

Devlon® S Grade - gear pinion on granulator - Food

Case Study: Devlon® S Grade drive gear, metal replacement parts for the food industry.

Problem

The customer was experiencing high maintenance costs due to excessive wear being transferred to mating parts and a resultant short service life. This was having a negative effect on operational capacity and in-service maintenance, as well as causing significant wear to other mating parts on the plant.

High maintenance costs and short service life

Application

Granulator Conditioner at UK food processing plant.

- Steel pinion - 17.5" diameter
- 6" face width with 20 teeth

Existing solution

Steel gear pinion part

James Walker solution

The team at James Walker assessed the application and requirements and designed and installed a single piece, machined, lightweight Devlon® S Grade gear pinion.

Devlon® S Grade offers superior mechanical properties and yields optimum performance in rigorous and abrasive applications at ambient temperatures.

Replacing the existing case steel pinion with Devlon® removed the need for lubrication and reduced the wear on mating parts.



Results and benefits

Since the installation of the Devlon® gear pinion, the customer has reported a significant reduction in wear on both the pinion and gear ring. This has resulted in extended service life, reduced plant downtime and associated maintenance costs.

Extended service life and reduced costs



Reduced wear on mating parts



Removed the need for lubrication



Reduced downtime and maintenance costs



Extended service life

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