Grade Accumulation Table w/ SS Frame
Solutions For Industry

Gravity Roller Line Side Delivery Conveyor

Modu-Flex 83 Medical IV Bag System

MRC Transmission Assembly
Solutions For Industry

Custom Conveyor & Elevators

Round Belt Interior Trim Handling

Modu-Con 6 Battery Cell Manufacturing System

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Solutions For Industry

Modu-Flex 83
Body in White Line Side Delivery

Modu-Con 6
Robot Unload Seat Assembly

Shipping System
Auto Height Adjustment Cart

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www.amcautomation.com
Manufactured Products Group

MPG is a division of AMC. We commit ourselves to developing long lasting relationships with our customers and do whatever it takes to make sure each and every customer is taken care of personally.

We use profile systems that are easy to process and quick to assemble. Its flexible and modular construction means it can be easily modified and is reusable at any time.

An experienced team will support you in implementing a system that is tailored to your individual applications, taking into consideration your required dimensions, loading capacity, and stability.

MPG can provide you with a wide range of products that are available. Applications are endless.

**PRODUCT OFFERINGS**
- Conveyors
- Custom Solutions
- Enclosures
- End of Arm Tooling
- Guarding
- Linear Systems
- Lineside Delivery
- Pipe & Joint
- Profile Systems
- Workbenches

**CONVEYOR SYSTEM**
The conveyor system provides optimal adaptation to the required task. Belt material, drive type and profile design can be combined in any number of combinations to best suit the application.

Simple handling, reliable technology and solid construction guarantees the problem free operation and long life of the system.

We offer a large range of standard sizes and designs. Special sizes and custom designs are available.

For self assembly, individual components and assemblies can be delivered along with parts lists and instructions as required.
PROFILE SYSTEM
- Clean-Room Technology
- Electrical Engineering
- Medical Technology
- Food Industry
- Optical Industry

ADVANTAGES BELT CONVEYORS
- Pivoting bearing housings for shaft bearings
- Simple belt tensioning
- Easy removal of drive motor and gearbox
- Short assembly times

SERVICE
The MPG service is as versatile as the profile system.

You may choose:
- Assembly at your premises
- Delivery of pre-fitted modular
- Delivery of completely assembled units
- Delivery of standard elements from factory
- Delivery of profiles and accessories cut to size according to parts list for customer’s assembly
Modified-to-Order Conveyor Systems
In the event that a standard AMC system or component does not entirely fulfill your requirement, tailor-made modification and fabrication is always possible. Whether you require a modified conveyor or a complete custom build, AMC’s technical application experts assist you in creating the optimal solution for your process needs. These experienced engineers analyze your application and develop a conveyor system that maximizes your process and productivity. Likewise, AMC’s ability to provide modified-to-order systems allows us to tailor a conveyor to easily integrate into an existing process or workcell.

System Setup
Unlike other companies that merely supply components, which require complete assembly, AMC can setup your conveyor system, perform run-off, inspect your system, and verify your process at our facility. By assembling your system at our facility, AMC eases handling, shipping, installation, and assembly operations while also minimizing your setup time.

Quality Products & Skilled Employees
All AMC products are domestically manufactured in our own facilities located in Davisburg, Michigan. To ensure that these conveyors and extrusions are of the highest quality possible, AMC continually invests in the latest technology, research and development, and training.

We continually work at educating our employees and use the latest Total Quality Management practices. The result is a line of products that is reliable, improves your productivity, and is cost-effective to reconfigure.

Customer Service
While our innovative products may impress, it is our service and support that truly separate AMC from other modular conveyor manufacturers. While other manufacturers merely send a product catalog and leave the ordering and installation up to you, AMC goes that “extra mile” to select and integrate the proper system for your application. AMC’s trained, experienced technical and field support staff provide quick answers and information, on-time delivery, and fast turnaround. We also offer installation and application support, custom engineering, and customer training seminars.

Installation & Training
AMC’s skilled installation experts can install your new conveyor system in a quick and efficient manner. In addition, our installation staff is available to reconfigure your existing conveyor to meet new application needs.