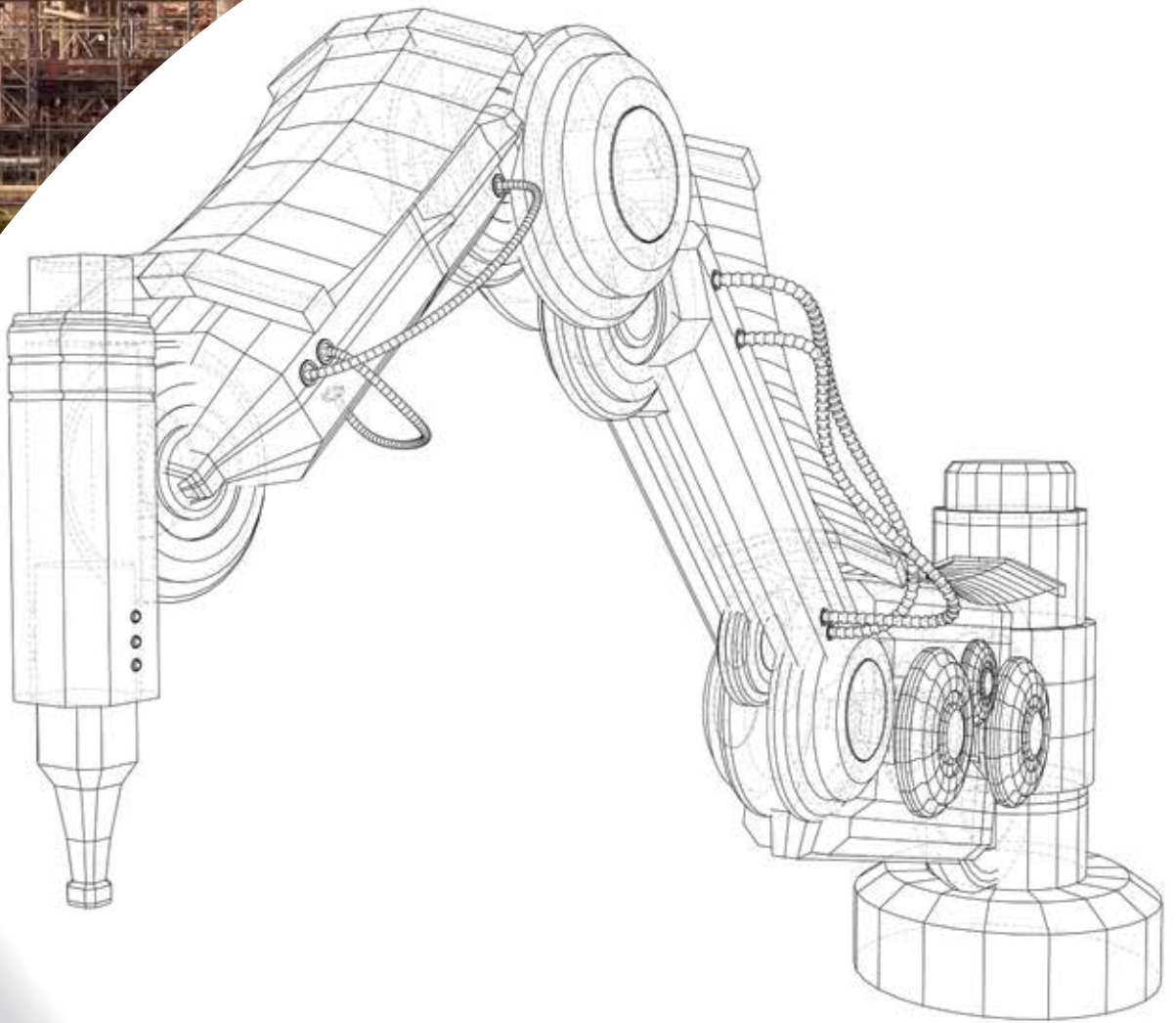


CE



9001 : 2015



Helium

Sf<sub>6</sub>

Cl

r134a

Nitrogen

**NXTEK**

SOLUTIONS WITH THE POWER OF QUALITY

**ABOUT US**

**NxTek** was formed with an intention of quality service delivery to the customers looking for vacuum, leak detection solutions and special purpose machines.

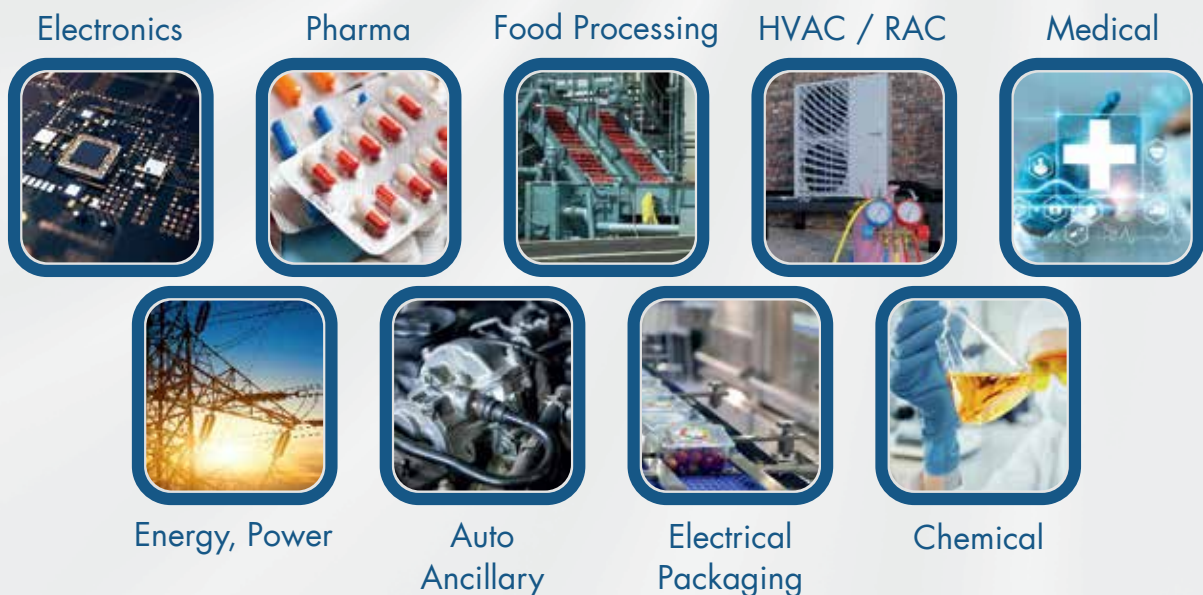
Since its inception Nxtek has accumulated unmatched experience with over **25+** years with number of satisfied customers.

NxTek believes that being committed to what we promise to deliver to our customers should be our top most priority without losing on quality and efficiency, so we always try to deliver what we promise to our customers on time with best in class quality and efficiency.

**INFRASTRUCTURE**



**OUR PRODUCTS APPLICATIONS**



**Vacuum Pumps & Solutions**

- Single/Double Stage Rotary Vane Pump
- Rotary Piston Vacuum Pump
- Roots/Booster Pump
- Dry Screw Vacuum Pump
- Liquid Ring Vacuum Pump
- Customised Vacuum System
- Centralised Vacuum System



- Helium/Hydrogen Leak Detector
- Helium/ Hydrogen Leak Test System
- Helium Recovery Unit
- Water Leak Test System
- Air Leak Tester
- Ultrasonic Leak Detector
- Refrigerant/ Combustible Gas leak Detector

**Helium Leak Detection Solution**

**Process Equipments**

- Shell and Tube Heat Exchangers
- U-Type Heat Exchangers
- Condensers
- Reactors
- Inter Coolers/ Silencers
- Pressure Vessels
- Skids



- Pick & Place Mechanism
- Roller Conveyor
- Ball Top Conveyor
- Assembly Line Automation
- Turn Table
- Chain Conveyor

**Material Movement Solution**

**Service, Spares & Accessories**

- Vacuum Pump Spares & Services
- Vacuum Gauges and Controllers
- Helium Standard Leak
- Calibration Services
- Vacuum Components
- Vacuum Oils and Grease
- Leak Detector Service/Rental/Jobwork



## Leak Test Solution

Nxtek designs and manufactures Helium, H2 tracer gas leak testing machines fully automated, semi-automatic or manual test benches. We are one of the most innovative companies devoted solely to the research, design, manufacture, distribution, and service of leak detectors, gas handling equipment, and complete leak detection solutions. NYPL's staff of engineers, system design personnel and applications specialists constitute the most experienced body of leak detection experts in the field.



### Chamber

Nxtek's chambers are made in Stainless Steel and designed in a cubic shape to minimize the foot print and the dead volume. One or two sliding doors, either manual or automatic are provided. The chamber has room for 1, 2 or 3 testing products that can be processed in parallel or individually.



### Helium Leak Detector

Nxtek's works closely with the main suppliers of Helium leak detectors, so we select the detector according to the end user preferences. For a fast, automatic, auto-test of the system a calibrated leak is installed on the vacuum pipe. External calibrated leaks are located inside the chamber for a precise calibration of the whole system.



### Vacuum Pumps & Connections

The vacuum pumps are required for chamber's evacuation as well as for testing products evacuation. Brand names are selected according to client's preferences. Frequency converters, automatic gas ballasts, water/ air cooled pumps, enhanced oil drainage, temperature monitor are some common options in our pump sets



### Electrical Controls

Our machines are controlled by state of the art PLC especially configured to comply with customer's process requirements. The PLC allows automatic operation including visual and audio signs, alarms, emergency buttons and automatic data storage. It also allows manual control of the system and modification of process parameters and recipes through the touch screen and SCADA interface



**Leak Rate:  $1 \times 10^{-3}$  mbarL/Sec to  $1 \times 10^{-8}$  mbarL/Sec**  
**Chamber Size: 50 litres to 6000 litres at standard volume**  
**Chamber Door Movement: Automated Or Manual**  
**Types of Test: Coarse Test/ Pressure Decay/ Proof Test/ Helium Coarse/ Helium fine test/ SF6 Gas filling**

**Helium Recovery**  
**Integrated Material Movement**  
**Customised Helium / Nitrogen ratio**  
**Helium Recovery more than 95% achieved**  
**Poka Yoke / Marking Mechanism**  
**Pressure Range: 0.3 bar to 350 bar**

**NXTEK's** wide range of leak testing methods and extensive background and experience in leak testing technology meets the needs of numerous industries. From storage tanks and containers to fire suppression equipment, our expertise and broad range of custom leak testing systems provides you with the solution you need to meet your exacting requirements. Nxttek provides solution for various industry.

### Electrical



### Automobile



### HVAC/RAC



### MEDICAL/ PHARMA

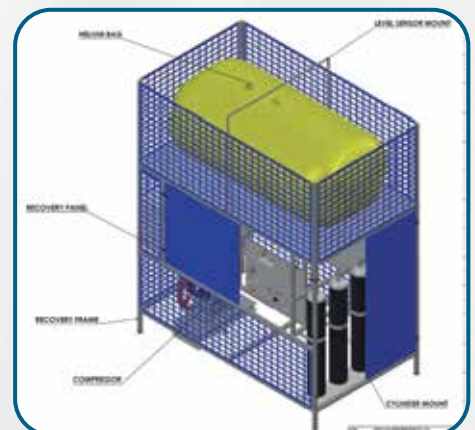
### Others



## HELIUM RECOVERY

Although Helium is a noble gas, non contaminant for the atmosphere, it may be worth to recover it for economic reasons. saving you up to 98% of your helium cost.

- Operate under higher pressures as well as low pressures
- Fully Automated & Integrated for 24 hours Operation
- Recovery upto 1000 litre Volume Product
- Pressure upto 350 bar
- Helium Filtration Arrangement
- Settable Parameters for Convenience
- Continuous Helium Concentration Monitor
- Helium Recovery for Mixture with Nitrogen
- Can be Integrate with Existing Helium Setup
- Plug & Play System



## VACUUM SOLUTIONS

### DRYING SOLVENT RECOVERY

#### NXTEK - Oil Sealed Rotary Vane Pumping System

##### Key Features

- Vacuum - upto 0.07 torr
- High Efficiency
- Air Cooled, Utility Free
- Low Noise Level & Vibration
- Low Maintenance

##### System Specs

- Vacuum Pump, Motor with Junction Box

##### Default Facility

- Inlet Filter - 0.1 Micron
- Automatic Gas Ballast
- Isolation Valve
- Control Panel

##### Optional Accessories

- Oil Filtration Machine
- Condenser with Auto Drain Facility
- Automatic Vacuum Control
- Intermediate Flushing



### DISTILLATION

#### NXTEK - Dry Screw Vacuum Pumping System

##### Key Features

- Customised MOC as per process
- Vacuum upto 0.05 torr
- Low Noise Level & Vibration
- Variable Pitch Screw with Mechanical Seal Design
- High Efficiency
- Oil Free Gas Path
- Long Service Intervals

##### System Specs

- Vacuum Pump, Motor with Junction Box

##### Default Facility

- Control Panel
- Actuated Isolation Valve
- Solvent Flushing
- Temperature and Pressure Sensor
- N<sub>2</sub> Flusing and Purging

##### Optional Accessories

- VFD/ PLC/ PID based Vacuum Control



## VACUUM SOLUTIONS

### EVACUATION / DEGASSING

#### NXTEK - Oil Sealed Rotary Vane Pumping System

##### Key Features

- Vacuum - upto 0.005 torr
- High Efficiency
- Low Noise Level & Vibration
- Low Maintenance
- Simple Construction

##### Default Facility

- Control Panel
- Automatic Gas Ballast
- Inlet Filter - 0.1 micron
- Oil Filtration Machine

##### System Specs

- Vacuum Pump, Motor with Junction Box

##### Functional Facility Option

- PLC/PID based Vacuum Control

##### Optional Accessories

- Condenser with auto drain facility at suction



### CUSTOMISED VACUUM SYSTEM

#### NXTEK - Roots / Rotary Combination Vacuum Pumping System

##### Key Features

- Compact Design
- Fully Automated
- Reliable & Robust Construction
- Inbuilt Utility Arrangement
- Flexi Configured System

##### System Specs

- Vacuum Pump, Mechanical Booster Pump, Differential Pressure Gauge with Junction Box

##### Default Facility

- Control Panel
- Actuated Isolation Valve
- Solvent Flushing
- Temperature and Pressure Sensor
- N<sub>2</sub> Flusing and Purging

##### Optional Accessories

- Automatic Vacuum Control
- Chiller Unit with Tank
- Oil Filtration Machine



**ULTRA HIGH VACUUM CHAMBER**



Nxtek has a accumulative decades of experience in custom metal fabrication. As a leading manufacturer of vacuum chambers and vacuum technology solutions, we engineer standard and Custom Vacuum Chambers that answer each customer's unique and demanding requirements.

Our capabilities for metal forming, large capacity machining, and welding expertise are ideal for manufacturing chambers and related products for vacuum process equipment. Custom options such as additional ports, feedthroughs and integration with vacuum accessories can be quoted upon request.

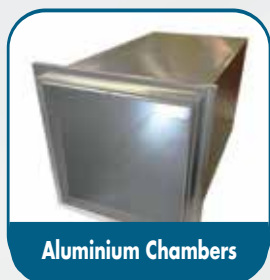
- Ports: 1/8", 1/4", 3/8", 1/2", 3/4", 1" etc. (half couplings or full couplings)
- MOC: Acrylic, Stainless Steel, Mild Steel, Aluminum
- Leak Tightness: 1 \*E-10 pa L/sec
- Type of Mount: Vertical, Horizontal, Cubical

**SIZE**

Our in-house sheet metal fabrication and machining allow us to routinely build chambers to 2500 mm x 1800mm cross sections (rectangular), 2500 mm diameters \* 4000 mm(cylindrical), or even larger.Nxtek Offers Finish with Mechanical Grinding, Polishing, Chemical Passivation and Electropolish as per application requirement.

**DESIGN**

We provide modeling and analysis to be certain sufficient mechanical support is included in the design and are able to meet and certify to ASME, NQA-1 and other codes. Most systems involve numerous flanges and ports, standard and custom. We design and manufacture chamber as per client's space utilization and application optimization.





## PROCESS EQUIPMENTS

Design, Manufacturer & Solution Provider for Static and Dynamic Equipment's for Process Industry.

### DESIGN

With a strong and well-trained Design team, Nxttek offers a range of services from creating designs of standard specifications to customizing unique adaptations for special needs.



Shell n tube Heat exchanger



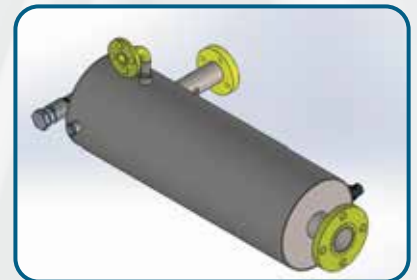
U-Type Heat Exchanger

### Manufacture

Our new plant blends the use of world class equipment of highest quality with the technical expertise and skills of our production teams to craft machines that meet international standards.



Skid



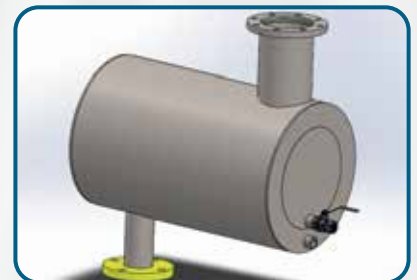
Silencer

### Installation

We also undertake to set up at your site, after our qualified and highly experienced team of site engineers conduct complete process checks.



Reactors



Inter Coolers

### Automation

For companies growing exponentially, automation becomes a basic necessity. Typically includes electrical panels programmable logic controllers (PLC), HMI, VFD, and related control equipment from Siemens, Mitsubishi, Allen Bradley.



Pressure Vessels



Storage Tanks

## NXTEK SERVICES

Nxtek is Industrial vacuum pump specialists, offering a comprehensive, high quality service for industrial vacuum pumps and Helium Leak Detector. Our professionalism and years of expertise ensure that your business will continue to run smoothly. We offer a fast, friendly service that is reliable and affordable.



## VACUUM PUMPS REPAIR & SERVICE

Timely maintenance of your vacuum pump assets is essential to ensure optimum production efficiency with minimal downtime. Nxtek offer an outstanding range of vacuum pump servicing capabilities. State of the art equipment also allows our highly skilled engineers to service both oil lubricated vacuum pumps and dry vacuum pumps, restoring the services or repaired vacuum pump back to a high OEM standard.

Nxtek are able to help with all OEM pump and can supply quality Spares for Edwards, Leybold, Busch, Alcatel, Becker, Kinney, Mils, Varian, Pfeiffer, Gallileo, many more.

## HELIUM LEAK DETECTION SERVICE

- Helium Leak Detector Rental
- Helium Leak Detection Field Services
- Helium Leak Testing Job work
- Helium Leak Detector Repair

Helium leak detectors are very costly and sophisticated instruments that should be serviced and cleaned on a regular basis to ensure the leak detector is ready when needed.

Inside the helium leak detector is a roughing pump, high vacuum turbo pump, vacuum gauging and a magnetic sector mass spectrometer.

Recommended service for helium leak detectors are Oil Replacement, Preventive maintenance, Turbo Service/exchange, Calibration, etc.



## VACUUM OIL & GREASE

Nxtek supplied vacuum oil is a top quality oil designed for excellent service in vacuum pumps, hydraulic circulating lubricating system, small air compressor and a variety of other application. Vacuum oil supplied by Nxtek has very high degree protection against oxidation, has a high water vapour handling capacity and provide high degree performance in vacuum application.



### ➤ Functions Of Vacuum Oil In Vacuum Pumps

- Sealing
- Lubrication
- Cooling
- Corrosion Protection
- Flushing Contaminants
- Noise Reduction

## VACUUM FITTINGS



1. ISO-K/CF/KF Adaptors & Reducers
2. ISO-K/CF/KF Clamps & Centering "O" Ring
3. Vacuum Bellows & Hoses
4. ISO-K/CF/KF Rubber Compensators
5. ISO-K/CF/KF Flanges & Blinds
6. ISO-K/CF/KF Pipes, Elbows & Tee
7. Customised Fittings

## VACUUM GAUGES & CONTROLLERS

- Pirani Penning Gauges
- Capacitance Manometer Gauges
- Hot Ionization Gauges
- Cold Cathode Gauges
- Vacuum Gauge Controllers



## VACUUM PUMP SPARE PARTS

With years of experience supporting vacuum products. Nxtek now support all elements of vacuum pump spare parts. Nxtek works with customers to stock any specific vacuum pump spare parts that are frequently used Such as



1. Clean and overhaul kits
2. Minor & Major service kits
3. Filters, Gaskets, O-rings and seals
4. Bearing & Couplings, Vanes
5. Rotors, Stators & Shefts

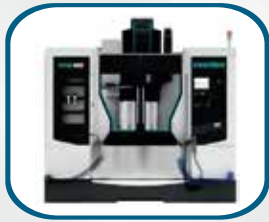
## Precision Machining Components

**Nxtek's endeavor is to serve clients with right quality, on-time delivery and competitive price.**

We value customer focus, continual improvement, and mutually beneficial supplier-customer relationship. The Company is dedicated to fabrication, machining and assembly of heavy and accurate jobs of Power and other heavy engineering sectors in general and yours in particular.

We provide Lathe Machine, Milling Machine, Drilling Machine, Arc Welding Machine, Mig Welding Machine, Tig Welding Machine, Bandsaw Machine, CNC Lathe Machine, VMC Machine and Plasma cutting Machine.

## PRODUCTION



<b>VMC</b>	<b>X - Axis Travel upto 1200MM, Y - Axis Travel upto 800MM, Z - Axis Travel upto 650MM</b>
<b>CNC</b>	<b>Dia- 250MM, Length - 400MM, Spindle RPM- 4000</b>
<b>BANDSAW</b>	<b>Cutting Dia-350MM Max, Flat Cutting Bar- 390MM Max</b>

## QUALITY



Portable Surface Roughness Tester



Portable Ultrasonic Thickness Tester



Portable Hardness Tester



Helium Leak Test



Hydro Test Machine

## SERVICES

- Metal Finishing Services
- Heavy Machining Job Work
- Metal Fabrication
- Jig & Fixtures
- All Types of CNC/VMC precision components
- Plasma Work
- Sheet metal work
- Part Assembly

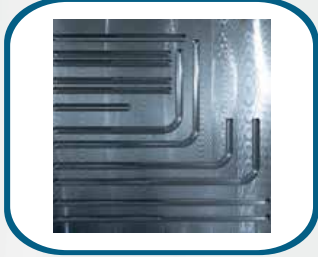
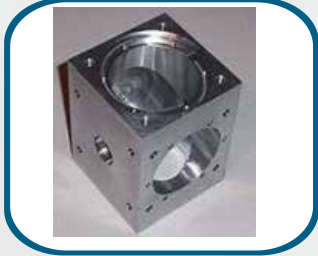
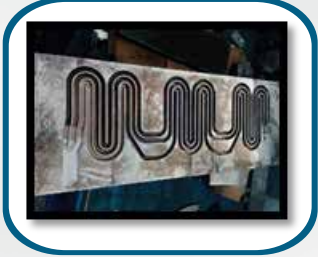
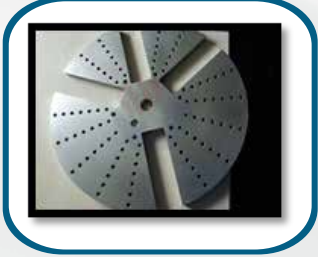
## INDUSTRIES WE SERVE

- Auto Ancillary
- Semiconductor & Electronics
- Electrical
- Special Purpose Machine Manufacturer
- Aerospace
- Pharmaceuticals & Chemicals
- Food Processing

## Precision Machining Parts Design To Delivery

Precision Machining is a manufacturing process where raw materials are shaped into end products like machining parts, with the help of CAD and CAM programs. All types of machining parts are manufacturing. We strive to make job-work creative and state of the art. Our objective is to deliver on time and be quality oriented. We aim at building a strong machining and manufacturing base for serving clients with right quality, timely delivery and competitive price.

At Nxttek, we provide a huge range of materials available depending on your industrial needs. We offer unrivalled quality and choice of materials including metals, exotic metals, engineering plastics as well as thermosetting. The materials that we often deal and perform job work includes, but are not limited to the followings:



TYPE	MATERIAL
Metals	Aluminium Alloy
	Stainless Steel
	Brass, Copper, Bronze
Exotic Metals	Titanium, Carbide, Waspaloy
	Nickel Alloy 718 (Inconel)
	Stainless Steel 17-4
	Monel K500, Carbon Steel
Engineering Plastics	Harden Steel
	PI, Vespel / PAI, Torlon/ PVDF, Kynar
	PTFE, Teflon / POM, Acetal / POMALUX, Conductive Acetel
	PA, Nylon / PMMA, Acrylic/PVC
Thermosetting Plastics	PUR, Polyurethane
	EP, Epoxy
	Bakelite

# Our Clients



▲ OUR OFFICES/ REPRESENTATIVES  
● OUR INSTALLATIONS



**NXTEK YANTRA PRIVATE LIMITED**  
**NXTEK ACCURATE INDIA PVT LTD**

🏠 Plot – 9, Block – 338, Old Survey No – 400/1, Kashipura, Behind POR GIDC, Vadodara - 391243, Gujarat (India)  
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 in NXTEK    📺 NXTEK    f NXTEK