

CANRACK

METAL CENTER SYSTEMS

**DIRECT PICK
BAR ORDER
FILLING STATION**



Picking, strapping and accumulating bundles of bar orders can represent most of the manual handling required in a Metal Service Center. This normally requires lifting, bending or twisting during manual handling and walking over orders piled on the floor with crane pendant in hand. These bad practices are **ergonomically** incorrect and lead to compensation claims and MSD (musculoskeletal disorders).

The Direct Pick Bar Order Filling Station accepts products that are direct picked from the racks by one or two man-up sideloaders or items that are pan flipped or crane lifted out of the pan to be delivered to the station. Orders are then placed directly onto receiving chains which convey to the order filling operator. Manual handling is eliminated and banding is done at the right height with overhead supported tools. All work is **ergonomically** correct.

Bar items are exposed to the operator and checking size and quantity is easily done without manual effort. Products are selected in proper sequence to prevent product damage from heavy items mixing with light items. Impact bars with urethane covers lower the material to banding that eliminates scratching and dents.

Mechanical functions are controlled by the operator from a control panel using hydraulic motors and cylinders to effect material movement. Good, tight bundles are formed quickly and multi-line orders are completed in 2-3 minutes. Processing of 160 orders per shift with one order filling station operator can be achieved. Finished orders can be automatically staged in route lots for direct truck loading eliminating the need for floor accumulation and extra crane handling.

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Productivity Features of Direct Pick Stations



Picked orders are brought to the station on the forks of a sideloader and placed on the accumulating chain conveyor. Separation wedges allow several orders to be placed with separation between each order. This can allow banding of individual lines which can then be banded into the complete order.

The picked orders are jogged forward to the station operator for bundling and strapping. The sideloader operator can operate with remote control or the station operator can move material forward from his control panel.



Bundling straps cinch the material into a tight bundle for strapping. The operator has hydraulic controls allowing him to rotate and compress the material to achieve nesting of material and make square bundles for squares, rectangles and flats.

Overhead supported pneumatic strappers give quick and easy banding. The order is then automatically conveyed to one or more finished order accumulation zones. This allows the operator to immediately begin processing the next order and increases throughput of the station.

