

“Out-of-control” racks!!!

Problem. Often paint racks are hung from a conveyor by two points in order to provide rack control through the various stages of finishing. However, if inclines and declines and/or turns are present on the conveyor line, which is almost always the case, hanging from two points can create major problems. This is true whether using a rack or individual hooks for parts density.

A shift in gravity will often occur when racks of parts are longer than they are wide. Ultimately, the lower hook disengages from the conveyor on the incline or decline leaving the weight to be supported by only one hook. Sometimes people design “pig-tail” hook ends or use chains to try to resolve this problem – still leaving the part hanging by only one hook.

In addition, turns on the conveyor always shorten the distance between two hang points and thus require pivoting hook points on the rack to eliminate binding. This may create loss of grounding after several cycles.

Solution. It is always best to hang from one point and design a “rack control” feature into the top hook of the rack (several options are available) to avoid these problems before the racks are manufactured.

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