

CUT SHEET

NBS®90 PolySort

Narrow Belt Sorter 90° PolySort



MHS CONVEYOR EXPANDS ITS NBS TECHNOLOGY TO INCLUDE SORTING OF POLYBAGS AND “NON-SORTABLES”!

In an ever evolving material handling atmosphere MHS Conveyor leads the industry again by introducing an NBS90 derivative specifically designed to sort polybags, jiffy packs, flats, and other odd shaped loads. MHS Conveyor's NBS90 PolySort provides for 90° diverting of both cartons and polybag type loads at rates of 50 CPM and above.

Perfect for handling those “un-sortable” loads like polybags, the NBS90 PolySort supplies the solution that most dot-com fulfillment centers require. Even higher sort rates can be achieved when conveying more stable or flat loads.

Following in the footsteps of the other successful MHS Conveyor's NBS sorter designs, the PolySort achieves its success with tighter carrying belt and transfer roller centers. The transfer rollers sit lower when not activated and raise higher when diverting to maximize the clearance between the loads and the carrying belts. Extra protective guides and special rubber transfer roller covers create a clean and quick divert action which allows for high transfer rates.

An SEW Movimot transfer motor with Ethernet connection contributes to the performance and maintainability of the sorter. This connection allows for system monitoring and real-time speed changes from a PLC. The NBS PolySort operates at speeds up to 300 fpm.

As with the rest of the NBS line, the carrying belts are driven by an efficient, direct drive power train eliminating a chain or gear-belt transmission which requires maintenance.

Individual belt take-ups adjust for varying belt stretch. As with all NBS sorters the PolySort is a modular design which allows for transfer adjustment within the frame. Additional transfers can be added to existing beds in the future as well.

STANDARD SPECIFICATIONS

Product Weight

less than 20z. up to 40 lbs. Max.

Bed Width

Nominal widths of 26.5

Bed Length

Over-all-length is over 50' and up to 100' in length, an addition auxiliary air take-up is required.

Belts

Belts and Divert Rollers are on tighter 2-1/2" centers to help support pliable or irregular products

Belt Quantity

9

Carrying Rails

Extruded aluminum rails mounted on 2.5" centers

Standard Speeds

120, 210, 240, 270 and 300 FPM

Divert Rate

The maximum divert rate for a NBS90 PolySort single-direction and bi-directional is 50 CPM.

Bed Rail

Bed rail connections and infeed points are rounded and scalloped to reduce product snagging

Divert Tubs

Fitted with infeed ramps between each lane to minimize snagging and maximize rate

Photo eyes

Small Array Photo Eyes are used to sense products 5mm thick

Normal operating temperature

+50F to +120F. **System requirements below +50F should be referred to the Applications Engineering department for analysis. Additional horsepower may be required.**

Paint

Components located within the framework are painted black. All other components are painted job color. All MHS Conveyor paint is powder coated.

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Unparalleled performance in the 90 degree transfer of a wide range of polybags, jiffy bags, mailers, and cartons bi-directionally up to 50 parcels per minute.

Features	Benefits
Specifically designed to handle those hard to transfer loads	Polybags, flats, envelopes, and cartons can now all be sorted on the same sorter
Nine, closely packed carrying belts	Prevents loads from dipping below the surface
Extended transfer lift range, raised and lowered	Keeps poly bags from snagging on structure
High friction natural rubber transfer roller coating	Provides maximum grip to transfer the slickest loads
SEW Movimot transfer drive motor	Powerful, instant acceleration for all transfers
Direct drive, 97% efficient gear motor sorter drive	Eliminates drive train maintenance
Individual belt take-ups	Provides for even, consistent belt tension across all belts
Transfers a wide range of load sizes and weights from 4" x 4" x 2oz. to 24" x 28" x 40lbs	Provides a sorting solution for a wide range of customer needs
Transfer components are all accessible from the top	Speeds and eases any necessary maintenance

ABOUT MHS CONVEYOR

MHS Conveyor is a leading worldwide supplier of dynamic, high-quality automated conveyor and sortation technologies used to transport a wide variety of products. MHS Conveyor manufactures high-quality equipment, sold through a partner network of factory-authorized distributors as part of complete, integrated logistics solutions engineered to meet the needs of each customer.

MHS Conveyor Corporation

1300 E. Mt. Garfield Road
Norton Shores, MI 49441
231.798.4547

mhs-conveyor.com

