

BTC Carrier *Gripper Conveyor System*



Improvement of newspaper pickup and delivery control, the BTC-Gripper Conveyor System minimizes loss paper from Carrier transition.

BTC Carrier is a Gripper System originally designed by KKS. The system can grip the paper direct from the delivery fan (supplied on TKS newer presses) to the stackers. The system is equipped with a special chain called Indirect Catch Carrier (IDCC) that replaces the conventional delivery belt laydown. One of the big advantages is the IDCC will transport the product in a very stable condition, not effected by page count changes adjustments.

KKS has developed a pulse control double cam system which allows the paper detection device and the release of printed product to be consistent for each product at speeds of up to 100,000 copies per hour.

Features of the BTC Carrier



The gripper is a closed system which grasps the center portion of the newspaper with a lightweight gripper. Construction consists of one fixed section and a moveable section made with two coil springs. In addition, because the release is made of a special resin, the gripper is nearly maintenance free with no need to supply oil.

The transfer carrier skid bearings, universal joints and collar are all made from a resin similar to the gripper. Since the carrier is mounted and fixed, lightweight and durable, it is nearly maintenance free.

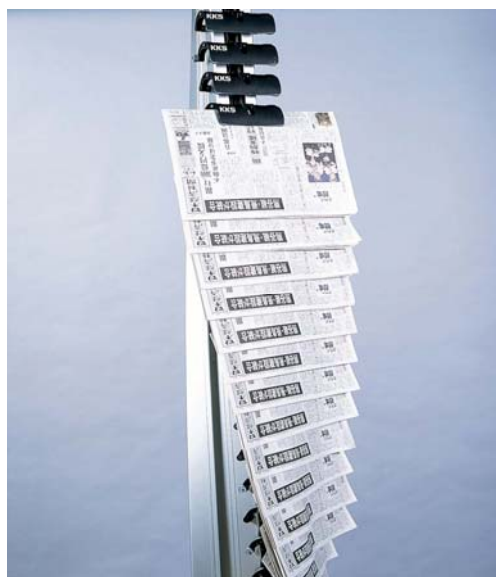


The gripper rail is a double rail of aluminum. KKS can make curves and twist in the rail in small distances.

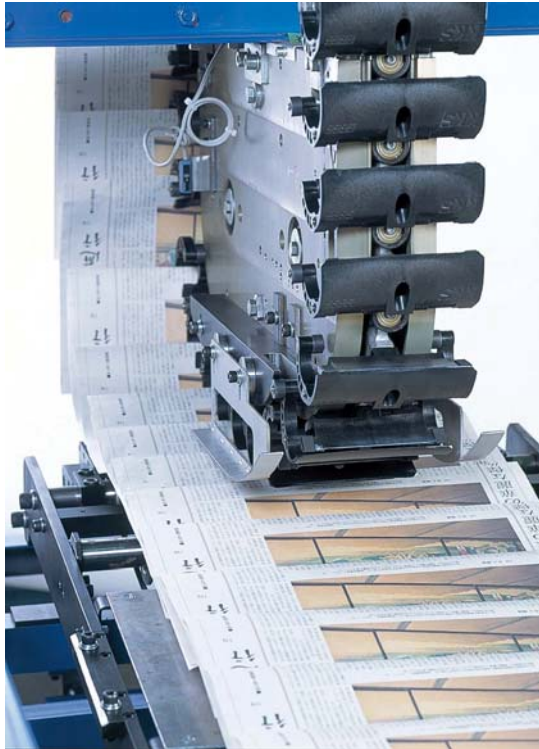


The release mechanism and the paper detector device have gripper levers on both sides and the release cam can act as a double system so the open and close operation is worry free, resulting in each newspaper being outputted smoothly and at maximum speed.

The Gripper Conveyor drive system uses a servo motor. This results in smooth transition of conveyor speed during speed changes and initial loading of conveyor.



The loading area uses the Indirect Catch Carrier (IDCC) which grips the newspaper from the folder fan. The IDCC passes the printed product to the center grip while eliminating the need of a belt conveyor, which sometimes causes unstable delivery from the folder and can cause folder jams. No adjustments are needed on the IDCC based on page counts.



Specifications

Newspaper size	Max. 16" (430mm) x 12" (310mm) Min. 9.5" (240mm) x 6.9" (175mm)
Newspaper pages	4 to 128 pages broadsheet
Newspaper speeds	Max. 100,000
Gripper pitch	3" (76.2mm)
Pickup pitch	3.93" (100mm)
Drive unit	Shaftless decentralized drive
Gripper rail	Lightweight, high-precision cast extruded aluminum.

Pictures from Columbus OH installation

