



METALLURGICAL AND MANUFACTURING SERVICES

IMPROVING MACHINING CONFIDENCE AND COMPONENT COMPLEXITY
WITH MASTERCAM AND CIMCO

ABOUT

Established in 1998 and based in Centurion, Gauteng, [Metallurgical and Manufacturing Services](#) provides expert welding and machining services, alongside reverse engineering and consulting.

The company has grown its machining capacity over the years to support a wider range of work, creating a greater need for efficiency, process control, and consistent precision.

That focus on improving quality while managing increasingly intricate components shaped the next stage of its manufacturing workflow.

CHALLENGE

As a predominantly job-shop operation, Metallurgical and Manufacturing Services needed to improve efficiency as its machining capacity expanded. The business also needed better control over quality and precision while minimising scrap rate and eliminating machine collisions and tool breakage.

SOLUTION

Implementing [Mastercam](#) and [CIMCO](#) to improve programming, verification, and machining precision.

RESULTS

- Reduced programming time for intricate and challenging components
- Minimised scrap rate across daily machining workflows
- Eliminated machine collisions and tool breakage risks
- Became a preferred supplier to leading impeller and blade manufacturers

“ You feel more confident when pushing ‘play’ after CIMCO has verified a 5-axis high speed program. ”

Christo Labuschagne
Engineering Manager