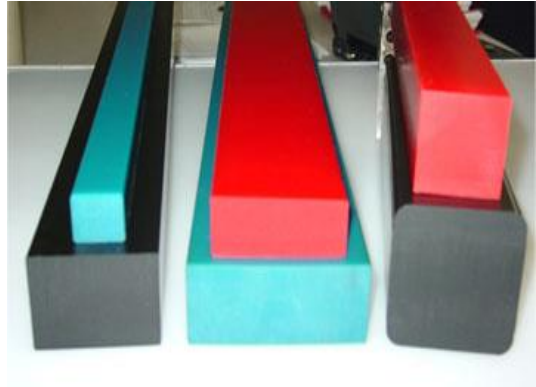


## Company Profile:

We at **PRECISION POLYURETHANES**

manufacture and supply various types of Hi - Performance Cast Polyurethane components and other polyurethane products engineered for multipurpose industrial application in the global market. We have proven experience in manufacturing and application, engineering of custom requirement and delivery of quality products. We have the technical know – how and capability to produce hardness grade of Urethane components from 25A shore to 95A shore in stipulated size, shape and colour.

We supply super-class quality polyurethane products at a competitive price, thereby maximizing the satisfaction of our customers.



## Our Products:

We are the leading manufacturers of **super-class Cast Polyurethane Products**

which includes: Polyurethane Sheets / Rods / Tubes/ PU Wheels / Guide Wheels/ Rollers and PU Lining, Paper-creasing roller, Conveyor rollers, Glass fibre-cutting rollers, Metal Polishing boxes, Life guide, Anti Vibration Mounts and Printing Rollers, Plastic cutting rollers, Bearing, Machine tools wipers, Press tool box, Sieve cleaning pads, Pump seals and gaskets, Gear wheels, Couplings, Bushes, Hydraulic seals, PU



Plugs, Mining Screens, Tube Springs, Shock Absorbers, Hammers for Scratch Free hits, grommets, bearings, bushes and flexible couplings in the Automotive industry; moulds for concrete, gate seals and concrete pump parts in the Buildings & Construction industry; wear plates, PU Lining for Vibratory Bowls, Abrasion resistant pads etc.

## Mission Statement:

To be the source of high quality polyurethane products for the Engineering and Automobile industry, creating a revolution in the quality, reliability & durability of the components used by our customers.



## Main advantages of using Polyurethane Components:

▪ Outstanding abrasion Resistance	▪ Strong Bonding to Metals & Plastics
▪ High tensile strength for improved Performance of the PU Products.	▪ Resistance to Oil, grease, Chemical & Lubricants.
▪ High Load Bearing Capacity	▪ Excellent Hydrolytic Stability
▪ Good Machining properties	▪ Sound Absorbing
▪ Good damping properties	▪ Low Co-efficient of Friction
▪ Wide Hardness range	▪ Ultra Tough Tear Strength
▪ Wide Resilience, High Elasticity	▪ High Flex Capabilities
▪ Good Thermal Resistance	▪ Lightweight-easy & economic to install

## Quality Policy:

**Precision Polyurethanes Policy** is to produce high quality Polyurethane Products, meeting specific customer requirements and delivering on – time, Continuous improvement of quality in products, systems and deliveries will be the hallmark of **Precision Polyurethanes**.



## Quality of our products:

Quality of our products is maintained with stringent quality checkpoints. Starting with the receiving of raw materials, through the manufacturing process and at the dispatch level, Quality check is a must at Precision Polyurethanes. The post - production processes are also checked and verified to ensure that only the best products reach our customers, thereby **maximizing customer satisfaction.**



## APPLICATIONS: -

### **Material Handling Equipment Wheels:**



**Material handling equipment wheels** have a core of Cast Iron & nylon wheels, which is bonded with Polyurethane (PU) for Extra Life; PU is wear and tear resistant and also a scratch free material. It provides about 8 to 10 times the life of a rubber and nylon. PU Wheels can be designed to handle any load under the widest possible environmental conditions. Industrial wheels can be designed for high cut and wear resistance and also to provide scratch - free movement on the industrial flooring.

We guarantee a strong bonding to the metal and nylon wheels that is already in the market and widely accepted by our customers. This design is an example of the application of finite element analysis to achieve buckling above a pre-described operation deflection.



## Conveyor Rollers:



**Conveyor Rollers** are used for noise reduction and for the smooth transfer of bulk material. Longwearing roller coverings provide high-pressure transfer in many industrial applications. Urethanes are currently used in the manufacture of everything from skate rollers and roller-coaster wheels to conveyor drive rollers. Weather ability, shock absorption and abrasion resistance are the principal reasons, high load-bearing properties, resilience, non-marking characteristics, and strong bonding to metal hubs are a second nature to Polyurethanes.

Urethane rubber will deflect under impact stress or compression and recover the original shape when the stress is removed. PU Coating is considered to be very useful for rollers that undergo a lot of abrasion and stress. Most of our customers in the market come to us for the quality and customer satisfaction that is provided at **Precision Polyurethanes**.



## Polyurethane Sheets:



The availability of a large variety of sheet, rods and blocks provides engineers with a quick way to evaluate urethanes for suitability. Even prototype shapes can be machined with metal working tools. PU sheets are used as padding to avoid metal to metal contact, as damping pads for noise reduction and various other uses in the Industrial sector.

**Example:** These sheets are used to make seals by laser cutting and water jet technology.

## Polyurethane Gears and Liners:



The Castable nature of urethanes – which don't require high pressure like typical rubber and plastic – permits quick, low-cost molds and fast response time in many cases. Top-cast surfaces can be faced off in a secondary operation to achieve precise dimensions. The liquid urethane containing all the mixed ingredients “cures” to a rubbery solid at elevated temperatures. Polyurethane can be made to fit customer requirements with any colour, shape and size with the required shore hardness.

## Vibratory Bowls:

Vibratory bowls are universally used for practically any finishing application including deburring, fine finishing, polishing, burnishing and radiusing and can generate specific finish requirements such as pre-plate finishes. Standard bowls are robust & economical. They have an integrated screening system consisting of manually or pneumatically operated separation flap and a built in separation screen. **Polyurethane Liners** for these bowls are the best-suited liners that provide effective protection for the metal bowl.



## Polyurethane Bowling Balls:



Today's top-of-the-line bowling balls are cast urethane. They offer a more consistent level of performance, long life, and less deflection when hitting pins, which translates into higher scores. Good bowlers find the balls can be made to “hook” more for higher scores at the bowling alley.

## Comparisons:

Polyurethanes have definite advantages over conventional rubber, metals and plastics, which makes them a better substitute for industrial applications.

<b>Vs. Rubber</b>	<b>Vs. Metal</b>	<b>Vs. Plastic</b>
High abrasion Resistance	Lightweight	High impact resistance
High cut, tear Resistance	Noise reduction	Elastic memory
Superior load bearing Capacity	Abrasion resistance	Abrasion resistance
Thick section molding & Color ability	Less expensive fabrication	Noise reduction
Oil resistance	Corrosion resistance	Variable coefficient Of friction
Ozone resistance	Resilience and impact resistance	Resilience and thick section Molding
Radiation resistance	Flexibility, Easily moldable	Lower cost tooling
Broader hardness Range	Non-conductive	Low temperature resistance
Castable nature	Non-sparking	Cold flow resistance
Low pressure tooling		Radiation resistance

**Some other applications are shown in the following table: -**

<b>Industry</b>	<b>Applications</b>
Automotive	Grommets, Bearings, Bushes, Flexible Couplings.
Building & Constructions	Moulds for concrete, Gate Seals, Concrete Pump Ports.
Coated fabrics	Conveyor Belts, Fuel Storage Tanks, Power Transmission Belts.
Electrical	Encapsulation, Insulation, Potting, Cable Joining.
Engineered components	Gears, Sprockets, Wire Guides, Rail Draft Gear, Stripper Plates, Press Brake Pads, Textile Yarn Guides, Cutting Boards, Business Machine Belts, Couplings.
Food	Chute Lining, Grain Buckets.
Mining	Bucket Liners, Conveyor Rollers, Scraper Blades, Flotation Cell Impellers, Pump Linings, Grading Screens, Lined Pipes, Crossover Pads.
Oil, Chemical and Marine	Bushings, Bearings, Hydro Cyclones, Buoys, Pipeline Pigs & Scrapers, Fenders, Valve Seats.
Rollers	Board Rollers, Nip Rollers, Metal Forming, Printing, and Conveyor, Coating, Paper Mill.
Wheel and tyres	Fork-Lift tyres, Heavy Duty Caster Wheels, Escalator Wheels, Roller Skate Wheels, Roller Blade Wheels.

**For Further Details, Please contact us:**

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