

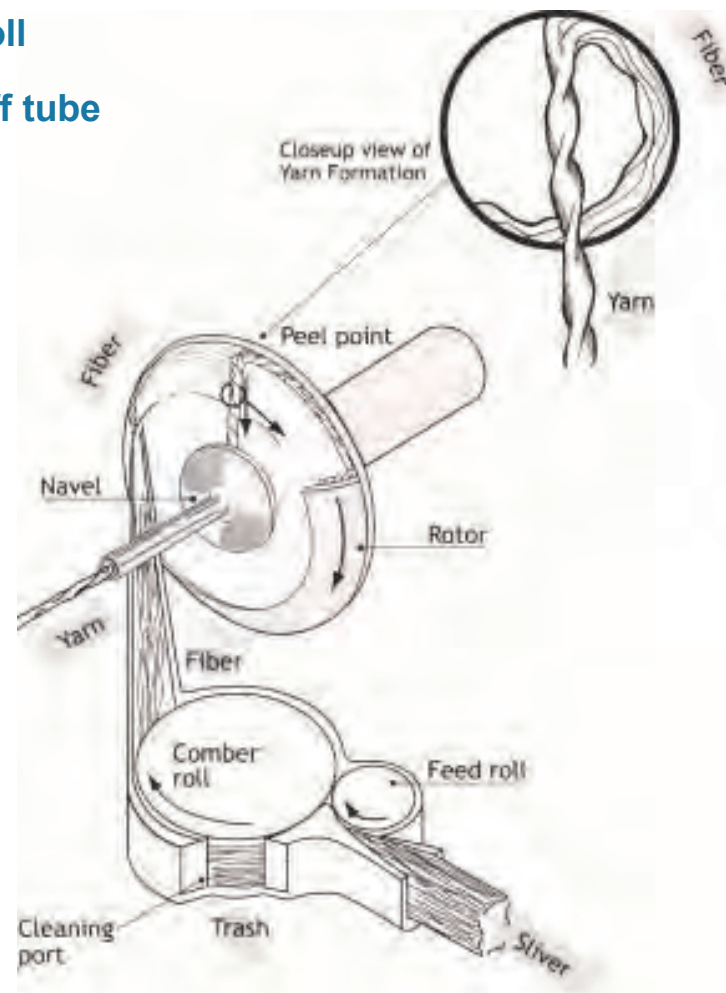
Why Stewarts of America Pinned Products?

There are a number of reasons!

1. Over 130 years of Pin and Pinned Product manufacturing experience
2. Extensive, capable machine and fabrication shop
3. Team of in house experienced engineers, machinists and fabricators
4. Projects are made from scratch in house.
5. Unsurpassed pinning technology precision
6. Huge volume of pin inventory with a wide selection on hand
7. From one and two parts to thousands of parts, Stewarts can do it all
8. Vast experience with textile equipment
9. Extensive knowledge in the design of pin patterns for specific or unusual fiber opening requirements.

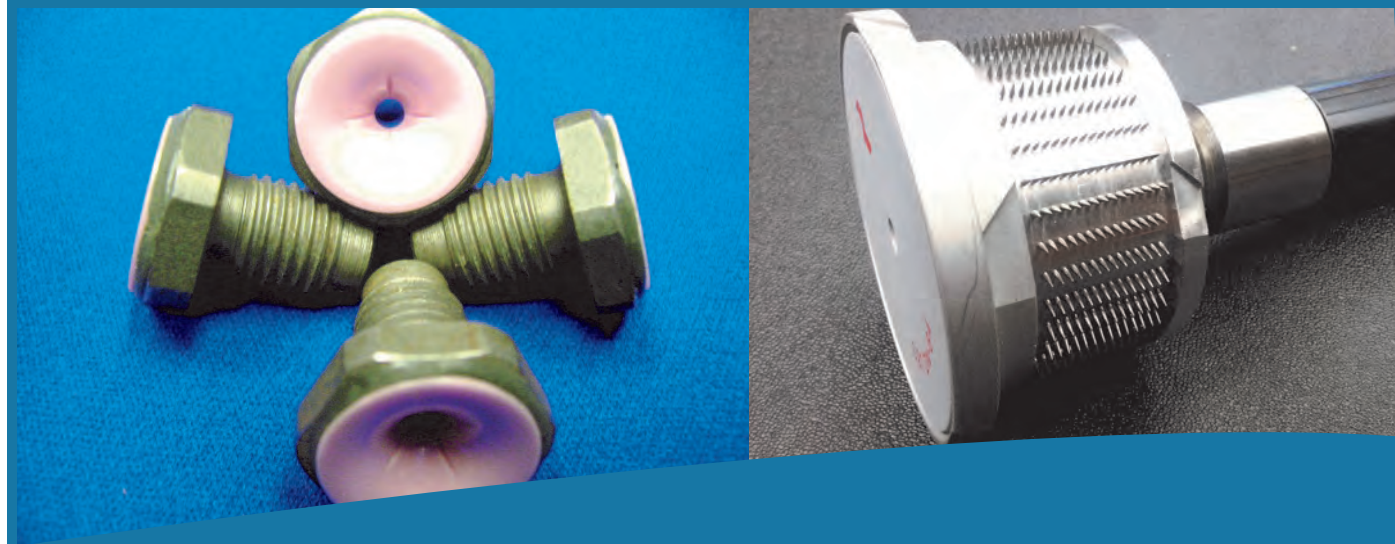
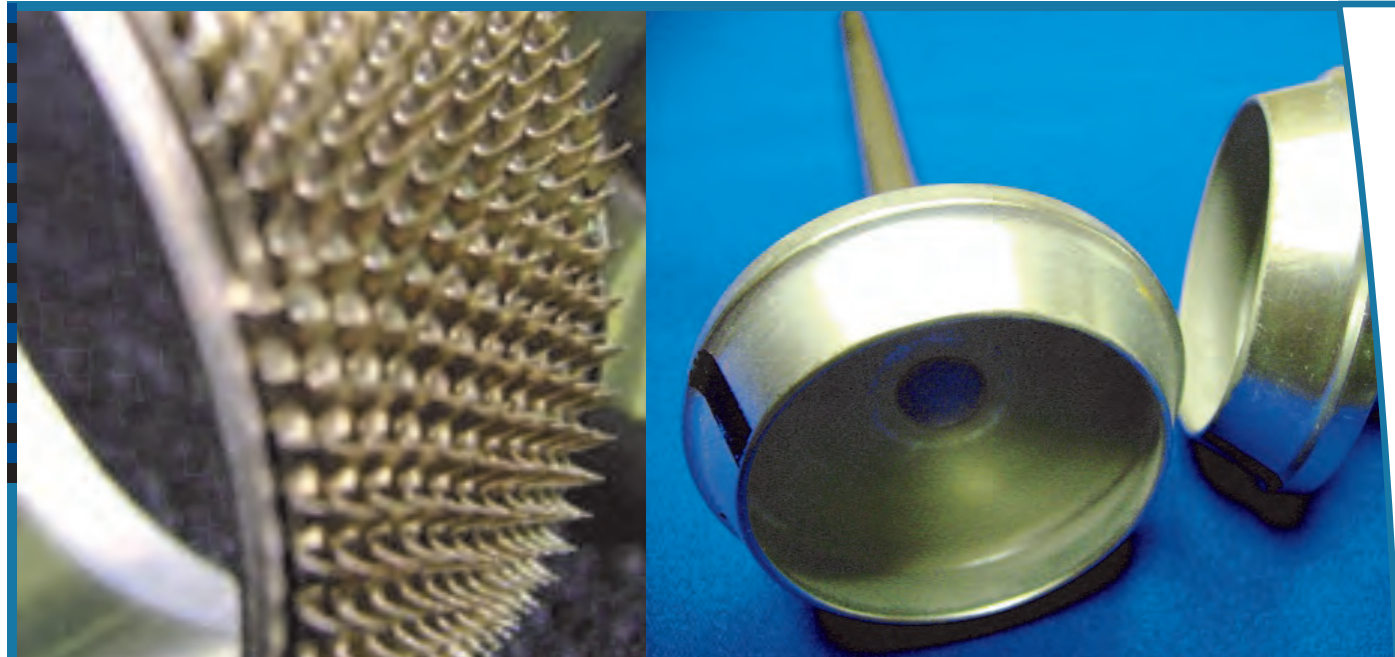
Stewarts of America manufacture all three of the major components in an Open End Spinning System.

1. The Comber roll
2. The Rotor
3. The Naval / Doff tube



Stewarts of America, Inc.
"On the sharp End of Pinpoint Technology"

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Parts
for
Open End Spinning



Stewarts of America, Inc.
"On the sharp End of Pinpoint Technology"



Parts for Open End Spinning Parts

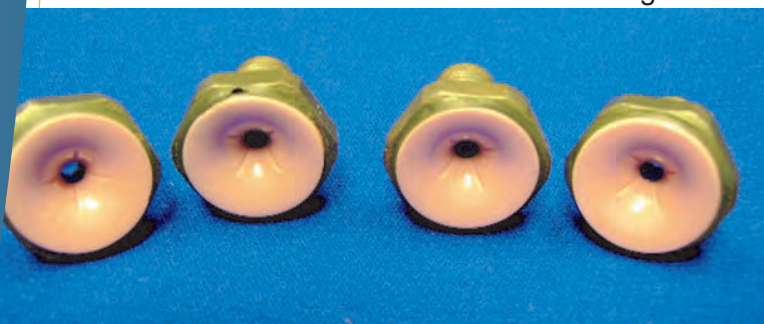


Precision made parts for Open End Spinning machinery



ROTORS

- For all major machinery makers
- Ingolstadt, Savio, Marzoli, Rieter, Schlafhorst...
- All machinery models
- All sizes from fine counts to mop yarns
- Any groove
- Any coating D,BD, DN, N.....
- Dynamically balanced in house
- Ceramic tips if required
- Custom types possible
- Offered with or without shafts and bearings



NAVELS / DOFF TUBES

- For all major machinery makers
- Ingolstadt, Savio, Marzoli, Rieter, Schlafhorst....
- All machinery models
- Ceramic or Steel or both
- Any number of grooves
- Any spiral required

SPINNING EXPERTISE

- Need some help with your spinning application? Call our office, we have textile technicians on hand that can advise you on your spinning setup. We have experts in Open End Spinning and DREF Friction spinning.



PINNED & WIRED COMBING ROLLERS

- For all major machinery makers
- Ingolstadt, Savio, Marzoli, Rieter, Schlafhorst....
- Wide range of wire types available
- Most common, OS21, OB20, B174
- Any pin angle, design and population
- Custom types possible
- Offered with or without bearings.
- All coatings available, D, DN, N.....

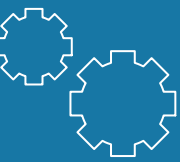
Standard wire types

- | | | |
|----------------|--|---|
| • B174 | | • Cotton |
| • OB20A | | • Cotton, woolen and blended materials |
| • OB20B | | • Cotton, woolen and blended materials |
| • OK40 | | • Blended materials of cotton base |
| • OK37A | | • Synthetics |
| • OK37B | | • Synthetics |
| • OK36 | | • Blended |
| • OK61 | | • Terylene / poly / cotton, acrylic/cotton, blended acrylics |
| • OS21A | | • Blended |
| • OS21B | | • Blended materials of poly / terylene base |
| • MK86 | | • Blended materials of poly / terylene base |
| • CM-2A | | • Synthetic |
| • CM-2B | | • Synthetic |
| • OK74A | | • Cotton, regenerated fibers |
| • OK74B | | • Cotton, regenerated fibers |

- **Other wire types are available**

OTHER COMPONENTS

- Although we specialize in the manufacture of rotor cups, combing rolls and navels, we do source and offer a wide variety of other parts for Open End and DREF spinning equipment. Both new and good used.



CUSTOM SOLUTIONS

Stewarts of America have the ability to design and manufacture a custom pinned product solution for your specific application. Stewart's America's engineers are well versed in a wide range of materials and the effects that pinned products have on these materials. From Cotton to semi-synthetics to aramid fibers,

Stewart's of America are your partners for the *Hole Solution*.



WEB SOLUTIONS

Visit our comprehensive website for a insight of other innovative Pinned Product solutions.

Stewart's of America offers the Industry. Sign up for our e-newsletter, or download informative brochures at www.StewartsofAmerica.com



GLOBAL SOLUTIONS

Stewart's of America has agents and offices worldwide. We ship to over 50 countries. Our equipment is designed with the global market in mind, utilizing electronic components that are available internationally, with the support of our Stewart's of America trained knowledgeable local agents.



Precision made parts for the Open End Spinning machinery