mecadmfg.co.za
+27 12 645 4300
marketing@mecad.co.za

MECHTECH POWER TRANSMISSION AND ENGINEERING

CUTTING SMARTER WITH MASTERCAM

ABOUT

Established in 1997 and based in Benoni, **Mechtech Power Transmission and Engineering** manufactures sprockets, gears, V/PVP pulleys, timing pulleys, and associated products for the Power Transmission industry.

The company handles both milling and turning, giving it the flexibility to take on a wide range of projects and part types across the sector.

With a production floor built around repeat work, Mechtech relies on established machine profiles, tool libraries, and templates for common part geometries to keep output consistent.

CHALLENGE

Programming complex toolpaths was time-consuming and prone to errors, with no reliable way to catch problems early. Toolpaths had to be adjusted after simulation, wasting machine time and leading to costly rework. Tooling wear, damage, and machine crashes added further cost and downtime.

SOLUTION

Implementing **Mastercam 2D Mill** and **Mastercam Lathe** with automated toolpaths, simulation tools, and built-in CAD model import.

RESULTS

- Reduced machining cycle times by approximately 20%
- Faster programming and shorter setup times
- Eliminated costly reworks through early simulation checks
- Reduced tooling wear, damage, and machine crashes

> **"By optimising toolpaths we reduced machining cycle times by +- 20%, which allowed us to increase production capacity."**

Lindzey van Aswegen
General Manager