

# Martin® High Speed Impact Cradle



The [Martin® High Speed Impact Cradle](#) is designed to provide belt support in transfer points where belt speeds exceed the operating limits of ordinary impact bar belt support cradles.

**NOMENCLATURE — HSRC  $\frac{X}{1} \frac{X}{2} \frac{P-XX}{3} \frac{XX}{4} \frac{X}{5} \frac{X}{6}$**

1. The first X indicates CEMA class:  
D = CEMA "D"  
E = CEMA "E"
2. The next X indicates roll diameter:  
5 = 5 inches  
6 = 6 inches  
7 = 7 inches
3. The next X indicates roll manufacturer:  
P = PPI
4. The next XX indicates belt width:  
CEMA D is available in 30–72"  
CEMA E is available in 36–96"
5. The next XX indicates trough angle:  
20 = 20 degrees  
35 = 35 degrees
6. The next X indicates stringer width:  
S = Standard  
W = Wide

**BENEFITS**

- Designed and engineered for high speed/high tonnage belts.
- Designed to withstand the highest belt speeds achievable with heavy-duty impact rolls.
- Slide-out/slide-in roller frames allow idler service without the need to raise belt or remove adjacent idlers.
- Close roll spacing allows effective belt sealing and superior belt support.
- Innovative upper connector brackets link idlers together throughout the load zone, allowing them to work together as a unified structure.
- Elastomer bar suspension absorbs shocks from impact maximizing the life of the belt support structure and rolling components.
- Accommodates belt widths and troughing angles for CEMA, DIN, SABS and other conveyor standards.
- Assemblies are supplied with impact rolls from Precision Pulley and Idler.

**SPECIFICATIONS**

Idler Diameter	Maximum Belt Speed
5 in.	700 FPM (3.5 m/s)
6 in.	870 FPM (4.4 m/s)
7 in.	990 FPM (5.0 m/s)



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