Introducing Composite Idler Rolls

Composite Idler Roll Advantages
• Excellent Strength
• Lighter Weight
• Superior Toughness
• High Corrosion Resistance
• High Abrasion Resistance
• Reduced Material Build-Up
• Low Coefficient of Thermal Expansion
• Environmentally Friendly

• Combats roll degradation typically found in corrosive and abrasive environments
• Longer lasting rolls reduces conveyor downtime
• Lighter weight rolls – “Field Friendly” for maintenance and installation personnel
• Prolongs belt life by reducing material build-up

Composite Idler Rolls are Ideal for replacement of steel rolls in corrosive environments.

Made in U.S.A.

www.syntronmh.com
Composite Idler Rolls Technical Data

What are Composite Idler Rolls?

- Syntron Material Handling introduces a revolutionary new idler roll made with state-of-the-art glass reinforced polyurethane.
- This tubing is a composite material consisting of layers of high quality glass fabric saturated with a two part thermoset polyurethane resin.
- Syntron Material Handling offers a 5" and a 6" diameter x 1/4" wall tubing size suitable for CEMA C, D and E roll applications (Syntron Material Handling C/D3500, C/D3600 & E4600 Series).
- Roll lengths are available for troughing, return, picking and V-return idlers with belt widths ranging from 18" to 72".
- Polyurethane pultruded composite tubing offers excellent mechanical properties similar to steel and superior to many traditional plastic resin roll products. The recommended operating temperature range is -40°F to +200°F.
- Syntron Material Handling composite rolls are extremely versatile and are suitable for many material handling applications*.
- Standard color: Traditional “Syntron Material Handling Orange”

*Currently not suitable in combustible environments, where possible static charge can cause an explosion hazard.

Features/Benefits

- **Excellent Strength**
  Comparable tensile and flexural strength (lengthwise) to steel and aluminum. High strength-to-weight ratio.

- **Lighter Weight**
  Material verses material: 75% lighter than steel and 30% lighter than aluminum. Approximately 50% lighter than traditional steel rolls. Easier installation, “Field Friendly” for maintenance and installation personnel, energy savings, and reduced noise.

- **Superior Toughness**
  This glass fabric distributes loads to prevent surface damage. No permanent deformities. High impact strength. Crack resistant.

- **High Corrosion Resistance**
  Superior resistance to a broad range of chemicals. Excellent in acid, alkali and salt spray environments. Low water absorption. Protective Polyurethane topcoat is suggested if exposed to UV rays during a long term storage.

- **High Abrasion Resistance**
  Superior wear resistance to traditional thermoplastic resin rolls, resulting in longer shell life, longer belt life, and less maintenance.

- **Reduced Material Build-Up**
  Polyurethane resin resists material build-up on the surface of the roll, thereby prolonging belt life.

- **Low Thermal Coefficient of Expansion**
  Low coefficient of thermal expansion, comparable to steel, reducing differential expansion between shell, shaft, and the pressed head.

- **Environmentally Friendly**
  Self extinguishing when exposed to flame in a horizontal position. Low carbon footprint compared to thermoplastic rolls. VOC Free.

Is corrosion eating away your profits?

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