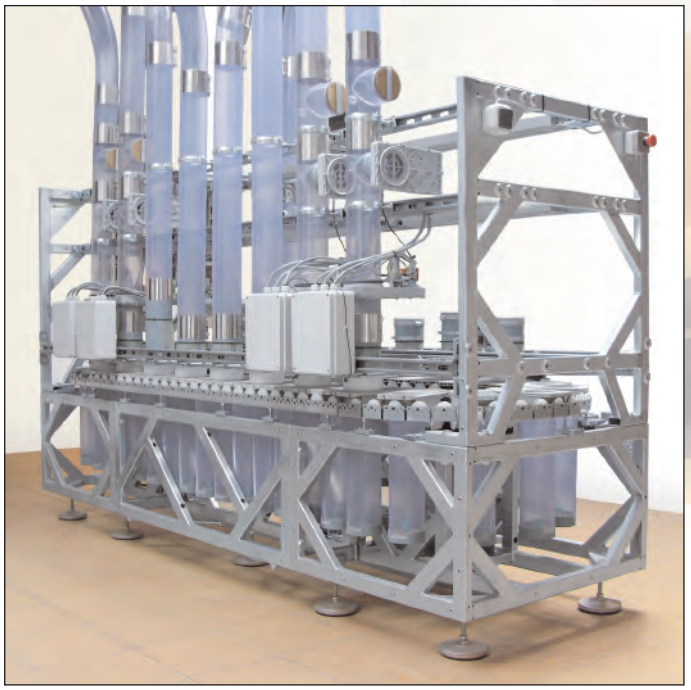
POWER TRANSFER

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

Sumetzberger®
Pneumatic Tube Systems

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 exceeds 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. Therefor 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.

Urgent transfers like emergency transfers are able to overtake

OPTIMIZED EMPTY CARRIER MANAGEMENT

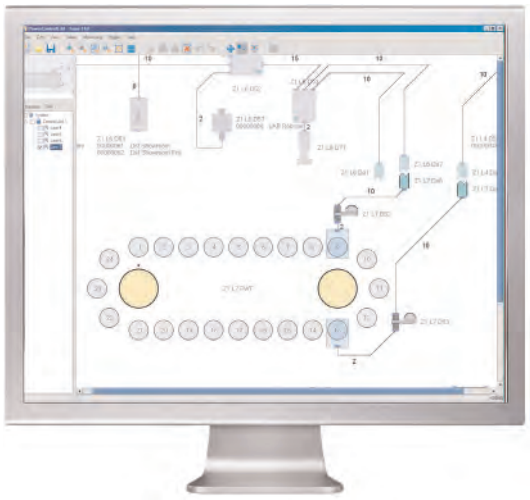
The storage positions are also used as buffer for empty carriers. If required users can call empty carriers from this buffer.
In application with auto unloading stations Power Transfer can be used as an incoming and outgoing buffer of auto unload carriers for multi sending stations and multi receiving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

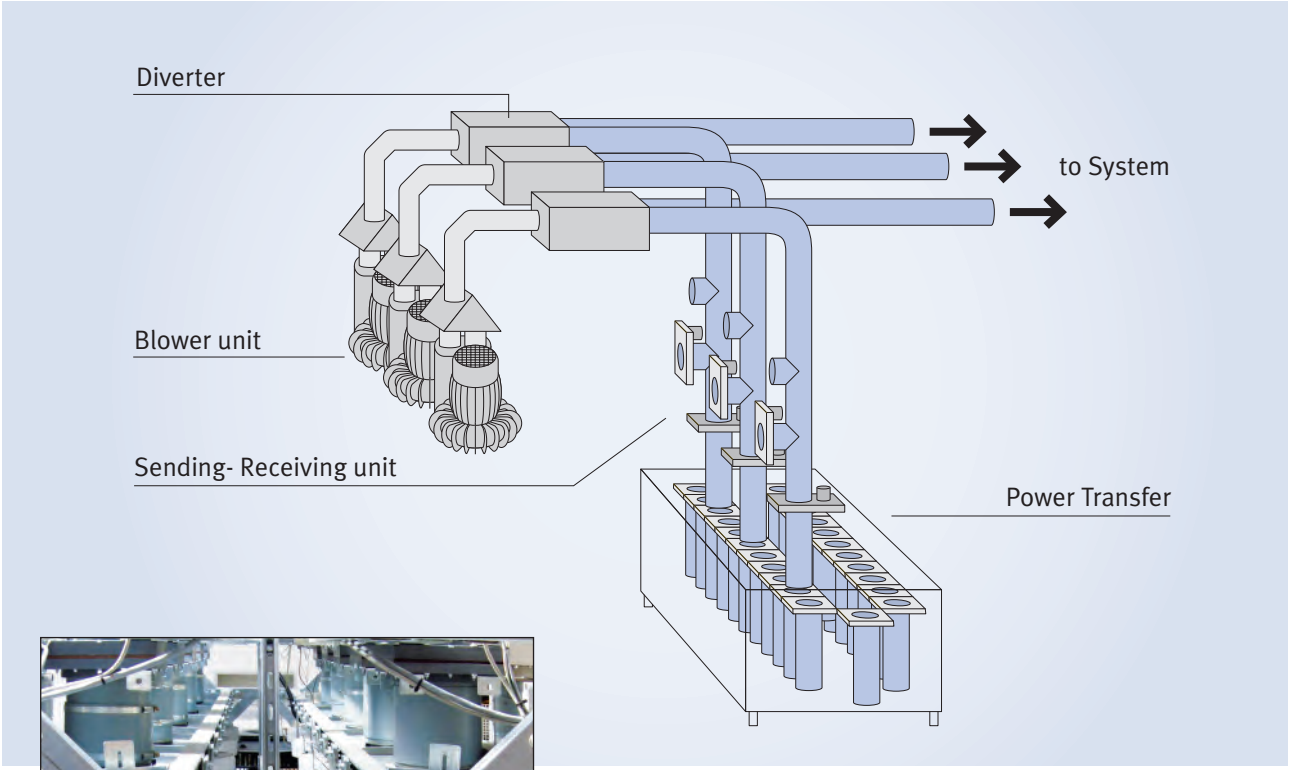
RELIABLE OPERATION

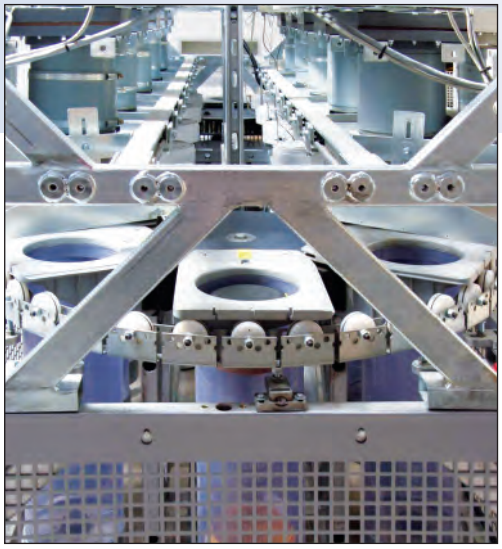
Wear-resistant components (well proven in various heavy duty industrial applications) and high reliability help to make the system operation safer and minimize the need for maintenance. Convenient real time system supervision of all processes in the Power Transfer is ensured by the Power Control visualization software. This includes exact location of each individual carrier in real time.



Real time supervision on the PC

CONNECTION OF POWER TRANSFER TO LINES:





The Power Transfer unit

CONNECTION TO THE SYSTEM

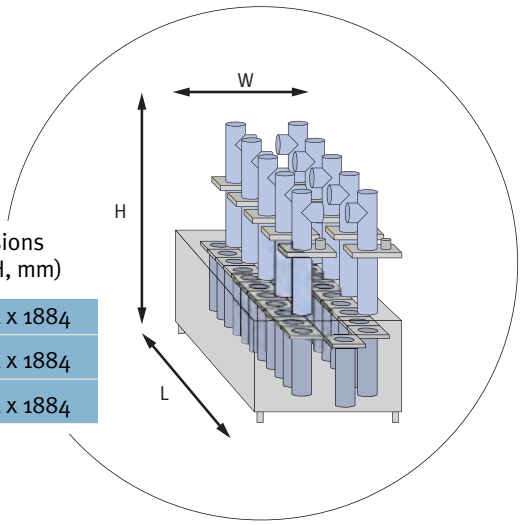
As the 'heart' of the system, the Power Transfer enables connection of several existing lines to one network, enabling each carrier to reach its 'target' station quickly.

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

Dimensions		max. line connections	carrier storage positions per device	dimensions (L x W x H, mm)
110 mm	**4"**	16 lines	40 carriers + 1 per line	2875 x 914 x 1884
160 mm	**6"**	10 lines	24 carriers + 1 per line	2875 x 914 x 1884
160 mm	**6"**	14 lines	32 carriers + 1 per line	3730 x 914 x 1884



Our References:

Belgium: *Heilig Hart, Leuven* • ***China:*** *General Military Hospital, Beijing* • ***Czech Republic:*** *UH in Hradec Kralove* • ***Germany:*** *UKE Hamburg, Hospital Rosenheim* • ***Great Britain:*** *Kingsmill Hospital, Mansfield* • ***South Korea:*** *Pusan University Hospital; Kang Nam Hospital; Chon Buk National University Hospital, Seoul*

Austria: *Hall (Tyrol), Lienz (Eastern Tyrol), Villach, Wolfsberg, Graz, Linz, Baden, SMZO-Vienna (Danube Hospital), Deutschlandsberg, Rottenmann, Vöcklabruck, TILAK Innsbruck* • ***Australia:*** *Westmead Hospital, Northern Hospital Melbourne, Monash Hospital, Prince of Wales, Royal North Shore, Princess Alexandria, Royal Prince Alfred, Wollongong Hospital* • ***Canada:*** *Toronto East General Hospital* • ***China:*** *Quingdao Hospital, Henan Medical University Hospital* • ***Czech Republic:*** *Cardiological Hospital Brno, General Hospital Brno* • ***Finland:*** *Tampere University Hospital TAYS, University Hospital Helsinki, Central Hospital of Vaasa* • ***Germany:*** *Klinikum Landshut, District Hospital Landshut, Regensburg, Bergen, Erfurt, Berlin/Spandau* • ***Great Britain and Ireland:*** *Monklands Hospital Airdrie, Weston General Hospital, Re Royal Devon and Exeter Hospital, Musgrave Hospital Belfast, Bedford Hospital, Causeway Hospital, St. James's Hospital, Glenfield, Royal Victoria Hospitals Belfast* • ***Italy:*** *Hospital Fatebenefratelli; Hospital San Raffaele, Milano* • ***Japan:*** *Tosei Hospital* • ***Malaysia:*** *Melakka, Putrajaya, University Hospital* • ***Saudi Arabia:*** *King Fahad Children Cancer & Research Center* • ***Singapore:*** *Kangdang Kerbau Hospital, Tan Tock Seng Hospital* • ***Slovakia:*** *Bratislava* • ***South Korea:*** *Woo Jung Hospital, Bun Dang Hospital, Nam Won, C.B. National University* • ***Spain:*** *Hospital Marbella* • ***South Africa:*** *New Durban Academic Hospital* • ***Switzerland:*** *Sion, Stade* • ***Taiwan:*** *Rei Ai Hospital, Taipei Medical University Hospital, Chang Gung Hospital* • ***Thailand:*** *St. Louis Hospital Bangkok* • ***Turkey:*** *Turgut Özal Tip Merkezi* • ***USA:*** *Hopkins County Medical Center Sulther Springs /TX, St. Anthony Hospital Oklahoma City, Fairview Southdale Hospital /MN, St. John's Queens Hospital, Wycoff Height's Medical Center New York*

Ing. Sumetzberger GMBH
A-1110 Vienna, Austria, Leberstr. 108, Tel. ++43/1/740 35 0, Fax ++43/1/740 35 300
e-mail: pt.sales@sumetzberger.at, internet: www.sumetzberger.at

... plus more than 46 dealerships worldwide.

Sumetzberger®

Produktion: Kronsteiner, 07/2008