

We follow a CAE based process for design, development, machining and process improvement of our products. Our product range contains all products regularly required in the market. New developments are encouraged.

### Specification



#### Bakelite Drums

OD Range : 76mm – 100mm

Traverse Range : 3", 4", 5", 6" and 8"

Suitable for accelerated or uniform pitch

Turns : 1.5, 2, 2.5 or 3



#### SynTraverse Drums

OD Range : 76mm – 100mm

Traverse Range : 3", 4", 5", 6" and 8"

Suitable for accelerated or uniform pitch

Turns : 1.5, 2, 2.5 or 3



#### Hard Anodized Aluminum Drums

OD Range : 82mm – 165mm

Traverse Range : 6", 8", 10" and 12"

Suitable for accelerated or uniform pitch

Turns : 1.5, 2, 2.5, 3, or 3.5

Also available as CNC machined from solid bar

Manufacturing Companies & Subsidiaries

#### NPK Textile Engineers

SynTraverse & Hard Anodized Aluminum Drums

#### N. P. Kinariwala Pvt. Ltd.

Bakelite Drums, Bakelite TFO Rolls,  
Special CNC Machined Drums and  
Low Weight Castings

#### NPK Exports Pvt. Ltd.

Export Unit

Agent Stamp



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# DRUMS

**Bakelite**  
**Aluminum Hard Anodized**  
**SynTraverse**

- Takeup Rolls
- Cam
- Intricate Castings



*If it's 'NPK'..  
It's Better Engineered*



## Bakelite Drums

This drum is made from a special **grade thermoset polymer** which has **excellent wear resistance** and machining properties. After machining each drum is **super polished, dynamically balanced and fitment dimensions inspected**. At additional cost ceramic inserts, side flanges and aluminum bushings can be provided to extend life. We recommend these drums for **winding 100% cotton yarns – coarse to fine counts**.

## Aluminum Hard Anodized

This drum is made from a **special aluminum alloy** which has high content of base metal mixed with select noble alloys. The result is a **light weight drum** which is machined, polished, hard anodized and dynamically balanced for **superior wear resistance** while high speed winding of 100% cotton or cotton / synthetic blend yarns.

Our **anodizing** treatment is a select electrolytic passivation process which **increases the wear resistance** on surface and grooves of the entire aluminum drum uniformly. At additional cost ceramic inserts, side flanges and aluminum bushings can be provided to extend life.

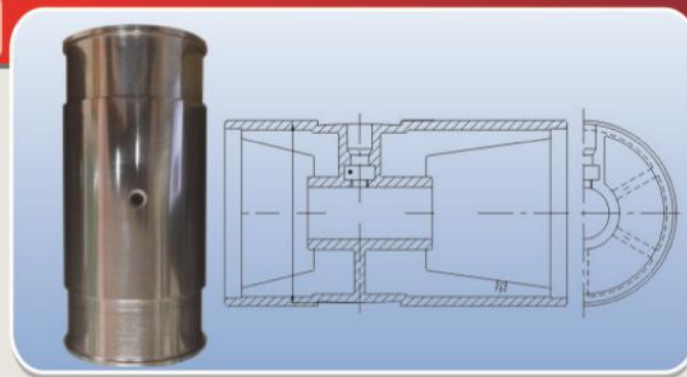


## SynTraverse

Our SynTraverse is a unique blend of multiple technologies. The **core** is made of a special grade **thermoset polymer** which is then **covered with a steel sheet** with edges so project over the core that during the process of winding the yarn will **traverse only on the edges** and will not touch other groove portions. Each component is specifically seam and spot welded, ground and hard chrome plated for **surface hardness of 63HRC**.

The result is that while winding 100% synthetic or other abrasive yarns such as wool, jute, aramid or such technical textiles the component produces excellent performance. Due to its construction the drum has **low co-efficient of friction, light weight and creates no fusion while winding synthetic yarns**.

Ceramic inserts, aluminum bushings are fitted as standard on this drum. Side flanges can be provided at additional cost. Each NPK drum is thoroughly inspected, dynamically balanced and tested for winding before delivery to customers.



## Takeup Rolls

for TFO, OE Spinning and Air Jet Spinning

This roll is made from a special grade **thermoset polymer** using a **monoblock** method to produce **light weight components** which are **rigid and robust** in design and performance. Each component has single or double grooves for fitment of apron and internal bore with tapping point.

## Cam

for traversing & motion control applications

We custom **manufacture** cams from **traverse length 25mm to 500mm** as per customer specifications using materials such as engineering plastics (**ABS, Delrin etc**), **cast iron / SGI (grades)** and **EN series materials**. Our cylindrical cams are used for traversing and motion control applications in textile machines and engineering industries.



## Intricate Castings

for textile machines

We specialized in **design, development and production** of ferrous (CGI, SGI and GG materials) and non ferrous castings (aluminum alloys **with or without internal core**).

These parts require **specific function, structural integrity, strict weight tolerance** and accurate design are produced using gravity / pressure die casting techniques or resin shell molding process.

Our castings are known for their complex **shapes, light weight structure, zero defect process and good machining properties**. Tools are designed using CAD and process improvements validated using modern mould flow simulations.

