

Introducing Composite IdlerRolls

- 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



Dimensional specifications match our CEMA C, D and E series steel products.



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



Ideal for replacement of steel rolls in corrosive environments.

Composite 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/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

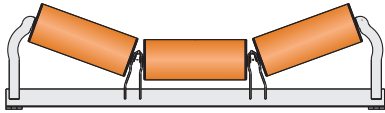
- **Excellent Strength**
Comparable tensile and flexural strength (lengthwise) to steel and aluminum. High strength-to-weight ratio.
- **Lighter Weight**
Material verses material: 75% lighter than steel and 30% lighter than aluminum. Approximately 50% lighter than traditional steel rolls. Easier installation, "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?



Composite Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series C3000 and D3000.



The following part numbers fit

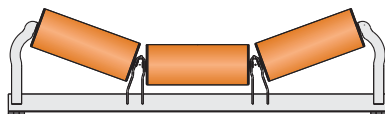
5” diameter composite troughing rolls for 3601C, 3502C, 3506C, 3507C, 3508C, 3509C, 3511C, 3528C, 3532C and 3537C idlers

C3500 Replacement Rolls

Belt Width	Part Number
18	5269-404-A
20	5269-404-B
24	5269-403-C
30	5269-403-D
36	5269-403-E
42	5269-403-F
48	5269-403-G
54	5269-403-H
60	5269-403-J
–	–

D3500 Replacement Rolls

Belt Width	Part Number
–	–
–	–
24	5269-403-C
30	5269-403-D
36	5269-403-E
42	5269-403-F
48	5269-403-G
54	5269-403-H
60	5269-403-J
72	5269-403-L



The following part numbers fit

6” diameter composite troughing rolls for 3601C, 3602C, 3606C, 3607C, 3608C, 3609C, 3611C, 3628C, 3632C and 3637C idlers

C3600 Replacement Rolls

Belt Width	Part Number
18	5269-395-A
20	5269-395-B
24	5269-365-C
30	5269-365-D
36	5269-365-E
42	5269-365-F
48	5269-365-G
54	5269-365-H
60	5269-365-J
–	–

D3600 Replacement Rolls

Belt Width	Part Number
–	–
–	–
24	5269-365-C
30	5269-365-D
36	5269-365-E
42	5269-365-F
48	5269-365-G
54	5269-365-H
60	5269-365-J
72	5269-365-L

Composite Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series C3000 and D3000.



The following part numbers fit

5” diameter composite return/carrying rolls for 3513C, 3514C, 3517C, 3520C and 3526C idlers

C3500 Replacement Rolls

Belt Width Part Number

18	5269-404-AA
20	5269-404-AB
24	5269-404-AC
30	5269-404-AD
36	5269-404-AE
42	5269-404-AF
48	5269-404-AG
-	-
-	-
-	-
-	-
-	-

D3500 Replacement Rolls

Belt Width Part Number

-	-
-	-
24	5269-403-AC
30	5269-403-AD
36	5269-403-AE
42	5269-403-AF
48	5269-403-AG
54	5269-403-AH
60	5269-403-AJ
66	5269-403-AK
72	5269-403-AL
78	5269-403-AM



The following part numbers fit

6” diameter composite return/carrying rolls for 3613C, 3614C, 3617C, 3620C and 3626C idlers

C3600 Replacement Rolls

Belt Width Part Number

18	5269-395-AA
20	5269-395-AB
24	5269-395-AC
30	5269-395-AD
36	5269-395-AE
42	5269-395-AF
48	5269-395-AG
-	-
-	-
-	-
-	-
-	-

D3600 Replacement Rolls

Belt Width Part Number

-	-
-	-
24	5269-365-AC
30	5269-365-AD
36	5269-365-AE
42	5269-365-AF
48	5269-365-AG
54	5269-365-AH
60	5269-365-AJ
66	5269-365-AK
72	5269-365-AL
78	5269-365-AM

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