

THE EXPERT IN "PARTS MANAGEMENT SYSTEMS" Parts Diverters

A part diverter is used to change the direction of a shot of parts, the discharge of a complete cycle or cycles of parts from an injection molding machine. MAC Automation Concepts, Inc. currently offers two different styles of part diverters, also known as "part discriminators" in the injection molding industry.

Under the Press Diverters:

Units sit under or hang directly from the injection molding machine and operate upon a specified signal from an IMM or process controller. A pneumatically operated tipping tray internal to the diverter housing will discharge parts out the opposite end from where all "Good" shots discharge. The two different styles of under press part diverters are a free standing unit and a quick change type:

Free standing S1 - The free standing diverter, also designated by S1 type, is either a square or rectangular stainless steel housing with an internal pivoting tray actuated by a pneumatic air cylinder positioned either under the internal tray, or alongside the housing. The unit is typically supported by a mild steel T-type support Stand that is 20" tall and allows the housing to adjust vertically. An air control kit consisting of a ready to mount plate supporting a solenoid valve with filter and regulator/gauge and ¼" air hose from air valve to cylinder is included. Optional chute extensions in standardized lengths are available to add to the housing on either side to aid in part discharge.



Quick Change Rail S1 - The quick change rail S1 type is also either a square or rectangular stainless steel housing with an internal pivoting tray actuated by a pneumatic air cylinder positioned either under the internal tray, or alongside the housing. This unit is typically supported by an optional QCRA1 or QCRA2 quick change rail attachment kit for either press depths up to 36" or 48" deep. This style allows the rail attachments to support the load and provides for an easy install, removal or movement process. An air control kit consisting of a ready to mount plate supporting a solenoid valve with filter and regulator/gauge and ¼" air hose from air valve to cylinder is included. Optional chute extensions in standardized lengths are available to add to the housing on either side to aid in part discharge. Many other options are available – please inquire.



1760 Kilkenny Court
Woodstock, IL 60098
Phone: 815-337-3000
Fax: 815-337-3020
E-mail: sales@macautomation.com
www.macautomation.com

THE EXPERT IN "PARTS MANAGEMENT SYSTEMS"

Conveyor Mounted Parts Diverter

MAC Automation currently offers 6 different orientations for conveyor mounted parts diverters. These are used either at the in-feed or discharge end of the conveyors. Four of the six may be used with flat or cleated type conveyor belts. Uses at the in-feed end of a conveyor are primarily when the IMM cycle time is very fast, and/or where a reversing belt conveyor may not be feasible. Primary use at the discharge end is when the good part container and bad part container need to be on the same side of the IMM.

PD1 – Pneumatically operated rail that has a pivot point and an air cylinder to angle the rail across the belt surface to side discharge the product. Includes air control kit. This is for non-cleated belts only, must use slider bed on conveyor frame and hard durometer belt surface.

PD2 – Similar to PD1 with the exemption of the pneumatic controls.

PD3 – QCRS1 style housing in standard dimensions with flanged bottom to mount to either the conveyor frame or the side rails, when using a top return on rails. The unit is mounted at the in-feed end and directs the flow of products in the direction of belt travel for good parts and off the end of the conveyor for rejected parts. Includes previously mentioned air control kit package.

PD4 – QCRS1 style housing in standard dimensions with flanged bottom or flanged top to mount with special brackets to the discharge end of the conveyor, which may be the drive end or the idle end. The unit is mounted at the discharge end and directs the flow of products in the direction of belt travel for good parts and off the end of the conveyor for rejected parts. Includes previously mentioned air control kit package.

PD5 – QCRS1 style housing in standard dimensions with flanged bottom to mount to either the conveyor frame or the side rails, when using a top return on rails. The unit is mounted at the in-feed end and directs the flow of products perpendicular to the direction of belt travel bad parts. The housing is taller than normal due to a corner mounted pivot point. Includes previously mentioned air control kit package.

PD6 - QCRS1 style housing in standard dimensions with flanged bottom or flanged top to mount with special brackets to the discharge end of the conveyor, which may be the drive end or the idle end. The unit is mounted at the discharge end and directs the flow of products perpendicular to the direction of belt travel for good parts and bad parts. Includes previously mentioned air control kit package.



NOTE: Images shown may not be exact to the description given. Many products are custom designed.

✧ 1760 Kilkenny Ct.
Woodstock, IL 60098

✧ Ph: 815-337-3000
✧ Fx: 815-337-3020

✧ sales@macautomation.com
www.macautomation.com