

# F&B case studies

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ONE STEP AHEAD.

# UK Meat Trials

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# Meat Grinding Kit Stirchley Burger Company



Jamie Gowans  
voestalpine HPM UK



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

Problem:  
Extreme Abrasive wear on Hole plate & Star  
Cutter Blade. Kit changed ever 2 days in  
production. Approx 16tn 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



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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# Thanks for Listening

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