









At Acres Engineering Ltd, we specialise in providing quality engineered custom products whilst designing for manufacture and assembly (DFMA).

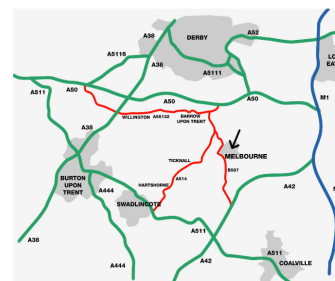
Products are risk assessed at the design stage and the designs meet appropriate European directives. Our products are designed for safety, integration, standardisation, low maintenance, easy use and low cost life cycle.

Production Support Equipment 	Transport trolleys for aerospace 'blade mould' castings 	Ground Support Equipment 	Traction stands for fitting out and inspecting locomotive carriages. 	Lifting 	Designed for loading/unloading of fixtures that cut the suction and pressure surfaces of aerospace turbine blades. 	Manual Handling 	Transfer trolleys for 'hot pipes' replacement during power station outage project. 
--	--	--	--	---	---	---	---

We design, manufacture, assemble, load test and CE mark. We take care of any additional elements required for custom machines or small automation jobs; including electrical, pneumatic and hydraulic control elements, and where needed we provide regular thorough examinations. Although we focus on manufacturing custom solutions **we continue providing a sub-contract parts and sub assembly service to our customer's own drawings and designs.** We put a lot of emphasis on partnership and flexibility. That means that whatever the contract, we'll keep you in the loop... from initial consultation and CAD design, to prototyping and manufacturing in the quantities you need, when you need them. It's this approach that makes us a preferred supplier of leading names across a broad range of industries.

Below you will see a selection of clients from a wide variety of market sectors, including (but not limited to), Aerospace, Automotive, Rail, Pharmaceutical, Power Generation and Material Handling:

-Brush Electric Machines	-Rolls Royce	-Atkins
-Balfour Beatty Rail Technologies	-Bombardier	-Siemens
-Napier Turbochargers	-Unipart Rail	-E.ON
-GlaxoSmithKline	-Brush Traction/Transformers	-Alstom
-Doosan Babcock	-Hoppecke Industrial Batteries Ltd	-Toyota
-Reckitt Benckiser	-Fluor Power Division	-Telnet Technology



Melbourne, Derby, DE738JB

Capacity/ Resource List:

Solidworks 3-D CAD, IGIS, STEP, DXF & DWG.
Mild Steel, Stainless Steel & Aluminium.
Coded MIG, TIG & Spot Welding.
CNC Punching up to 6mm.
CNC Forming 3m x 135 Tonne.
In-house machining.
Assembly with Wood, Polymers, Rubber, Electrics, Hydraulics & Pneumatics.
Load Test, CE Marking & Regular Inspection.

- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process



'A- Frame' Shadow Boarding System – fully implemented in major aerospace company's production line.

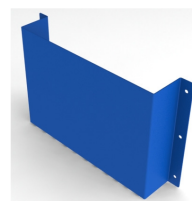
Project specification:

Carry assembly components in build sequence order directly to the build line from a decanting area using standardised handling equipment.

The A Frame trolley achieved the project specification giving maximum flexibility whilst assuring that the product is delivered safely, securely and in the correct build sequence order.

Acres carried out the design, manufacture, project management, shadow creation and assembly of the A frame trolleys. In regards to the shadows, Acres have created and cut all of the shadows featured on the boards using a vinyl cutter. During a rebalance these shadows can be re printed and re organised to suit the new board layouts. A team (onsite or offsite) can be provided to fit shadows and fixings to the boards if you do not have the available resource. Acres can manage the trolleys loop cycle and provide a maintenance contract.

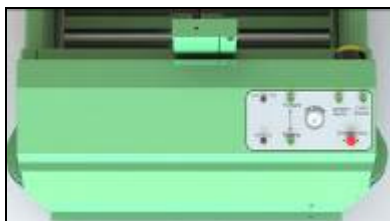
The A Frame does not suit all applications, and for this reason Acres has manufactured other trolleys in this range which all share common design features like wheel centres, castor type, handle type etc.



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

Fork-truck Battery Changing Machine



The battery changing machine shown above is an example of a 'designed and develop', Acres product. The machine fits onto any powered pallet truck (PPT). Acres have a manufacturing partnership with Hoppecke Batteries and sell the machine solely to them. The machine is powered by a hydraulic power pack which moves a carriage forwards and reverse. On the end of the carriage is a pair of powerful magnets which are attached to the battery. The machine pulls batteries off and onto fork trucks and battery charging racks. Fork truck batteries can weigh up to 2.25 Tonnes.

Automation

A Servo and pneumatic system to insert and extract tooling for an inertia welding machine. The tooling weighs 300kg. Prior to automation the tooling was inserted using an overhead crane and webbing bands. It took 3 people to carry out the operation, and there were often pinch and strain injuries associated with tool changing. Following supplying the servo system pinch & strain injuries were reduced to zero and the tool change time reduced by 50%.



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

Product Index:

1	Production Support Equipment	5
2	Lifting Equipment	6
3	Fixed and Mobile Working Platforms.....	7
4	Inspection.....	8
5	Flow Racks and Conveyor Systems.....	9
6	Jigs and Fixtures	10
7	Trolleys	11
8	Stillages	12
9	Racks	13
10	Storage	14
11	Workstations	15
12	Extraction and Cooling.....	16
13	Monitors and Load Testing	17
14	Post Manufacture Modifications.....	18
15	Site Installations.....	19

Call 0844 209 0006 for a free site visit.



Creative Engineered Solutions
www.AcresEngineering.co.uk

Design, Manufacture, Assembly & Test
Automotive - Aerospace - Power - Rail



1 Production Support Equipment



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process



Creative Engineered Solutions
www.AcresEngineering.co.uk

Design, Manufacture, Assembly & Test
Automotive - Aerospace - Power - Rail



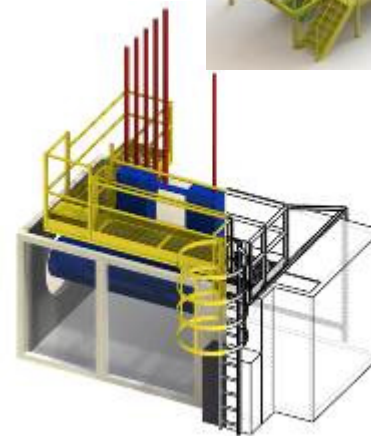
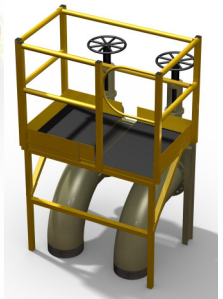
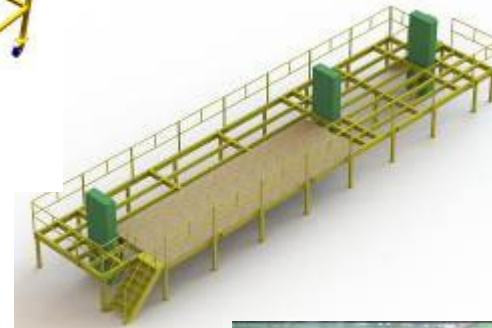
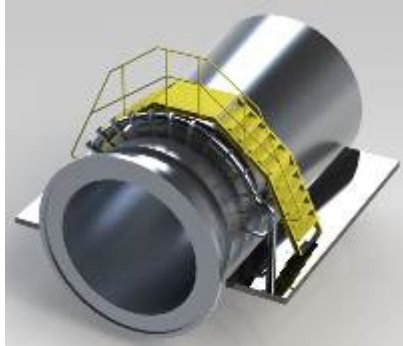
2 Lifting Equipment



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

3 Fixed and Mobile Working Platforms



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

4 Inspection



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

5 Flow Racks and Conveyor Systems



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

6 Jigs and Fixtures



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

7 Trolleys

Design, Manufacture, Assembly & Test

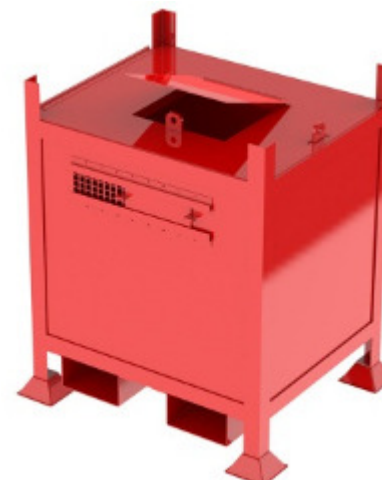
Automotive - Aerospace - Power - Rail



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

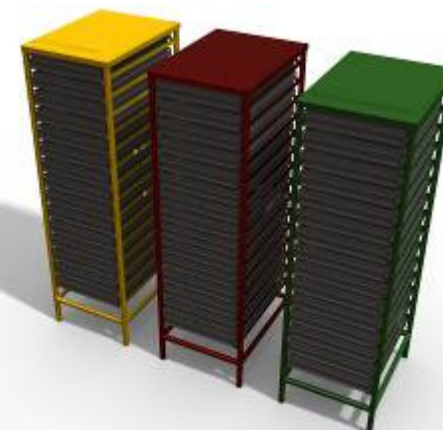
8 Stillages



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

9 Racks



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

10 Storage



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

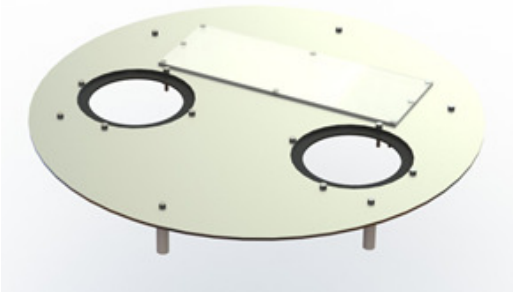
11 Workstations



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

12 Extraction and Cooling



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

13 Monitors and Load Testing



- Flexible
- Responsive
- Bespoke
- Innovative
- Lean manufacturing solutions within the Kaizen continuous improvement process*

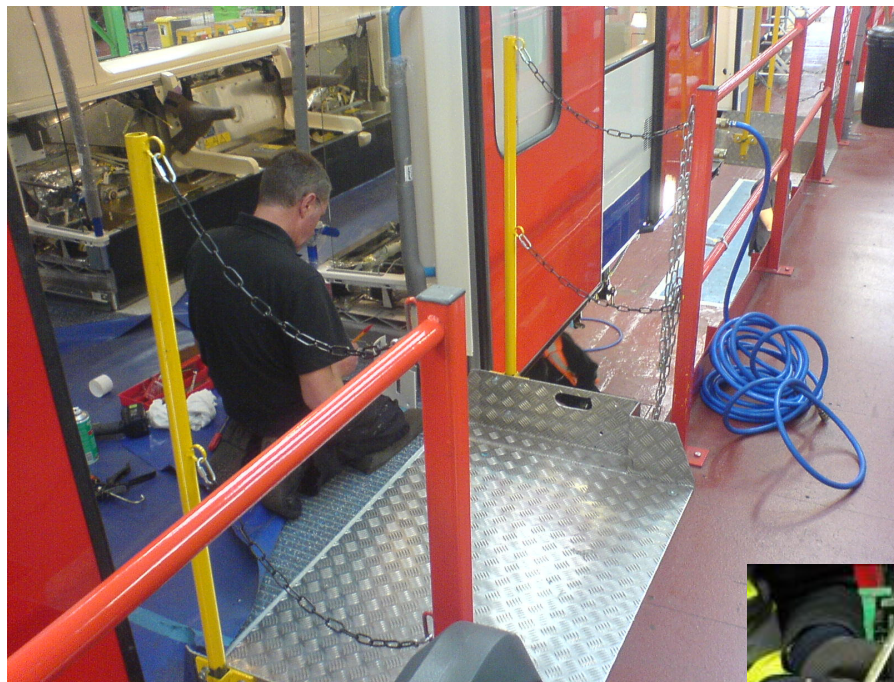
14 Post Manufacture Modifications



- Flexible
- Responsive
- Bespoke
- Innovative

Lean manufacturing solutions within the Kaizen continuous improvement process

15 Site Installations



- Flexible
- Responsive
- Bespoke
- Innovative
- Lean manufacturing solutions within the Kaizen continuous improvement process*