

Quickdraw®

CONVEYOR SYSTEMS by MAGSTAR™ TECHNOLOGIES

Connecting Your Workplace

CONVEYOR ACCESSORIES

**STOPS, LEG SETS, CARRIERS, ADJUSTABLE WIDTH,
PALLET PUSHER & DRIVE OPTIONS**

Quickdraw® designs and manufactures conveyors for factory automation in cleanroom environments. A full line of modular components, both standard and custom, are ideal for medical, micro-electronics, and semiconductor applications. Headquartered in Hopkins, Minnesota, the company serves both domestic and international markets.



Stops

The **Standard Metering Stop** consists of a pneumatically actuated pin and mounting block. The customer may specify the sensor style, output, and location.

The **Cushioned Metering Stop** is a pneumatically actuated pin coupled

with a shock absorber designed for impact-sensitive products. A ball slide allows the pin to travel and decelerate through the length of the shock stroke. The shock resistance is carefully matched to the weight and speed of the product or carrier being transported.

We offer metering stops with a variety of **product detect sensors**. These include fiber optic sensors, self-contained diffuse reflective sensors, through-beam fiber optic sensors, and proximity switches.

Product Carriers

Product Carriers are custom designed fixtures used in product assembly. They come in various shapes and sizes as shown on the

Shuttle Conveyor and the MR Diverter. When used with the Lift & Locate module, automatic locating can be repeated within ± 0.0035 inches of true position. The bushings in the two corners mate with the pins in the Lift & Locate dock.



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Leg Sets

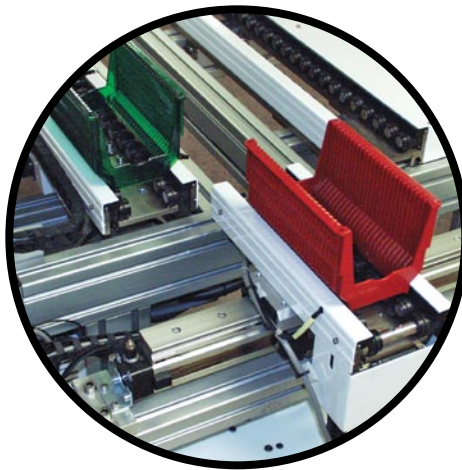
Leg sets come in standard configurations but can also be designed to accommodate customer specifications. They are made from aluminum T-slot extrusion selected for its durability, design flexibility, and appearance. The sets may include swivel leveling feet and “L” base feet for mounting to the floor.

Adjustable Width

This system couples the standard MR conveyor with a precision ball-slide carriage and track. Because a dedicated motor drives each rail independently, the width can be easily adjusted. This conveyor is ideal for applications that require the transport of products with varying widths and offers a cost-effective means for fast changeovers between different products.

An optional setup (not shown) includes a single motor with a splined drive shaft.

The precision grade and length of the slide is customized to your requirements. Our standard lock-down handles may be applied to several types and brands of ball slides.



Shuttle

The **Shuttle** moves product from one lane to a parallel lane. This can be a return lane, an adjacent lane, or converging or diverging lanes (e.g. one lane into two). It consists of a conveyor mounted to a pneumatic actuator.

Product arrives on the Shuttle Conveyor and stops. Then the actuator moves the Shuttle Conveyor to the new position, and the Shuttle Conveyor drives the product off. An electric actuator may be used for multilane indexing processes.

Drive Options

DC Drive

Quickdraw® conveyors feature DC brushless motors controlled by a driver card operating at 24 VDC. This combination offers high reliability, vari-

able speed, selectable direction, and PLC or relay control in a low voltage compact package. Users may also select one of the Quickdraw® NEMA rated control boxes in 1, 2, 3, 4 (or custom) driver formats ready for control of the conveyors, or may purchase driver cards separately, implementing them in their own controls enclosure.



AC Drive

As an option to 24 VDC brushless operation, AC motors are available in either fixed speed or variable speed configurations. Please contact a Quickdraw® Applications Engineer with your load, speed, and power (220/110 VAC, 50/60 Hz) requirements for more information.

