POWER TRANSFER

THE HIGH-CAPACITY TRANSFER UNIT FOR
MULTI LINE PNEUMATIC TUBE SYSTEMS

- **Higher transfer capacity** by efficient carrier distribution between lines
- **Faster delivery of emergency samples** by overtaking function of high priority carriers
- **Maximising throughput** by simultaneous, bi-directional carrier handling
- **Optimized empty carrier management** by temporary storage position for empty carriers
- **Optimal transfer processing** by dynamic assignment of carrier storage positions to lines
- **Safe, reliable operation and easy maintenance** by proper, mechanically well engineered construction
Power Transfer is a sophisticated transfer unit for multi line pneumatic tube systems. It connects several lines to a network and enables transactions from every to every station. The efficiency is optimized by several advanced features:

**EFFICIENT CARRIER DISTRIBUTION**
In large systems with increased transfer frequency a quick, reliable operation is deciding. Power Transfer combines high performance carrier distribution with highly sophisticated engineering.

The transfer capacity of Power Transfer amounts to at least 400 transactions per hour. If traffic requirements exceed this capacity the Power Transfer will cope by simultaneous, bi-directional transfer.

**MAXIMAL THROUGHPUT**
The efficiency of a systems relies heavily on the performance of the transfer unit. With intelligent technology Power Transfer is able to cope flexibly with any traffic requirements. Carriers are handled simultaneously at the same time. Therefore maximizing throughput as well as minimizing transport times are guaranteed.

**FAST DELIVERY OF EMERGENCY SAMPLES**
A number of carrier storage positions can be exclusively reserved for high priority carriers. Therefore urgent transfers can overtake other carriers which have arrived earlier at the transfer. This allows for guaranteed short transportation times for emergency samples.

**OPTIMIZED EMPTY CARRIER MANAGEMENT**
The storage positions are also used as buffer for empty carriers. If required users can call empty carriers from this buffer. In application with auto unloading stations Power Transfer can be used as an incoming and outgoing buffer of auto unload carriers for multi sending stations and multi receiving stations.

**OPTIMAL TRANSFER PROCESSING**
Power Transfer is an intelligent device, which moves bi-directional, always moving directly from sending lines to receiving lines. The storage positions are dynamically assigned to the lines; i.e. the positions are not physically assigned to a defined line. Therefore flexible, quick transfer processing and perfect coping with automatic adoption to changing traffic requirements are guaranteed.

**RELIABLE OPERATION**
Wear-resistant components (well proven in various heavy duty industrial applications) and high reliability help to make the system operation safer and minimize the need for maintenance. Convenient real time system supervision of all processes in the Power Transfer is ensured by the Power Control visualization software. This includes exact location of each individual carrier in real time.
CONNECTION TO THE SYSTEM
As the ‘heart’ of the system, the Power Transfer enables connection of several existing lines to one network, enabling each carrier to reach its ‘target’ station quickly.

SOPHISTICATED TECHNOLOGY
The carrier storage positions are designed as conveying element, which is being driven via a rubber-steel belt by frequency controlled 3-phase, high-performance motor. The connection to lines is realized by sending and receiving units, which includes one carrier storage position per line. The frequency control ensures soft acceleration and deceleration of the conveyor which is important for sensitive items such as laboratory samples.
The Power Transfer offers up to 3 times more transfer capacity than other transfer technologies. Several Power Transfers can be combined to increase the number of lines and / or the number of storage positions if required.
## Station and Assembly Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>max. line connections</th>
<th>carrier storage positions per device</th>
<th>dimensions (L x W x H, mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 mm</td>
<td>4&quot;</td>
<td>16 lines</td>
<td>2875 x 914 x 1884</td>
</tr>
<tr>
<td>160 mm</td>
<td>6&quot;</td>
<td>24 carriers + 1 per line</td>
<td>2875 x 914 x 1884</td>
</tr>
<tr>
<td>160 mm</td>
<td>6&quot;</td>
<td>32 carriers + 1 per line</td>
<td>3730 x 914 x 1884</td>
</tr>
</tbody>
</table>

### Our References:

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