

YeloRoll® vs. HDPE
t-PVC Polyethylene



HDPE (Polyethylene) melts and smokes creating fires, damaging belts and bringing production to a stop.



YeloRoll® Won't Melt Like HDPE Rolls

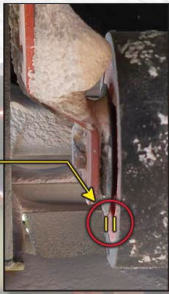
YeloRoll® Grabs belt the same as metal can rolls

- Coefficient of Friction:
- HDPE (Polyethylene, sleeve or tube) 0.17
- Metal can rolls 0.47
- YeloRoll® (t-PVC) 0.45

Thermal Expansion:

HDPE (polyethylene) rolls expand or shrink at a rate four times t-PVC YeloRoll®. HDPE rolls prematurely fail from loose fitting and sloppy bearings.

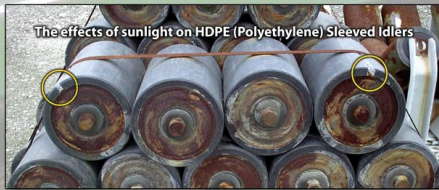
YeloRoll® is 60% lighter than metal can rolls, 40% lighter than HDPE (polyethylene) rolls.



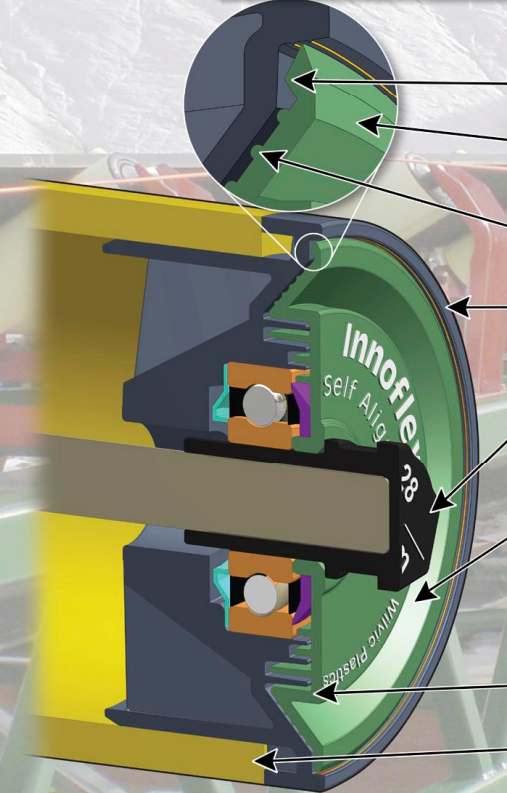
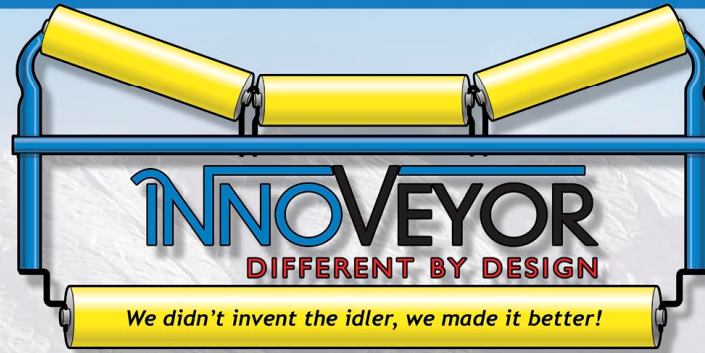
HDPE (Polyethylene) Slider Bed Top Cover (belts slide)



HDPE (Polyethylene) Sleeved Metal Can Roll (belts slide and mistrack)



The effects of sunlight on HDPE (Polyethylene) Sleeved Idlers



Wash-Down Duty

1 During wash-down, the engineered edge of the YeloRoll® flinger forms a contact seal with minimal drag, stopping the ingress of water and solids, protecting the metric ball bearing.

Engineered Surfaces

2 YeloRoll's® Shaped flinger surfaces cuts through sticky corrosive solids that builds up on flat, smooth and uneven surfaces, offering bearing protection since 1994.

Disc Brake Technology

3 YeloRoll's® Grooves prevent roll lock-up by cutting through solids, slowing and moving material away, protecting the bearings.

No Welded Seams

4 YeloRoll® has pressure fitted end-caps, rather than welded, metal can welds will corrode and wear, thus separating from the shell, forming a pizza-style cutter, slicing belts and bringing production to a halt.

Combi-Cap™

5 YeloRoll® bearings mounted over top of Combi-Cap™ rather than directly to the solid steel shaft, eliminating corrosive dielectric and creating a more robust system by reducing bearing shock and vibration.

Jammed Frozen Rollers

6 YeloRoll® leads the industry with a non-rotation, Flinger-Seal that will not slow roll rotation when material jams between it and the frames, protecting the bearing by covering 80% of the YeloRoll® end cap.

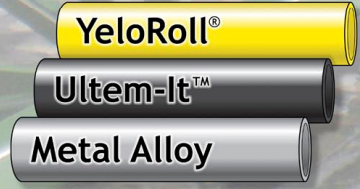
Bearing Protection

7 Three part, YeloRoll® non-contact labyrinth followed by a secondary PVC bearing lip and grease retention seal 7 protecting the sealed ball bearing 8 having two non-contact seals 9 with no free standing grease.

8 Solids mixed with grease create a polishing mixture, cutting through labyrinth and bearing seals.

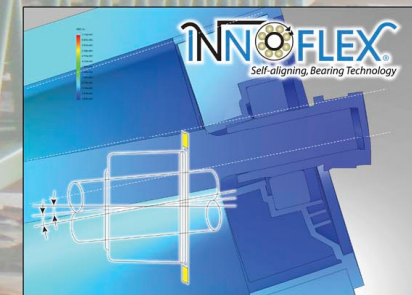
Proprietary Formulation (MSHA #IC-239/00)

9 The titanium enriched PVC YeloRoll® grabs and steers the belt the same as metal can rolls, is self-extinguishing and has 40% greater roller abrasion characteristics than HDPE, 2:1 over metal can rolls, conductive and approved for underground use.

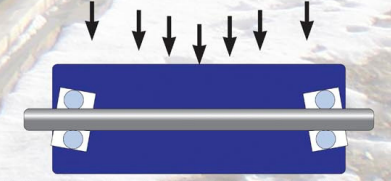


OTHER CYLINDER OPTIONS:

- ❖ 30 years of mining experience
- ❖ Application specific solutions
- ❖ Performance guarantee
- ❖ Polymer chemist on staff
- ❖ Economical
- ❖ In partnership with Wilvic Plastic and CertainTeed Yelomine Pipe



❖ InnoFlex® Self-aligning Bearing Technology, manufactured by Wilvic Plastics, specially designed to prevent bearing damage, increasing performance.



Misaligned bearings due to load, shaft deflection and under-designed end caps

❖ Innoveyor™ Inc. is recognized as the World Leader in Composite Idler Technology; preventing personal and carrier injuries through light weight, mine hardened replacement conveyor idlers with InnoFlex® Self-aligning Bearing Technology.



We didn't invent the idler, we made it better!

