

INCREASING THE SPEED OF QUALITY CONTROL

How to improve the speed of your sample cutting to boost your yield
 – without compromising on quality

On a fast-moving production line, quality control can be a significant bottleneck. By reducing the amount of time it takes to perform quality control checks – without compromising on quality – your quality control department can contribute significantly to increasing production efficiency, shortening lead times, speeding up batch release and reducing total production time per unit. The question is: how can this be done?

The answer is surprisingly simple. By switching to Premium cut-off wheels from Struers, your quality control department can increase yields and efficiency, while also increasing the quality of samples taken – which are all key parameters for success.

Higher yields for faster throughput

A solution report by Struers shows how a simple adjustment to your quality control cutting solution can increase yields and lower waste. The report uses a crankshaft cutting process to analyze the benefits you gain from switching to Premium cut-off wheels from Struers.

Due to the complex geometry of a crankshaft, the cutting process can take over an hour. By using a Premium cut-off wheel from Struers, you can increase speed by an average of 19%, increasing your yield by one-fifth.

CUTTING PROCESS	STRUERS PREMIUM CUT-OFF WHEEL	CONVENTIONAL CUT-OFF WHEEL
Set-up of crankshaft in cutting machine	3	3
Time taken to make 18 cuts	45	54
Repositioning between cuts	15	21
Removal and re-set of crankshaft after 4 cuts	3	3
Total time for cutting sequence	66 minutes	81 minutes

Lower waste for lower costs

The thinner Premium cut-off wheels enable more cuts per section, reducing cut-off wheel waste by 12%. In addition, the improved wear characteristics of Premium cut-off wheels also mean fewer cut-off wheels

are used, bringing down your purchasing costs.

All this means faster turnaround times, lower costs and less waste. For a high-volume production line, these small savings can add up to significant benefits.

Find out more

The time-saving benefits outlined here are based on extensive tests performed by Struers. To find out more, read the solution report, or call your local Struers representative to find out how this solution can be implemented on your production line.

Get the full report ...

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