## F&B case studies



## **UK Meat Trials**



### Meat Grinding Kit Stirchley Burger Company



ateri

Part design

Part manuf. Heat treat

mach.

Surface treat. Jamie Gowans voestalpine HPM UK

Application:

Meat Grinding Kit mince for Burgers 3mm Hole Plate / 6 arm start cutter & pre cutter

Problem:

Extreme Abrasive wear on Hole plate & Star Cutter Blade. Kit changed ever 2 days in production. Approx 16th of product produced

Solution: Full machined & Coated Grinding kit using voestalpine Premium grades.

Performance:

102 days and on going of full production only slight wear on star cutter Apporx 816tn of product produced.





Previous kit

440c material tested @ 40 HRC



voestalpine kit Using voestalpine premium steels and PVD coatings

Picture source: voestalpine

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### Meat Grinding Kit Stirchley Burger Company



Jamie Gowans voestalpine HPM UK

Materia

Part design Part manuf. Heat treat mach.

Surface treat.

Application:

Meat Grinding Kit mince for Burgers 16mm Hole Plate & 5 Arm blade

#### Problem:

Abrasive wear on Hole plate & 5 arm Blade. Kit changed ever 5 - 7 days in production. Approx 40 – 50tn product produced

Solution: Full machined & Coated Grinding kit using voestalpine Premium grades.

#### Performance:

210 days and on going of full production only slight wear on Blade & hole plate still cutting fine 1680tn of product produced





Previous kit

440c material tested @ 40 HRC



voestalpine kit Using voestalpine premium steels and PVD coatings

Picture source: voestalpine

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### Stirchley Burgers Meat Grinding kit Trials

Customer type:

**UK Burger Manufacturer** 

Mincing approx. 8ton. Per day over 5 shifts 40tn per week

Currently using a Wolf king machine

Customer problem in detail:

Fast wearing parts / Constantly changing kits every 2 days in production. Having to deal with current suppliers daily (service provider) to arrange collection & re delivery of kits

#### Problem context:

Food Contact Materials certification required and provided..

During the trial, the importance of the shaft as an integral, tailored part of the kit also became apparent.

Solution in detail:

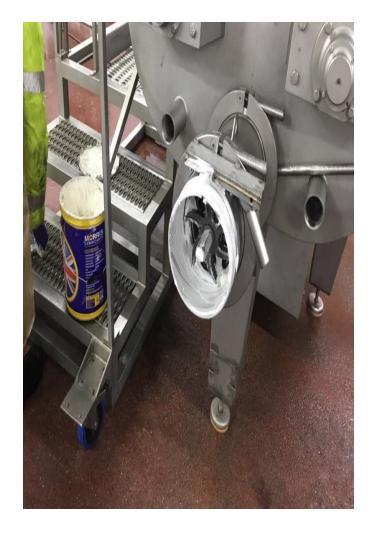
Kit made from voestalpine premium materials with tailored heat treatment for optimum hardness and wear resistance, and using PVD coatings on selected parts Alternative solutions considered:

Alternative materials were considered. Part design was optimised

Why did the customer decide to go with this solution?

Customer was initially in disbelief with expected production lifetime, but having seen good results is keen to proceed also with other improvements

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