

Technical Data

| | | |
|---------------------|-----------------------|---------|
| Tube Size | NB | 80 |
| Bend radius | Min. mm | 1350 |
| Insp.joint interval | Mts | 24-30 |
| Carrier diameter | mm | 76 |
| Carrier length | mm | 150-200 |
| Carrier speed | Mts./Sec. | 8-10 |
| Max.sample size | ΦX L mm | Φ40X80 |
| Max. sample weight | gm | 800 |
| Air pressure | Kg/Cm ² | 5 |
| Air consumption | N Mt ³ /Hr | 215 |
| Power supply | Single Ph. | 220V AC |

Customer Details Required

| | |
|-------------------------------------|---------|
| Over all length | Meters |
| Number of 90° bends. | Nos. |
| Number of 45° bends | Nos. |
| Max. elevation of tubes | Meters |
| No. of transfers per hour | Nos./hr |
| Sample size | ΦXL |
| Sample weight | gm |
| Carriers required | Nos. |
| No. of inspection joints | Nos. |
| Despatch cabin required | Yes/No |
| Shop layout drawing with dimensions | |

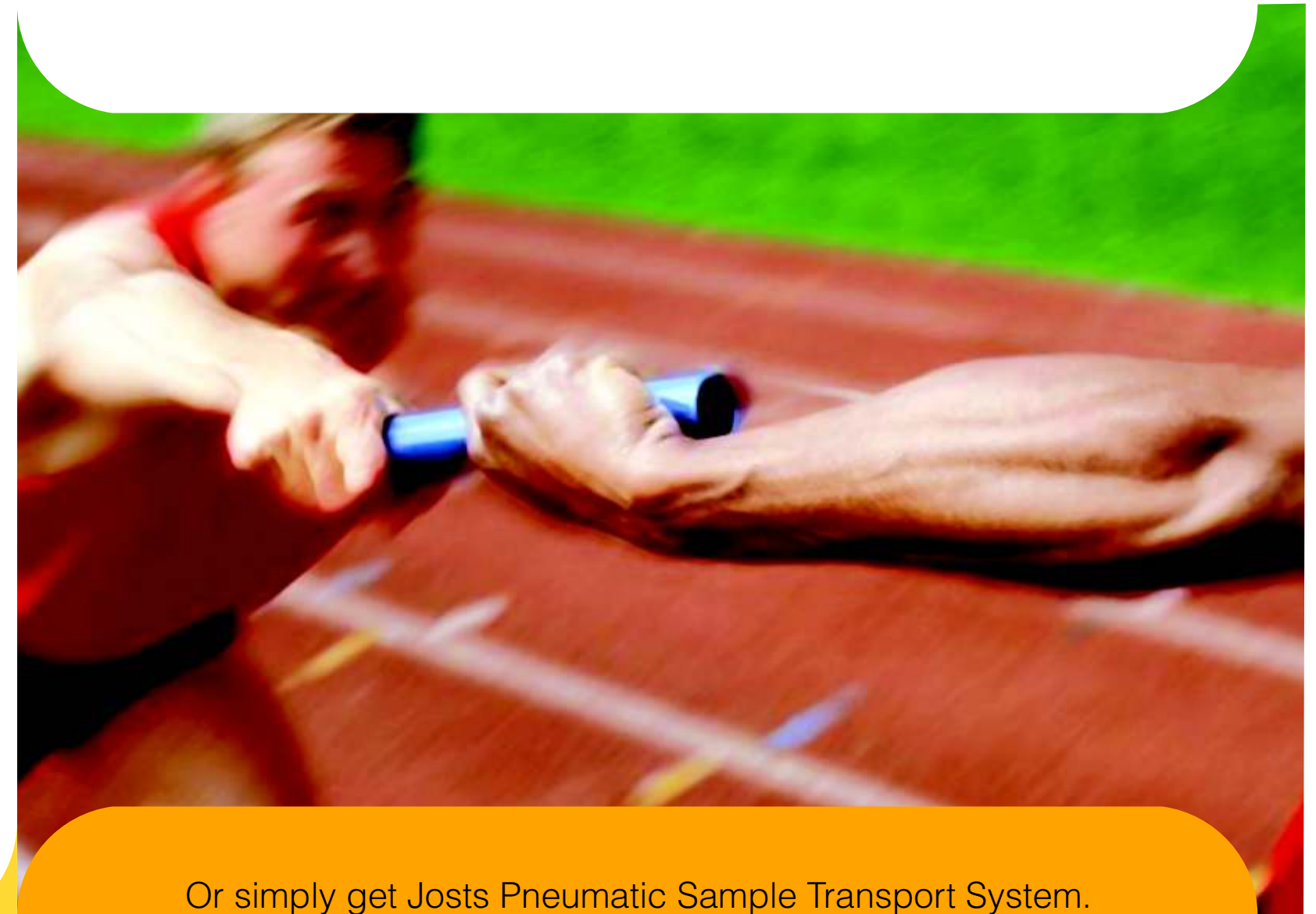
Josts engineers can visit and discuss with the users to understand their exact requirements, conduct site survey and offer proper guidance for route determination.

Other Applications

- Metallurgical industry (Aluminium)- Transport of hot samples, powders to laboratory in large plants.
- Cement plants- Transfer of cement samples to testing laboratory in large cement plants.
- Pharmaceuticals- Transfer of sterile samples to laboratories.
- Hospital- Transfer of medial/pathology samples, emergency samples, reports in large hospitals.
- Retail- Transfer of cash from remote collection points to secured centralised locations for processing.
- Warehouses- Sending paperwork (delivery dockets, receipts) to office from stores for billing.
- Airports maintenance /workshops- Spare parts transfer from stores to shop.



Either have athletes to transmit samples & documents in time...



Or simply get Josts Pneumatic Sample Transport System.



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Jost's Engineering Company Limited

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Even in this era of super fast electronic communication, there are many areas where instantaneous physical movement of test samples, documents, etc. over long distances are necessary. For instance, in large steel plants and foundries where tests of samples have to be taken at frequent intervals, time is of crucial importance. If the furnace locations are quite far from the spectroscopic laboratory, dependence on errand running for samples and reports not only wastes time but is also impractical as it defeats the very purpose of having the sample tested at short intervals.

Josts' Pneumatic sample transport system (PSTS) is an ideal solution to such a problem. It is designed to minimise transmission time by fast despatch and is perfectly suited for handling solid, powder, granules or flake samples. Josts is a pioneer in India for design,

manufacturing and supply of such systems and Josts' systems are already in operation at most of the steel plants and other large industries. Josts' systems, which were popularly known as 'Kerry Josts Systems' are now being manufactured and supplied from their Thane facility.

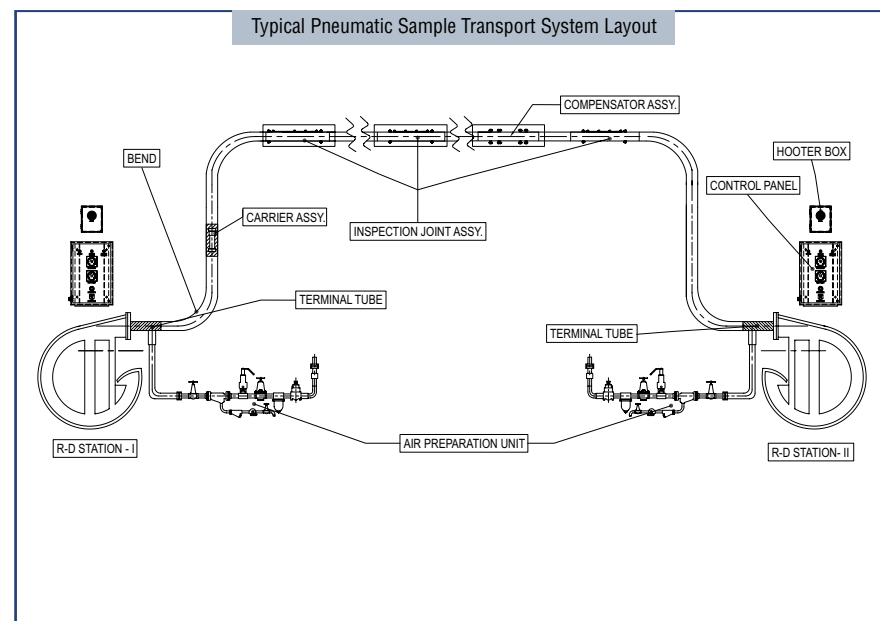
Josts PSTS can also be used for transportation of test samples in other industries like aluminium, cement, etc. Establishment like large hospitals, hotels, banks, offices, airports etc. can also get benefit from these systems for frequent, direct and rapid movement of documents and small items from one department to another and at different floor levels. Josts PSTS saves time and makes document handling automatic.

Presenting the Josts Pneumatic Sample Transport System (PSTS 80)

- Designed to minimise transportation time as it takes only about a minute to transport the samples to 600 meters.
- Ideally suited for handling solid, liquid, powder, granules or flake samples.
- Economical, efficient, reliable, safe and saves labor.
- Can be used for direct and rapid movement of samples and documents from one department to another located at different buildings and/or at different floor levels.
- Can be used in metallurgical industry, pharmaceutical units hospitals, hotels, banks, offices, airports, warehouses, etc.

Main Features

- Single two way pneumatic tube transport carriers in both directions.
- No limitations on the length of the systems.
- Special chemically treated and weather protected pneumatic tubes for long life.
- Compensator assemblies to take care of thermal expansions for straight lengths over 200mm.
- Safety interlocks against double charging, cross charging and intentional or accidental door opening.
- Safety interlocks to ensure that the system is re-set only when carrier is removed at destination end.
- Light weight carriers with special long life easily replaceable buffers.
- Visual and audio indication while carrier in transit and also when carrier reaches destination.
- Air preparation assemblies at each end with pressure regulators and safety valve for clean dry air supply.
- Inspection joints at regular intervals to retrieve carriers in case of emergencies.
- Optional despatch cabin with ventilation and illumination for housing the receiving and despatch station.



The System consists of:

- Pneumatic conveying tubes
- Inspection box assemblies
- Combined receiving and despatch station
- Control panel
- Air preparation system
- Sample carriers
- Compensator assembly
- Inspection-cum-clearing cane

Quality Delivered

Josts has manufactured and supplied over 100 systems with combined length of over 50 Kms all over the country to all major steel plants. The components of PSTS are manufactured from carefully selected materials that are subjected to rigorous quality checking. The manufacturing process is guided by a well laid out 'Quality Assurance Plan' and the final components are subjected both individual and in combinational checking.

Erection and Commissioning: This is a highly specialised work and Josts has trained engineers for this purpose. The work involves careful alignment and welding of tubes and bends at different height levels ensuring constant and smooth internal diameter through out the conveying route, to facilitate high speed travel of carriers. This requires regular and continuous checking. The various other components also need to be carefully installed and integrated for smooth functioning of the system.

Testing of PSTS

Besides well laid out testing procedures of various components at the time of manufacture, Josts also follows a series well defined testing procedure at site. Jost's engineers will carry out static and dynamic functional testing followed by operational testing, before offering the system to the customer for performance test.

