



HC SORTER

Reliable sorting with high capacity

The MHS HC Sorter is a versatile sorting solution which differentiates itself from other solutions by the advanced design, high capacity and low noise level. This sorter is capable of sorting products with a large variation in size and weight.

FUNCTIONAL FEATURES

- A **patented fully closed deck** which prevents dust to enter the sorter and preventing cartons to get stuck between the slats.
- **Most silent** shoe sorter on the market.
- **Modular design**, customer specific design configurations with standard components.
- Innovative and patented **high speed divert** system which enables reliable sorting at high speeds.
- **Smooth product handling**, because of advanced C-shaped sliding shoe design with cushioning elements.
- The **single-sided sliding shoe** reduces the necessary distances between parcels on single-sided sorters.
- **Easy sorter access** for maintenance to minimize downtime.
- Standard powered by highly reliable SEW 400 or 480 VAC **electric motors**.
- During operation the HC Sorter can **move products up to 50 kg**, for support and maintenance purposes a maximum static load of 100 kg/m is allowed.
- Each MHS product is designed for a **safe and ergonomic working environment**. All equipment is CE certified and has a minimized noise level.
- Both a **pneumatically** actuated and a **fully electrical** version of the sorter are available.

THE HC SORTER FOR INTEGRATORS

The HC Sorter is also available for integrators with endless possibilities due to its highly modular design. The narrow slats and the possibility to mount diverts and chutes at infinitely variable locations offers great potential. It allows the chutes to be mounted at any given position, with a small pitch between them, to optimally use the length of the sorter regardless of its surroundings.

CONFIGURATION AND PERFORMANCE

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|---------------------------|-------------------------------|----------------------|-----------------------------------|
| Sorting angles: | 20/25/30/45 degrees angles | Transport width: | 400/600/800/1000 mm |
| Max. transport speed: | 3.0 m/s | Sorter length: | 12-150 m |
| Advised max speed at 20°: | 3.0 m/s | Max. product weight: | 50 kg/m |
| Advised max speed at 25°: | 2.6 m/s | Max static weight: | 100 kg/m |
| Advised max speed at 30°: | 2.0 m/s | Environment: | 1-45 degree Celsius |
| Advised max speed at 45°: | 1.5 m/s | Safety: | Fully compliant with CE standards |
| Divert switch: | Pneumatic or electric | Sliding shoe type: | Double or single-sided |

FUNCTIONAL CONTROL FEATURES

- The MHS control package creates a plug-and-play sorter. After site assembly the sorter automatically determines its hardware configurations (e.g. the location of the diverts switches) and auto calibrates.
- For the pneumatic version the operating pressure is 6 bar (dried air) and the compressed air consumption. Is 0,006 dm³ per product for one-sided sortation, and 0,01 dm³ per product for two-sided sortation. Electrical switches consume 3 Joule per product.
- Interfacing is based on TCP/IP messages.

TECHNOLOGY

- Multiple sorters can be synchronized and connected, resulting in an almost endless sliding shoe sorter concept.
- High system availability is ensured by a multitude of factors:
 - The patented divert system is fail safe by design. In the unlikely event of a miss-sort the system is not affected.
 - To prevent serious damage to the HC sorter, it is equipped with an automatic health monitoring system. Critical system functions are continuously monitored to ensure a high performing and safe system at all times.
 - The system is highly serviceable. Parts can be swapped with minimal downtime. Moreover, the system has built-in features to report specific failures to service engineers.
- The HC Sorter is equipped with special noise absorbing materials and a closed deck. These measures result in the most silent sorter on the market.