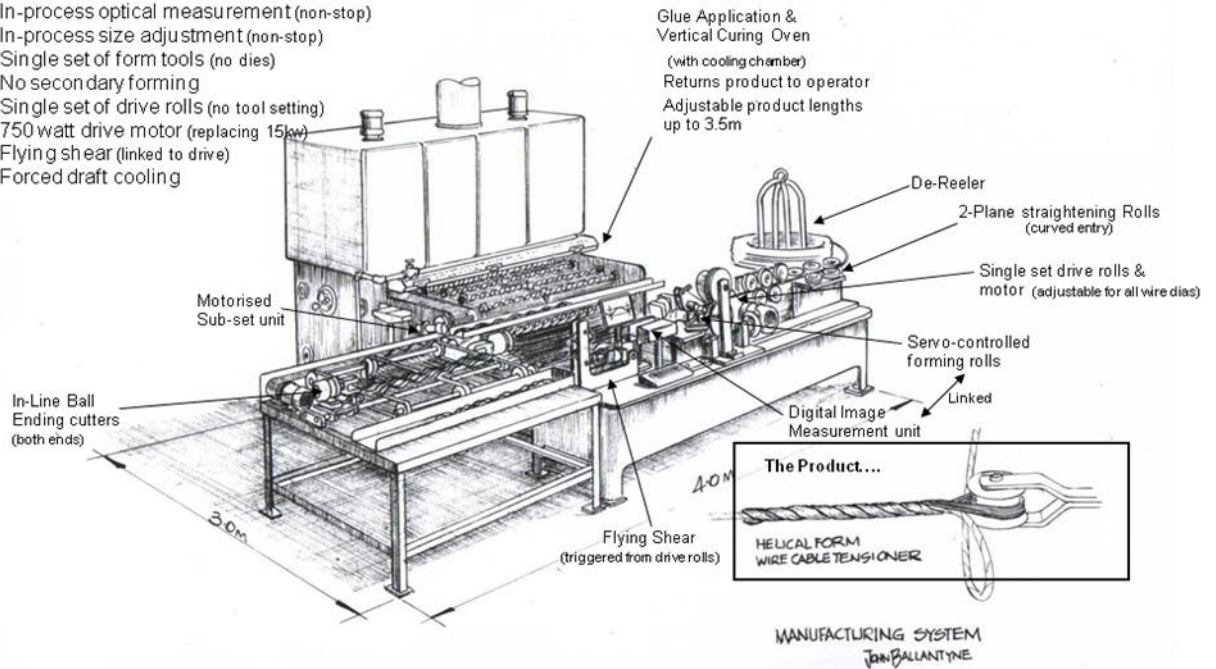


Design Benefits

- 12 m² footprint (existing = 46 m²)
- Transportable in a 20ft container
- One 7kw element (replacing 48kw gas burners)
- In-process optical measurement (non-stop)
- In-process size adjustment (non-stop)
- Single set of form tools (no dies)
- No secondary forming
- Single set of drive rolls (no tool setting)
- 750 watt drive motor (replacing 15kw)
- Flying shear (linked to drive)
- Forced draft cooling

JBMS Design Brief

To design & build a "portable" manufacturing process that can be transported in a standard 20ft container.....
....with set up-free processes and "CNC" size control



In 2006 Tyco Electronic Energy Division commissioned JBMS to develop a new process for making their cable tensioning device known as "Heliform".

The existing production lines in Wyong NSW and Bangkok each occupied 46 square metres.

The design brief was to build a process that could be packed into a 20 ft container! (The project has become known as "the factory in a bottle")

The container requirement is to enable Tyco to move the process from project to project throughout SE Asia.

In addition to the container requirement the brief demanded a 95% reduction in major set-up time and "CNC control" meaning automatic in-process size control.

Two years of research and development with JBMS engaging assistance from two Australian universities has resulted in a feasible solution meeting all requirements. Prototyping proved viability and detail manufacturing drawings have been produced by JBMS.