



PROJECT PROFILE

RECYCLED WIRE COMPACTER

CLIENT CHALLENGE

Our client is a company that specializes in the design, manufacture and marketing of high quality mechanized equipment serving customers in the Underground Mining Industry, as well as the Commercial and Municipal Sectors. They were approached to develop a machine that would compress refuse wire from tires into compacted bundles for further processing. The goal of the client is to achieve a design that accomplishes the task reliably with realistic maintenance targets. The client required New Product Development expertise in key stages of the New Product Development Cycle:

- Concept Engineering design
- Knowledgeable COTS sourcing
- Prototype CAD modeling and FEA analysis
- Proof of Principle (POP) test fixture
- Machine Design expertise
- Manufacturing Drawings

SOLUTION

Palladium was retained for our expertise in machine design and the New Product Development field. The following tasks were performed during the project:

- Realistic concepts substantiated by practical machine design experience
- Interactive design development with close collaboration with the client
- Development of two unique sized design versions
- 3D CAD modelling and drawings
- Test fixture build and test



PROJECT HIGHLIGHTS

Palladium staff accomplished the project deliverables by utilizing:

- Previous Machine Design experience that minimized development time.
- Knowledgeable COTS sourcing and experience dealing with OEM manufacturers.
- Use of up to date distance collaboration tools.

Palladium's work enabled the client to:

- Meet design timeline targets
- Mitigate design risks by intelligent use of early POP models/testing and analytical analysis.
- Provide a well documented design path.

