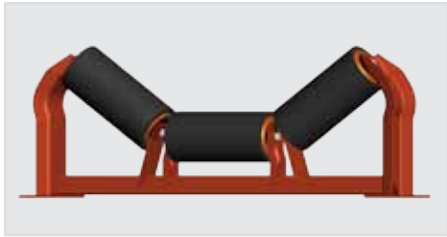


# Moxie® Rolls

Energy Efficient Idlers Consume Less Power than Steel



## Quick Specs

- ▶ **Classes:** CEMA C and D
- ▶ **Roll Diameters:** 5" and 6"
- ▶ **Belt Widths:** 18" - 72"

## Frequently Asked Questions

### What are Moxie rolls made from?

- ▶ There's a combination of materials that go into the recipe to develop our specially formulated Moxie rolls.

### How thick is the idler shell?

- ▶ Compared to the rest of the market, we offer the thickest shell. Our 6" diameter rolls are equipped with a 1" thick shell while our 5" rolls are 1/2" thick.

### How is the roller easier on my crews?

- ▶ Weighing in at more than 40% lighter than their steel equivalents, Moxie rolls are much lighter on the backs and bones of your maintenance crews. Easier mounting helps prevent back injuries, especially in applications with suspended belts, difficult to access rollers and long conveyors.



**Fig 2.1** No More Corroded Idler Rolls

## Digital Literature

Forward to Colleague



**Moxie Rolls**

## Features and Benefits

### Sheds Sticky Material

- ▶ **Standard Steel:** Wet, sticky material tends to cake onto steel cans
- ▶ **Moxie Rolls:** The lubricity of Moxie rolls sheds sticky material
- ▶ **Standard Steel:** Material bonded to idlers is a chief source of misaligned belts
- ▶ **Moxie Rolls:** Reduced misalignment and tracking issues
- ▶ **Video Proof:** <http://superior-ind.com/components/idlers/moxie>

### Corrosion Resistant

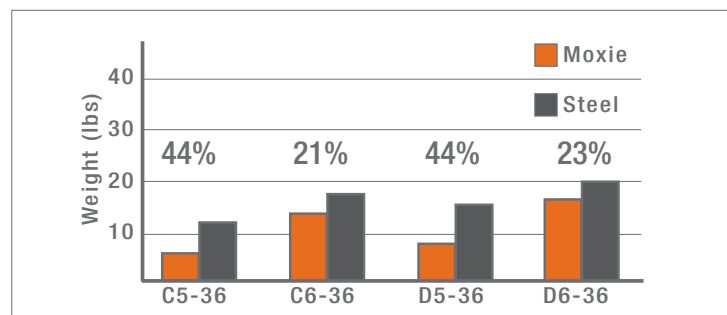
- ▶ **Standard Steel:** In corrosive environments, steel can rust (Fig 2.1)
- ▶ **Moxie Rolls:** The specially designed formula is rust resistant
- ▶ **Note:** Upgrade to stainless steel shafts and frames

### Safety

- ▶ **Standard Steel:** The more weight, the more power requirements
- ▶ **Moxie Rolls:** Low roll resistance cuts horsepower requirements
- ▶ **Standard Steel:** Heavy rollers can be ergonomically unhealthy
- ▶ **Moxie Rolls:** The lightweight rollers weigh up to 44% less (Fig 2.2)

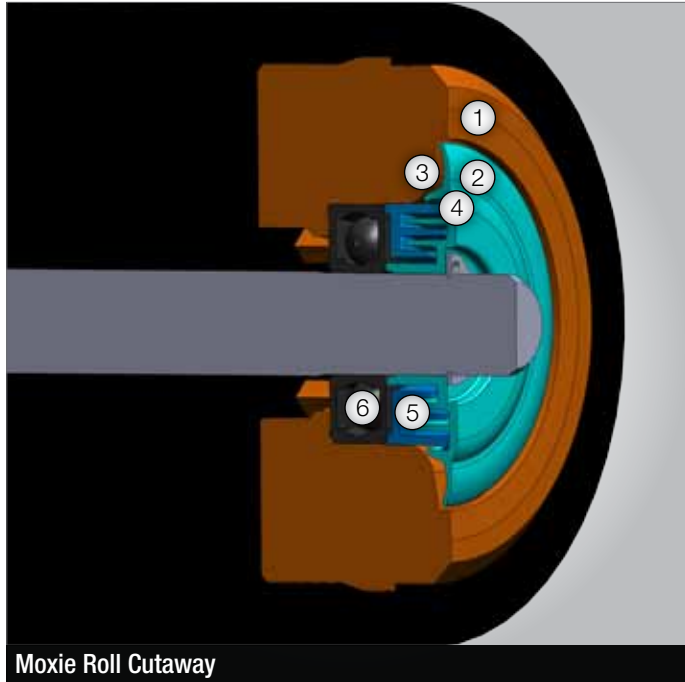
### Reduced Noise

- ▶ **Standard Steel:** Steel generates a "clanking" sound when it contacts belt fasteners
- ▶ **Moxie Rolls:** 3x quieter than steel, Moxie rolls provide noise control in residential zones



**Fig 2.2** Weight Comparison

# SpinGuard® Seal Technology



Moxie Roll Cutaway

- ① **Flat Surface:**  
Material will not build up across the flat surface
- ② **Recessed/Stationary External Seal:**  
Stationary external seal helps prevent material pinch points between the frame and the end of the roller
- ③ **Centrifugal Force Chamber:**  
Centrifugal force creates a self-cleaning flinger effect, keeping water and dirt out
- ④ **Contact Seal:**  
First defense against contaminants is the contact seal which creates less drag than a rubber seal
- ⑤ **Triple Labyrinth Seal:**  
Second defense is the triple labyrinth seal which makes contaminants travel a longer distance
  - ▶ The labyrinth is also grease filled to keep contaminants away from the ball bearing
  - ▶ The glass filled polypropylene seal material is more durable and is less susceptible to corrosion
- ⑥ **Ball Bearing:**  
Factory sealed metric ball bearing on all CEMA rated idlers

## Producer Perspective



Plant Manger at Seven Points Sand and Gravel, Enis, Texas

### Pizza Cutter

“ If we didn’t catch a worn steel roll in time, the sharp points would catch the clips, tear them apart and cause a rip all the way down the belt. That is an expensive problem! ”

### Belt Stress

“ Belts aren’t all that easy to come by, so the operation would easily be down a day or more when there was a big tear. That is a problem at our operations with round-the-clock load-outs. ”

### Energy Efficiency

“ The decision to switch to Moxie rolls alone is one of the biggest keys to our current efficiency at the new wash plant. ”

## Part Number Guide

Example: C5-35E-36MOX



\* For return Moxie rolls, substitute roll diameter and troughing angle with “RET.”