

## Specifications

### Basics

**Frame:** Extruded Aluminum Side Frame 7" high x 1.625" wide. Pre-punched Hex holes on 1" centers will provide the ability for 1-2" hard skewing.

**Supports:** are mounted on a special mounting cavity running the length of the conveyor. This eliminates the need for holes.

**Idler Roller:** Spring loaded on both ends for ease of installation and removal.

**Drive Roller:** 15,000 hours continuous running. Ends are secured by special fittings that protect the Hex Holes from distortion.

### Components

<b>Power Supply:</b>	<b>Input voltage/freq:</b>	90-260 VAC, Switched / 47-440 HZ
	<b>Output Voltage:</b>	Single output 24 VDC
	<b>Overload Protection:</b>	105 - 150%
	<b>Over Voltage Protection:</b>	115 - 135%
	<b>Working Temp/Humidity:</b>	0 to 50 degree C, 20% to 90% RH
	<b>Safety Specification:</b>	UL1012
	<b>EMC Specification:</b>	CISPR22 (EN55022) Class B, IEC801-1,2,3,4 IEC555-2

**Motorized Roller:** Brushless 24 VDC with inline 5.5 in-lb gearbox that are housed inside 1.9" tube. The motor has a controller that is equipped with dynamic braking for the accurate stoppage of the object. (30-240 FPM Adjustable speed).

**Idler Roller:** 1.9" outside diameter, spring loaded on both sides. Slaved via 3/16" urethane O'ring to the motorized roller.

**Sleeves:** Rollers can be covered with tapered sleeves for the curves, or straight sleeves should higher friction be needed such as inclines.

**Roller Centers:** The rollers are at 2", 3", 4" and 6" centers.

**Direction:** The motorized rollers can be reversed locally or via a remote device such as PLC analog output or variable resistor.

**Operating Modes:** Singulation, Train modes, and normal transport mode.

**Live Load:** 100 Lb per Zone (motorized roller).

**Noise:** With Atmospheric (background) noise 55 dba, 55-58dba @ 1 meter and 60-62dba @ 1 foot.

### Modules

**Straights:** 2.5', 3', 4', 5', 6', 7.5', 8', 9', 10', 12' Independent or Electrical Slave Modules.

**Curves:** 30°, 45°, 60°, and 90° Modules.

**Merge:** 30° Degree Left hand and Right hand Divert Modules. Offered on short and long primary.

**Divert:** 30° Degree Left hand and Right hand Divert Modules. Offered on short and long primary.

**UBT or RAT:** Right-Angle-Transfer comes in variety of widths and lengths to match the straight modules.

**Incline:** 18° Incline modules with variety of lengths.

**Decline:** 18° Decline modules with variety of lengths.

**Widths:** 14", 15", 16", 17", 22", 24", 28", 30". Other widths will be considered on special request.

## **Intelligent Package Systems**

A Division of  
**M2L Systems, LLC.**  
2122 113th Street  
Grand Prairie, TX. 75050

[www.qcon-24.com](http://www.qcon-24.com)

[www.qcon-24.com](http://www.qcon-24.com)

**Tel: 214-412-1400 Fax: 214-412-1403**

**Email: [mmortazi@IPS-24.com](mailto:mmortazi@IPS-24.com)**

# Qcon - 24™

**The intelligent conveying system  
designed to meet the demands of  
the 21st century.**



**Intelligent Package Systems**

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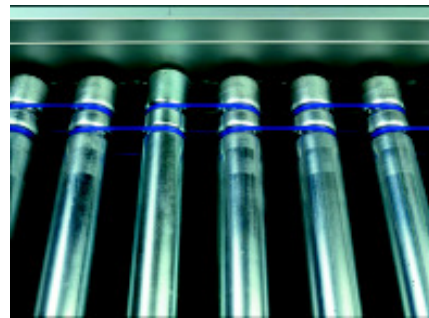


# Qcon - 24™

## Safety:

When engineering a product, safety is always the first concern. Unlike other conveying systems which use high horsepower motors, chains, line shafts, V-belts, and high voltage power to move their product, the Qcon-24 uses 24-volts to power its system and motorized rollers to move its product. The Qcon-24 has no chains, no belts, and no motor-gearboxes. This allows your employee to work in a pinch point free environment.

Qcon-24 motorized rollers produce 5.5 in-Lbs torque which is ample torque to move a 100 Lb. object, yet it can be stopped by hand. The Qcon-24 conveying system needs no E-stops, gates, or guards.



## Low/No Noise:

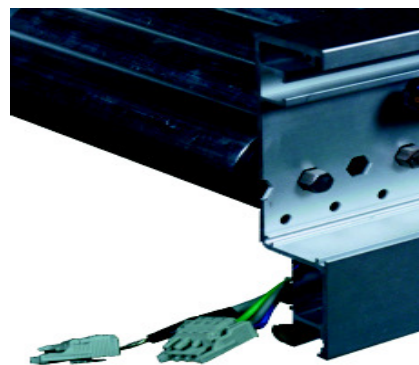
How many different distribution centers have you entered that did not require earplugs? Based on recent studies, high working environment noise can be directly related to an employee's health and job performance.

The Qcon-24 and its 55dba noise level (measured at 1 meter away with a background noise of 48dba) allows you to stand near the conveyor without even hearing it run. The Qcon-24 product is designed to run only when a photocell detects an object. This means the conveyor is in the stop mode when product is not present. This makes the Qcon-24 system ideal for stores, office environments and anywhere a low noise system is desired.



## Modularity:

The Qcon-24 is engineered with complete mechanical and electrical modularity in mind. Each Qcon-24 module is a complete unit. This system allows our customers to cost effectively add or change the modules quickly and easily. Mechanically, the Qcon-24 is a "plug-and-play" system. By simply bolting or unbolting the modules, the system can be configured or reconfigured to meet your needs. Electrically, each module is equipped with a micro PLC that contains the entire program for that section. All like modules have identical PLC programs making reconfiguration extremely simple.



## Quick Low Cost Installation:

How many times has the actual use of your conveying system been delayed due to manufacturing delays, and installation difficulties such as assembling on site, cutting, welding, running conduits, installing main control panels, commissioning and start-ups?

With the Qcon-24, the field work delays are gone. Why? The Qcon-24 system is manufactured in modules. Each module is fully built and tested before it is shipped. When the Qcon-24 product arrives on your manufacturing floor, its time to "Plug-and-Play." Plainly stated, the Qcon-24 product installs as fast as gravity conveyors.

**Standard Delivery  
3 - 5 Weeks**

**Installation Cost Re-  
duced by as much as 75%**

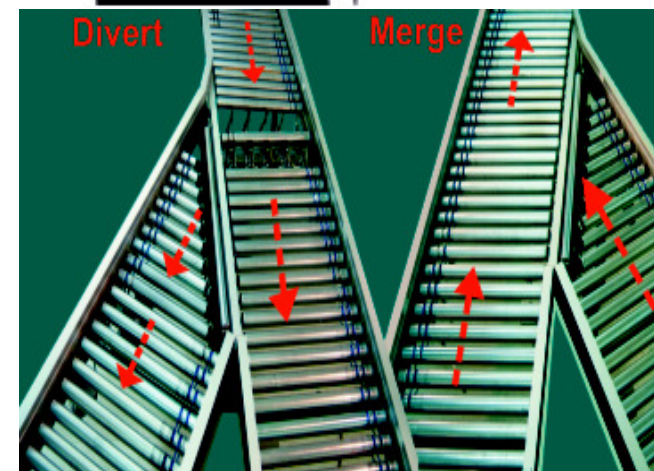
**Energy  
Efficient**



## Controls:

*Located under the rollers and mounted on a special hinged mounting plate.*

- u Micro PLC
- u 8 Inputs and 8 Outputs
- u Optional Host.
- u Local diagnostics, via LEDs
- u Plug-in I/O connectors
- u CAN bus network Can network up to 253 nodes with use of repeaters after every 64node.
- u Optional Host monitoring
- u Plug and Play Photocells.

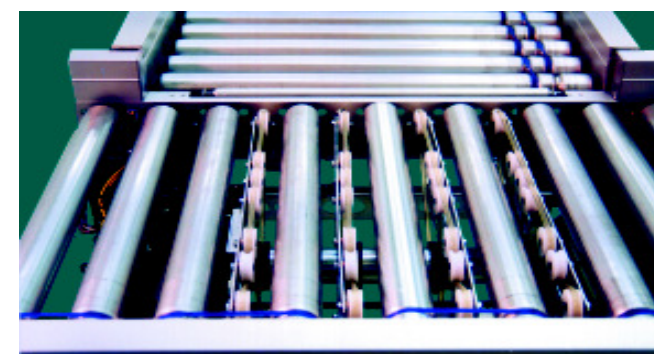


## Divert & Merge:

- u Divert capable of communication with scanners, Computers or PLC.
- u Cross over roller ensures product moves through completely.
- u Divert is 100% electrically operated
- u Modular, stand alone modules

## Lift-Gate:

- u 100% electrically operated
- u Locks in place
- u The gate is a complete zone
- u Product can be accumulated on the gate in the down position
- u Stops running when lifted yet product continues to accumulate up stream



## Right Angle Transfer:

- u 100% electrically operated
- u Adjustable speed
- u Operates independent from incoming or take away conveyor.
- u All standard widths
- u Modular construction

## Maintenance - Free:

The Qcon-24 is a relatively maintenance free conveying system. No longer will you need to change out motors, gearboxes, and belts. Checking your main control panel for tripped overloads, blown fuses, and welded contactors will also be unnecessary. Why? The interchangeable components of the Qcon-24: Motorized Rollers, idler rollers, and photo-eyes.

The "Plug-and-Play" concept is designed not only at the system level, it's also designed at the module level. This means any component in any module can be unplugged and replaced in a matter of minutes. This design minimizes both downtime and maintenance costs.

