CONVEYORS DIRECT
Engineered Conveyor Solutions

Case Study: #126

Appliance Industry

COMPANY

Major USA appliance manufacturer

OBJECTIVE

Eliminate production downtime due to jammed scrap conveyors. Design reliable replacement conveyors to accept and transport small, thin punchings from a panel forming machine and into a hopper without jamming on accumulations of scrap.

SITUATION

After a visit to the site, Conveyor Direct, Inc. determined that the size and form of the scrap pieces were small enough to fit into gaps in the guides, frame and hinged steel belting of the original conveyors. Over a short period of time, the scrap would accumulate within the frame of the conveyor and reach a volume that would bind the guide system of the hinged-steel belt and the drive would overload, shutting down production.

SOLUTION

Conveyors Direct, Inc. replaced the conveyors with our 1505 Series Low-Profile modular plastic belt conveyors.

1. The 1505 series conveyors have a very tight pattern between links of the 9/16” pitch belting which minimizes any opportunity for small scrap to enter the conveyor yet these durable molded plastic links far outlast any PVC or fabric belt material.
2. We designed and implemented a unique hinged guide design that both prevents scrap from reaching the edge of the belt but also “floats” preventing small scrap from wedging between the belt and guide.
3. Our innovative forward tensioned design is ideal for conveyors inserted into machines. Belt adjustments can be made at the exposed end of the conveyor. The idle features a nose-bar that conforms to the underside of the belt links to minimize maintenance.

BOTTOM LINE

Up-time!
With the Conveyors Direct, Inc. 1505 series, the customer has experienced trouble free operation! No longer is an important production system held ransom by a poorly applied and constructed conveyor.

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BEFORE: Hinged steel belts with large gaps prone to jam on accumulations of small scrap

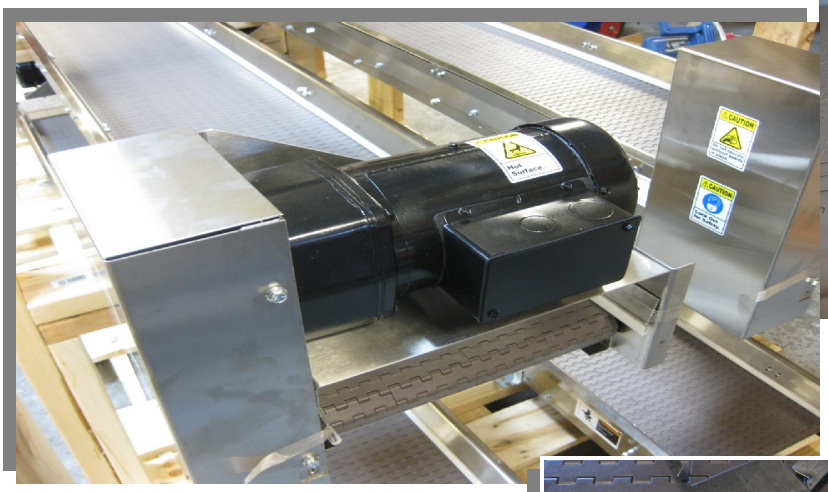


AFTER:

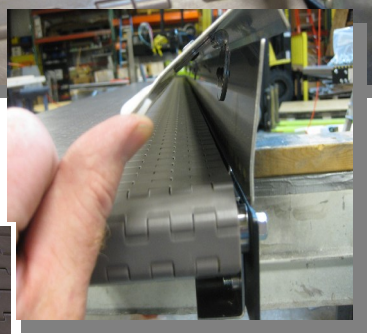
Below: 1505 End Drive, 460V, 3ph, Inverter duty

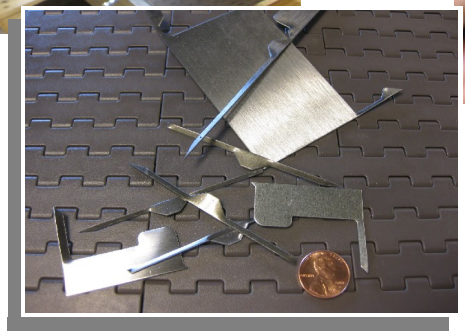
Right: 1505 low profile, 9/16” pitch hard plastic belt with sprocket drive.

Inset: Hinged guide-rail reduces jams & scrap shapes.









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