

VAHINY

Pneumatic Tube System (PTS)

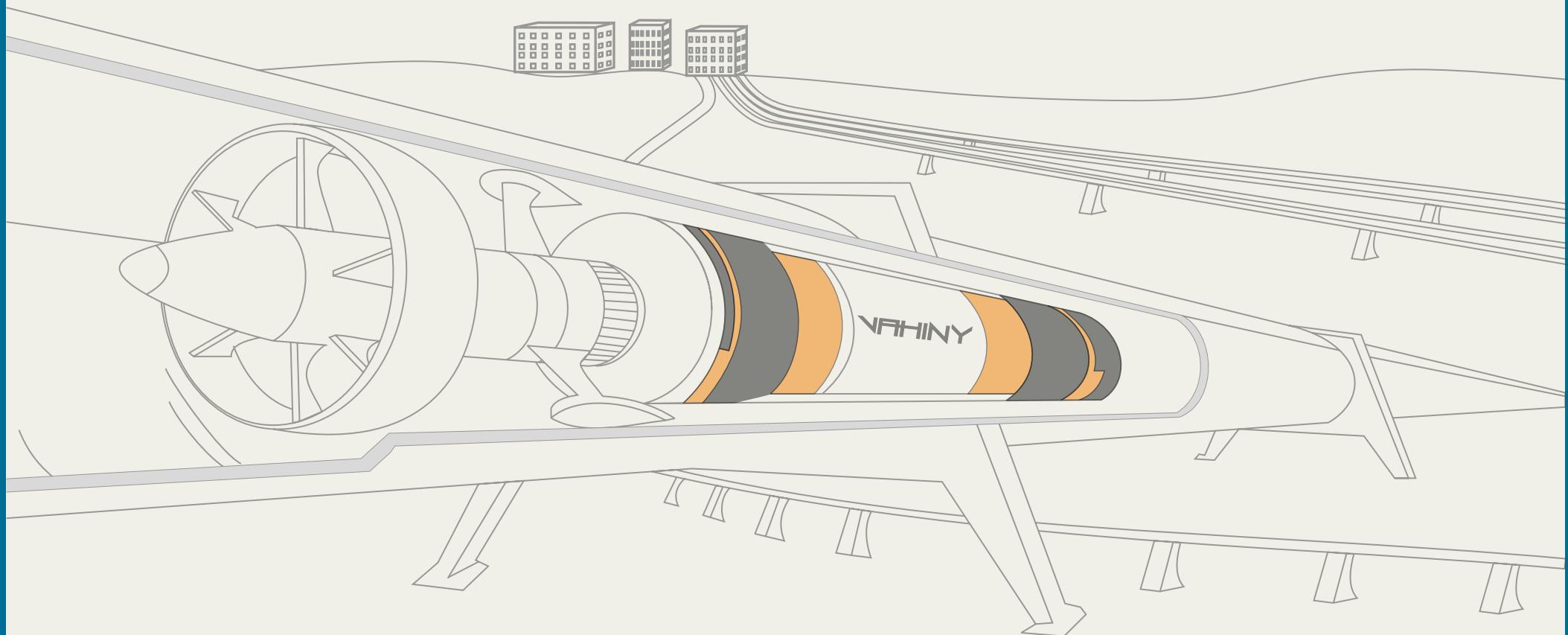




Pneumatic Tube System (PTS)

Towards an efficient future

VAHINY is a registered trademark own by Homebrew Automation Solution. We are modern industrial technology provider that specializes in providing a Pneumatic Transport System to a diverse range of industrial units. Our company was established in 2018, with the aim of resolving intra-industrial transport problems by modernizing and making operations more quick, efficient and reliable.



WHY A PNEUMATIC TUBE SYSTEM?

Optimizes internal logistics without worries...

Why Pneumatic Tube System?

The pneumatic tube system solves the problem of internal movement, with the displacement speed of 5-8 m/s. Pneumatic tube system saves time, energy and allows the staff to concentrate on more important tasks.

When is the right time to decide to install a pneumatic tube system?

Vahiny supplies pneumatic tube systems for companies of all sizes, from 2 point systems to multi zone systems. You can perform installation both in already existing buildings and under construction ones.

What can be transported with the pneumatic tube system?

It carries almost anything from samples weighing 1gm to 3kg. From articles with a maximum diameter of 110 mm, having maximum length of 300 mm, In these categories, one can find a large amount of transportable things such as documents, medicines, blood pouches, blood samples, urine samples. We can carry most of your items.

Where to install a pneumatic tube system?

Virtually everywhere, There are systems developed horizontally and other vertically and not always in the same building. There are pneumatic tube systems that connect buildings that are far from one another.



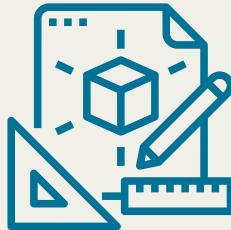
Our Services:

Vahiny as turnkey PTS service provider.

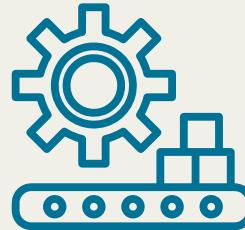
Turn-key we care for...



Planning



Designing



Manufacturing



Supply



Installation



Testing



Commissioning



Training



Maintenance

With

- Improves hygiene standards
- Highly applicable when work flow distributions is uneven.
- Fast turn around time
- Improves productivity
- Reduce operating coast
- 24x7 Availability
- Fast, Safe and Secure



Why Vahiny?

- **Made in India Made For the World :** World's first and one and only IP based Pneumatic Transport System.
- **Data Speed :** All Vahiny Components are IP based and uses advanced TCP/IP protocol and end to end secure communication with server.
- **Easy Cabling :** Simply provide Power socket near by component with 230V,5A and LAN port.
- **Step Towards Wireless :** No more power pack and special control cable is required for vahiny, Easy to Install.
- **Perfection :** All vahiny components are using servo motor for accurate positioning and non-contact type photo electric sensors.
- **Vocal for Local :** Supports all national and international languages on user interface and control software.
- **Customization :** Shipment speed and weight carrying capacity
- **Right To Repair :** Every electronics and mechanical parts are designed to repair, No need to replace entire equipment.
- **Data Security :** No third party software(anydesk, teamviewer, etc) to protect data and end to end encrypted software tools.
- **Real-Time Visualization :** Live Location tracking of Carrier and status of all component monitoring
- **Analysis :** Statistics of daily usage in printable format
- **Standardized :** IS 4985 standard U-PVC pipe
- **Modularity :** Barcode or Fingerprint scan capability
- **Stay Updated :** All software and firmware can be updated on the fly remotely.
- **Feel the Touch :** Every stations are provided with 7 inch capacitive touch screen.
- **No Impact :** Soft receiving by station with air-cushion.
- **Ease of Usage :** easy to manage empty Carrier and Home destination for carrier.
- **Integration :** Connect with your BMS or HMIS or fire alarm system.
- **Authorization :** Access Control with Pin Code Lock
- **Digitalize Service :** Track the maintenance visit and parts replacement and service in digital format.
- **Management :** user and rights management,
- **Feature Request :** Customized software features available on request



Carriers(Applicable for OD110 & OD160)



- Wide end velcro rings for smooth travel
- Transparent body
- Designed under Right to Repair
- Easy to handle, Fall proof
- Spring loaded flap and swivel Cap
- Robust and light weight
- Easy to replace end Velcro rings
- Available in customized color on request
- RFID capability
- Carrier accessories
 - Soft Cloth Pouch
 - Foam Inserts

Our Products

Blower



Diverter



- Unidirectional Motor Rotation
- Wide range of power capability(2.3Kw to 6.3Kw)
- Suction and Pressure range 200mbar – 350mbar
- Customization of speed for all sending transaction
- Blower accessories
 - Air Diverter to Change Air Flow on the Fly
 - Variable Frequency Drive
 - Mounting Accessories
 - Silencer, Air Filter, Etc

- State of art servo motors for accurate hole position
- Photo-electric sensor to check carrier passed status
- possible in 2-way, 3-way and 4-way variants
- It can be ceiling/wall mount or ceiling hanging
- It be used to Make Zone Exchanger

Stations (Applicable for OD110 & OD160)

Indus Station (End Type Station)



- Load Carrier on bottom area of station
- Only Top Pipe Connection
- Send and Receive Capability
- Carrier in Queue
- Install at Bottom Plate 1.0m – 1.1m from finished floor

Rewa (Pass-Through Type Station)



- Load Carrier on top part of station
- Top and Bottom Bi-direction connection
- Carrier in Queuing is possible
- Top Plate 1.5m – 1.6m from finished floor

Nile (Pass-Through Type Station)

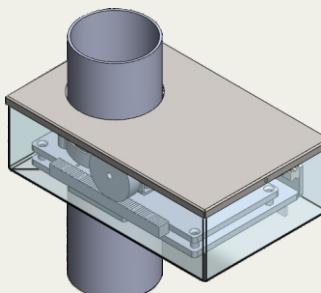


- Load Carrier on bottom area of station
- Top and Bottom Bi-direction connection
- Only applicable when blower connected on Top Pipe
- Install at Bottom Plate 1.0m – 1.1m from finished floor

Moselle (Multi Send Station)

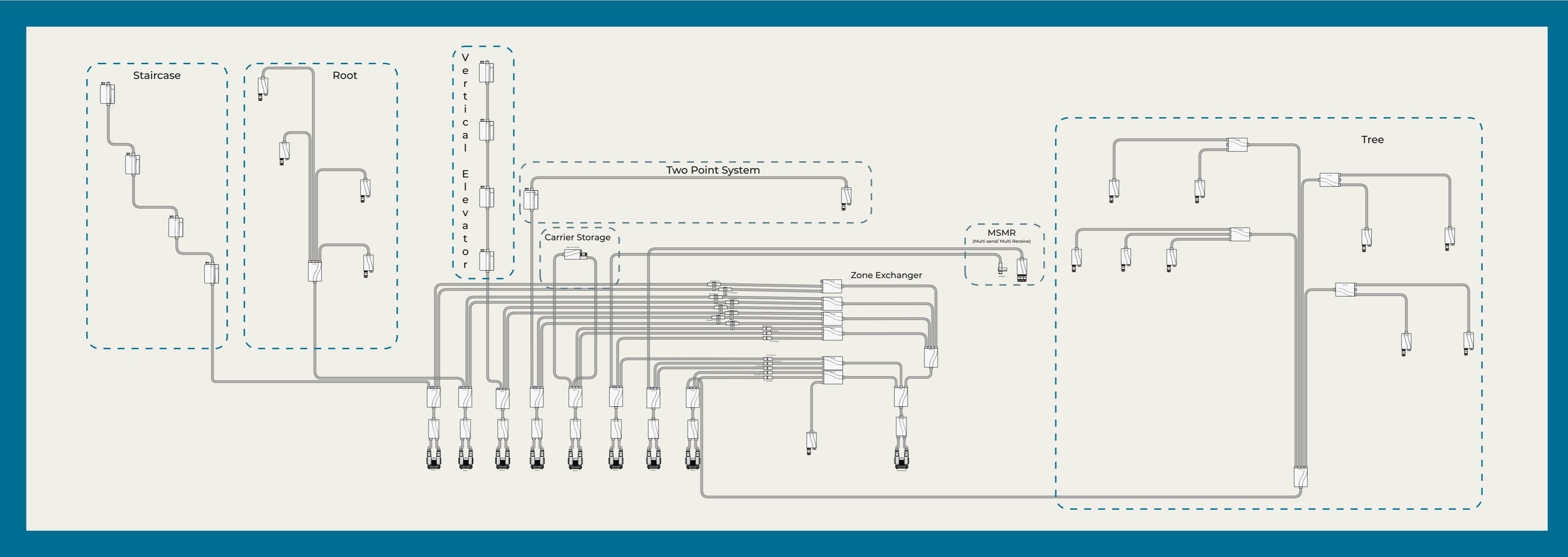


- Only Send Operation
- Multiple destination screen
- Works for high sending load



Tigris (Lab Station)

- Only Receive Operation
- It can receive train of carrier
- Slider lock to receive smoothly
- Recommended for high receiving load
- Rail or receiving table (Optional)



Station accessories



Carrier



Pouch



Beeper with visual
and sound effect



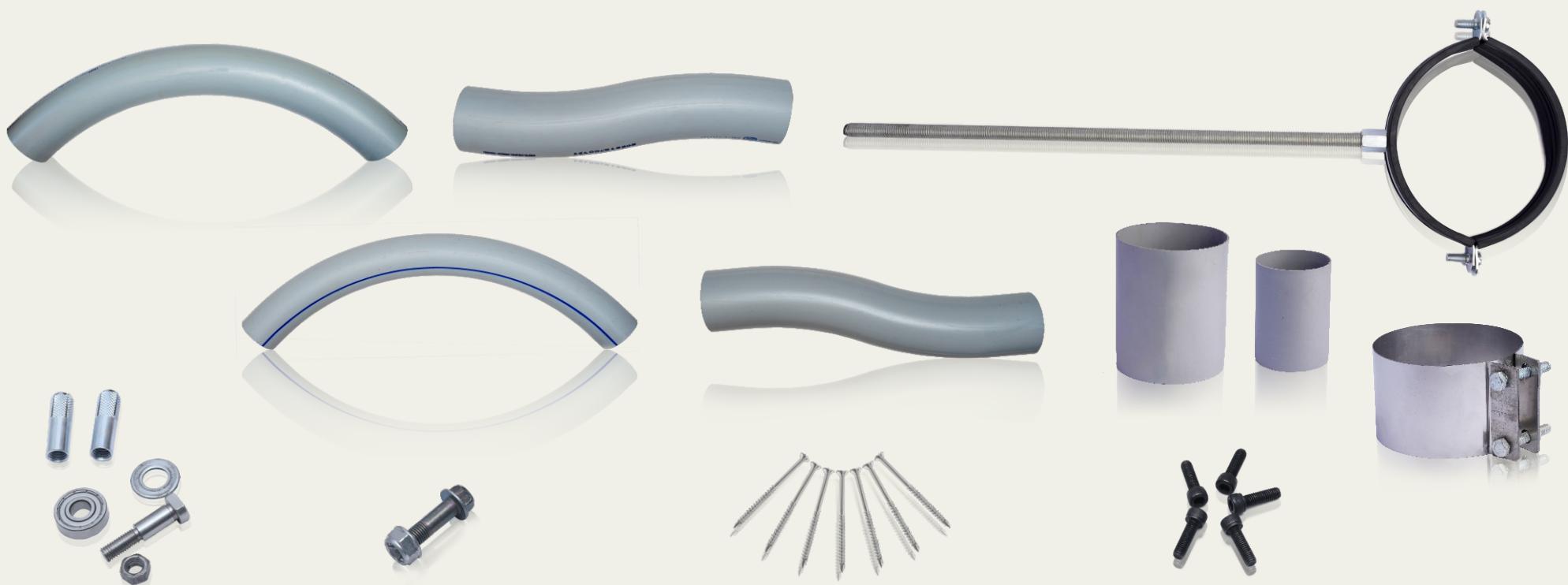
Basket



Carrier Rack

Tubing Assasories

Large Radius Band | S Tube | Sleeve | Metal Clamp | Rubber Line Clamp | Miscellaneous



Available Diameter of System

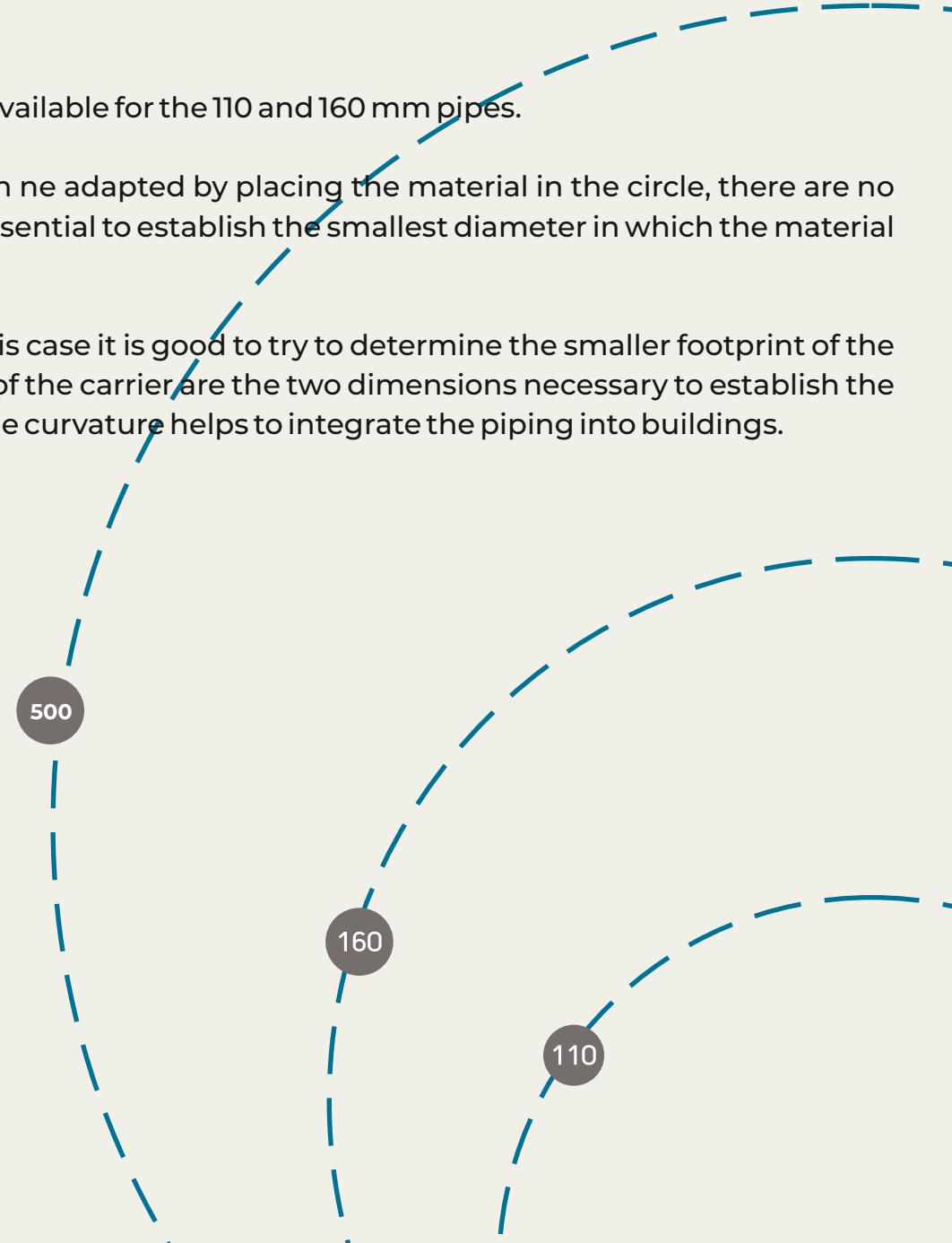
The dimensions shown correspond to the internal space available for the 110 and 160 mm pipes.

Determine the smaller diameter in which your article can be adapted by placing the material in the circle, there are no consequences if placed horizontally or vertically. This is essential to establish the smallest diameter in which the material can be contained.

The probable carrier length is 330 and 400 mm. Also in this case it is good to try to determine the smaller footprint of the piece in length. The diameter of the tube and the length of the carrier are the two dimensions necessary to establish the smaller radius of curvature. Using a minimum radius of the curvature helps to integrate the piping into buildings.

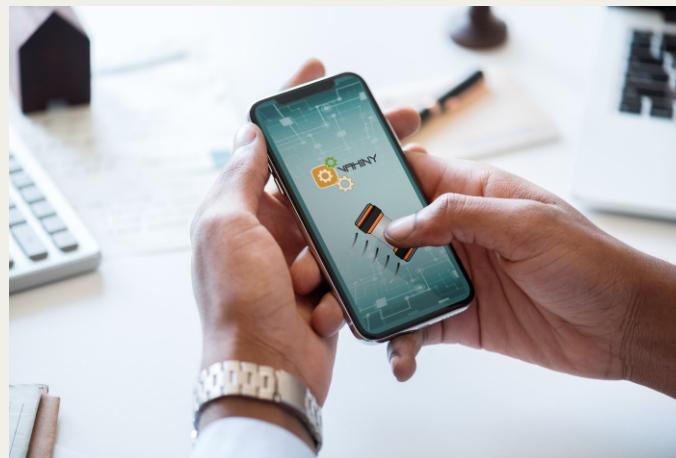


Pipe	Carrier	Length	Radius
110 mm	84 mm	240 mm	650 mm
160 mm	114 mm	330 mm	800 mm
500 mm	380 mm	1000 mm	2950 mm



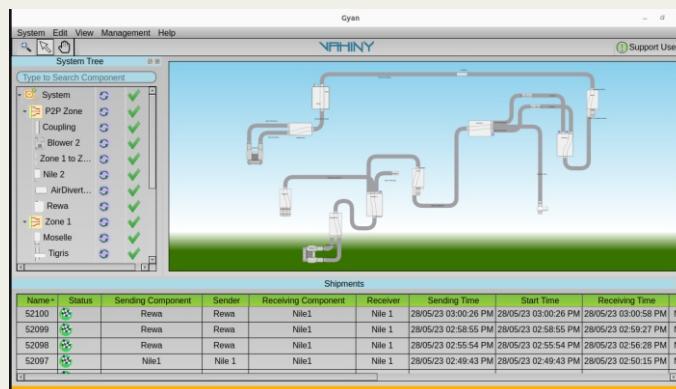
Mobile Application

- History of shipment send/received by user
- Acknowledgement of shipment to notify the sender
- User authenticity
- User to receive secure shipment



GYAN - Configuration & Visualization

- Visualization of complete topology
- Works on Linux based OS
- (No paid windows license required)
- Provides real time status of the all components
- Real time tracking carrier movement
- User management, Module and device management
- Easy to install new software updates,
- One click to backup and restore data
- Local Language support
- Easy to configure mail, push notification



SHISHYA - Touch Screen Interface

- Local service for device and sensors
- Password protection for corridor station
- Local language support
- History of shipment sent/received at station
- Speed dial, search into addressbook
- Easy to push update
- Seamless and simple User Interface
- Customizable screen saver

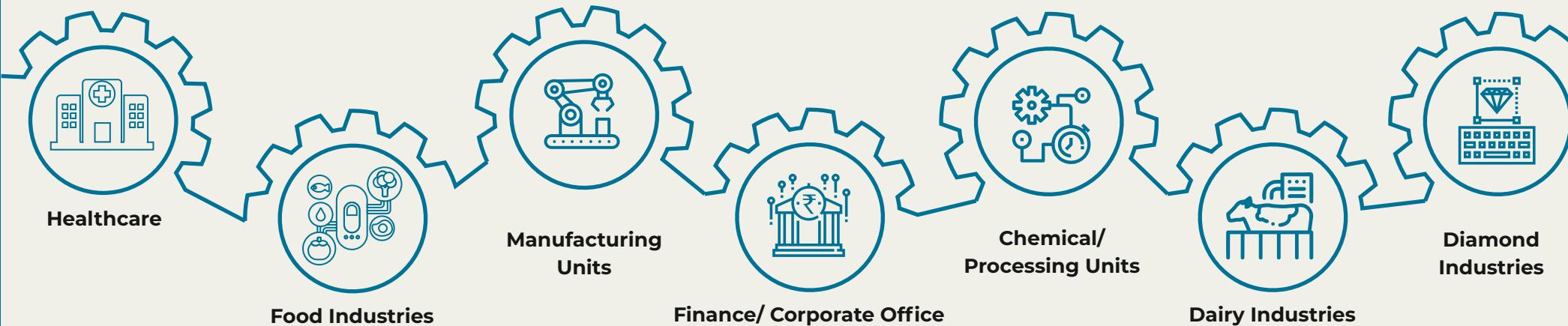


WHAT VAHINY CAN TRANSFER?

- ◎ Medical Records
- ◎ Administrative and Billing Documents
- ◎ X-rays
- ◎ Medications
- ◎ Lab specimens
- ◎ Blood
- ◎ Plasma
- ◎ Injection vials
- ◎ Instruments
- ◎ Urine samples
- ◎ Master batch
- ◎ Pigment
- ◎ Food sample



WHAT VAHINY CAN TRANSFER?



BENEFIT OF PNEUMATIC TUBE SYSTEM

- Reduces **manpower** cost by **5-10 %.**
- Help reduce **electricity cost** since lift usages is limited.
- Improves Hygiene standard
- **Reduce Turn Around Time** of diagnostic lab test.
- Patients satisfaction by **shorter waiting time** and **less crowding.**
- **Better utilization of lab equipments** with continuous workflow.
- **Fast and accurate** delivery of **test results, reports, samples** etc.
- **Safe management** of contaminated specimens or samples.
- Prevention of cross contamination, **safe , clean** and **hygiene.**
- **Quick connectivity** from patients areas to **lab, pharmacy, medical record, X-ray**, improved patient service.
- Better facilities management; **reduced cost of operation.**
- **24 Hours / 7 days operation & spontaneous transport,** only possible with pneumatic transport system.
- Improve Transparency
- Risk Mitigation by removing hazardous process out side the critical area.



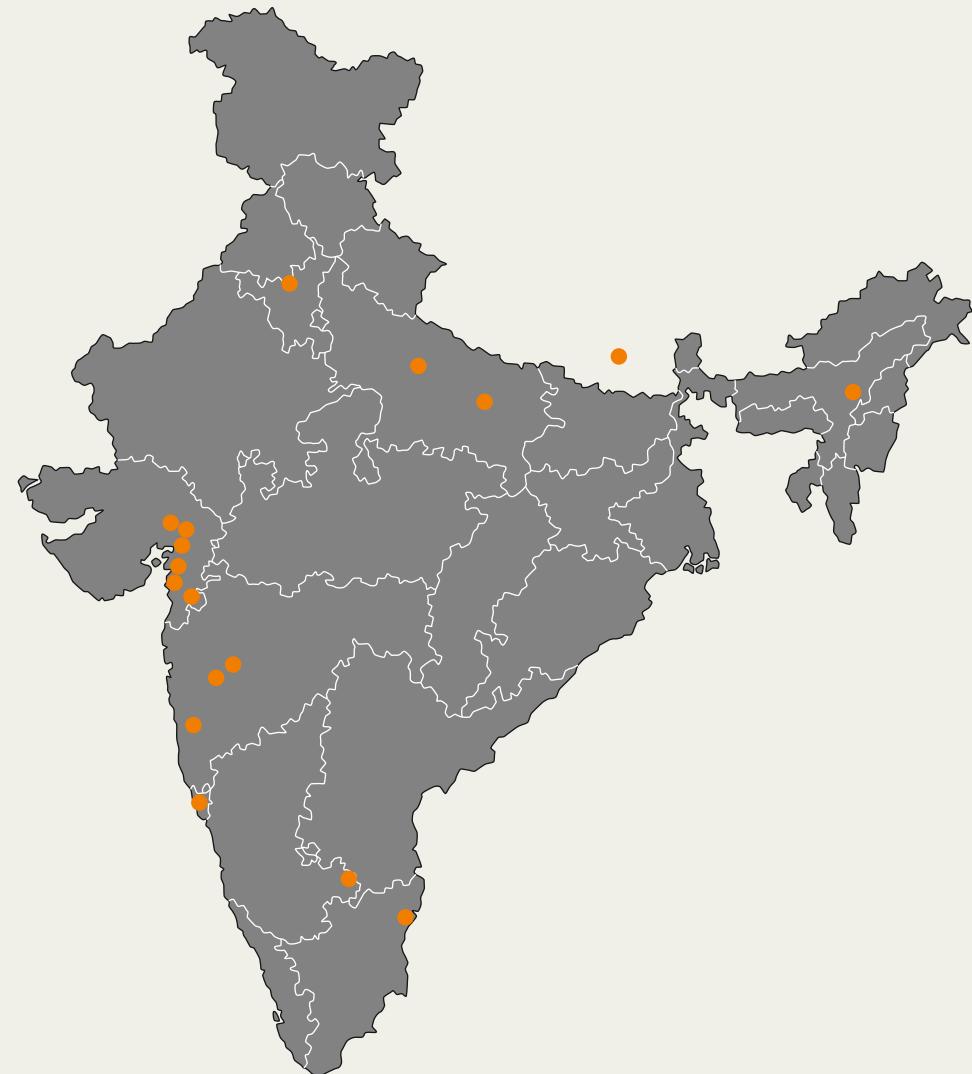
OUR ESTEEMED CLIENTS



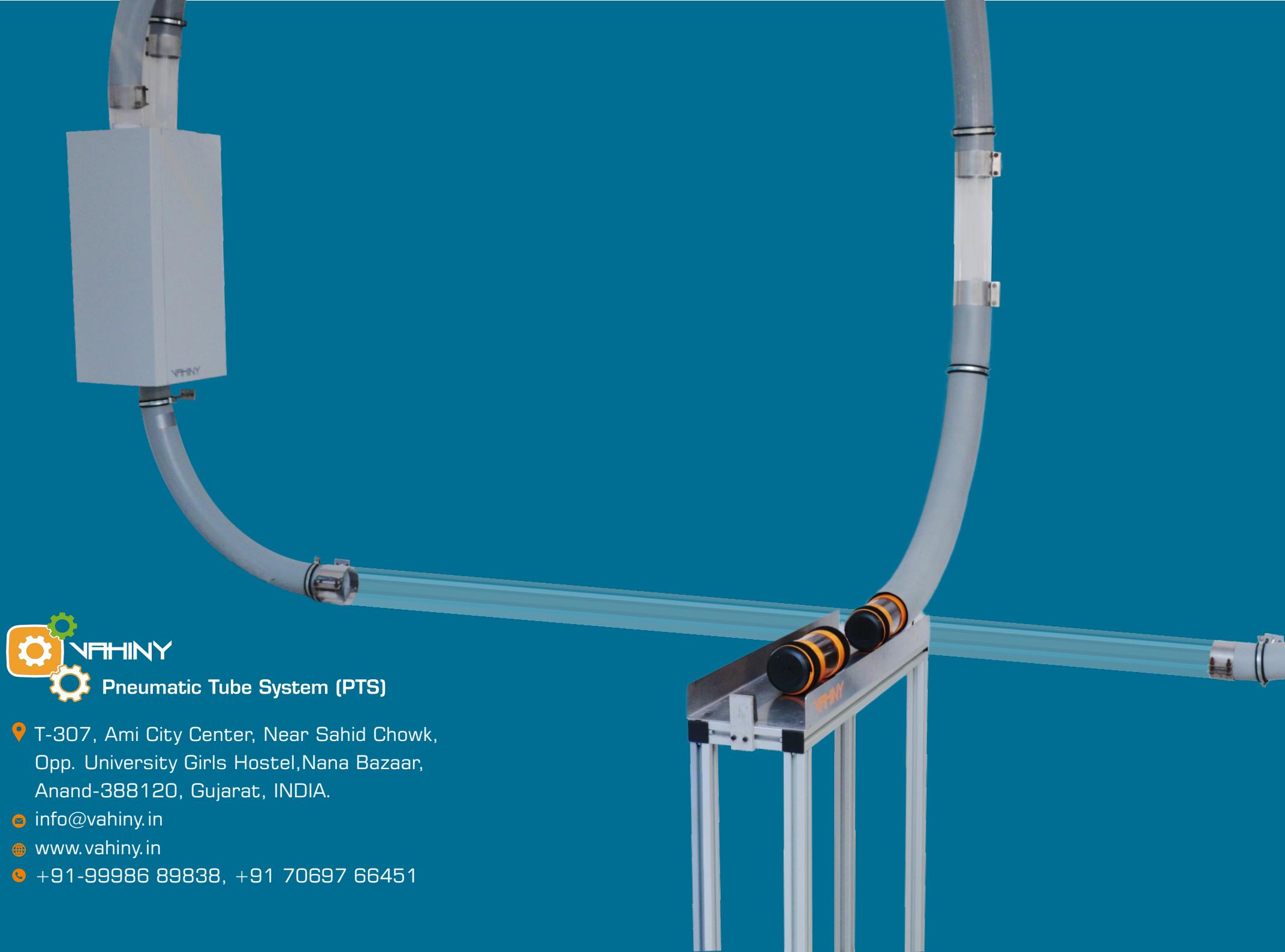
SIDS HOSPITAL & RESEARCH CENTRE
A Multi Super-Speciality Hospital



National Healthcare



And many more ongoing project ...



VAHINY

Pneumatic Tube System (PTS)

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