An Introduction to TR Fastenings

“Holding the World together”

Leading global specialists in the design, engineering, manufacture and distribution of high quality industrial and Cat C fastenings principally to major global assembly industries

www.trfastenings.com

Edition 4
Introduction

Holding the world together.

TR Fastenings Ltd (TR) is part of Trifast plc and is a global specialist in the design, engineering, manufacture and distribution of high-quality industrial and Cat C fastenings principally to major global assembly industries.

The TR Group consists of 32 business locations within the UK, Asia, Europe and the USA including eight high-volume, high-quality and cost-effective manufacturing sites. We supply components to over 5000 companies globally across a wide range of industries.

As a full-service provider to multinational OEM’s and Tier 1 companies operating several sectors, we deliver comprehensive support to our customers across every requirement, from concept design through to technical engineering consultancy, manufacturing, supply management and global logistics.

Europe
- TR Fastenings - Holland
- TR Fastenings - Hungary
- TR Fastenings - Ireland
- TR Fastenings - Norway
- TR Fastenings - Poland (Representative)
- TR Fastenings - Slovakia (Representative)
- TR Fastenings - Sweden (Mjölby & Tidaholm)
- TR Fastenings España - Spain
- TR VIC (Viterie Italia Centrale) - Italy
- TR Fastenings Germany - Germany

USA
- TR Fastenings - Houston

Asia
- TR Fastenings Asia Headquarters - Singapore
- TR Fastenings - Japan (Representative)
- TR Fastenings - China (Shanghai & Beijing)
- TR Fastenings - India (Bangalore, Pune & Chennai)
- TR Fastenings - South Korea

Technical & Innovation Centres
- TR Fastenings - Gothenburg, Sweden
- TR Fastenings - Birmingham, UK
- TR Fastenings - DJOAR - South Carolina, USA

UK
- TR Fastenings Ltd HQ - Uckfield
- TR Fastenings - Uckfield
- TR Fastenings - Birmingham
- TR Fastenings - Manchester
- TR Fastenings - Newry
- TR Fastenings - Poole
- Lancashire Fastener Co - Lancaster
- Precision Technology Supplier Ltd - East Grinstead
Manufacturing

Dedicated to producing high volume parts specifically to customer drawings.

Our strategic partnerships with other major manufacturers allow us to offer a wide range of special parts, including:

- Cold headed products
- Complex multi stage forging
- Special parts to customer drawing
- Turned and machined parts

Our manufacturing network spans two continents and represents approximately a third of the Group’s business.

We can ensure parts are made in the right part of the world to meet your quality, volumes, cost and delivery needs.

- 8 factories
- In-house heat treatment facilities
- Automated optical sorting facilities
- Specialised packing capability

Annual output approximately 8 billion parts

TR SFE (Taiwan) x 2
TR Formac (Singapore)
TR VIC (Italy)
TR PSEP (Malaysia) x 2
TR Formac (Malaysia)
TR Hank (UK)
We supply components to over 5000 companies globally across a wide range of industries. We are a major supplier to the automotive, electronics and domestic appliance sectors, and have a robust business model for large OEM’s and SME’s.

TR has the ability to meet customer requirements through the extent of our portfolio and scope of our quality certification. In addition to an extensive range of standard and branded fasteners, a large part of what we supply are to customer drawings, special parts and Cat C components.

Sectors we supply

Automotive
- Interior Trim
- Seating
- Braking & Steering Systems
- Lighting Clusters
- Chassis & Body in White (BIW)
- Safety Systems
- Powertrain
- Automotive Electric Vehicle
- Battery Pack Modules (EVB)
- Electric Vehicle Charging Units

Electric Vehicle
- Mobility/ Electric Buses
- Electric Vehicle Charging Posts

Electronics & Telecoms
- Telecoms/ Network Technology
- Lighting (HV & LV)
- Home Automation
- Consumer Products
- Medical Technology
- Lighting

Sheet Metal
- Soft Touch
- Hard Bumpers
- Cage Nuts
- V Series Nuts
- Metal Products
- White Boards & Panel Kits

Other
- Medical
- Leisure
- Marine
- Rail

Domestic Appliances
- Hot | Wet | Cold
- Small Appliances
- Catering
- Special Components
- Domestic Appliances
- Catering

General Industrial
- Heavy Equipment
- Industrial Products
- Construction Equipment
- Heat Exchangers
- Energy Meters

Aerospace & Defence
- Aircraft/Spacecraft
- Parts
- Aircraft Parts
- Engines
- Propulsion

Self Clinch | Rivet Bushes | Cage Nuts | K Series Nuts | Weld Products | Blind Rivets & Rivet Nuts

Industry

We supply components to over 5000 companies globally across a wide range of industries. We are a major supplier to the automotive, electronics and domestic appliance sectors, and have a robust business model for large OEM’s and SME’s.

TR has the ability to meet customer requirements through the extent of our portfolio and scope of our quality certification. In addition to an extensive range of standard and branded fasteners, a large part of what we supply are to customer drawings, special parts and Cat C components.
As a full service provider we are able to assist in reducing the total cost of ownership for companies by working with them from early engineering and design stage, right through to specification, manufacturing, quality and logistics.

We adopt a three-tier approach that includes local, national and international teams. TR understands that a global solution creates some challenges, including communication, culture and security.

TR’s global delivery model has been designed from the ground up to address these challenges. Most importantly, our global delivery operations provide customers with both the quality and economic advantages that they require.

Benefits:

- Dramatically reduced vendor base and associated administration costs.
- TCO - Total Cost of Ownership visible.
- Inspection costs reduced as quality approved parts can be shipped direct to the production line.
- Reduced cost of stockholding and storage as only a few days’ stock is held on the production line.
- Production is allowed to focus on its core function as parts are always available at the point of use.

A Typical TR DLF System

1. Production takes stock from bins
2. On agreed day, TR DLF operator visits customer
3. TR DLF operator scans all bins that need replenishing
4. TR DLF operator delivers stock and replenishes bins
5. TR DLF operator removes empty bins off site and returns to TR location
6. TR installs racks and bins directly into production area

Locations in 18 countries
Supply into 75 countries

Initial stock is supplied

Locations in 18 countries
Supply into 75 countries

Initial stock is supplied
Design, Engineering & Quality

Design and engineering

Our research and engineering capabilities encompass specific engineering disciplines, supporting both our own network and customer application solutions. Our fastener testing capabilities can be summarised into four categories:

- Mechanical
- Dimensional
- Installation
- Plating and finishes

Desktop engineering in 2D and 3D industry standard CAD software:

- CAD system
- 3D mechanical design solutions
- 3D modelling
- Analysis tools
- Data management solutions
- Drawing and specification, creation and control

Quality

Our aim is to provide a level of product quality that prevents the production of non-conforming fasteners, with the objective of approaching zero defects for specified characteristics.

Customer specific quality standards can also be provided as required. The means of achieving these higher quality standards include: electronic PPAP, supplier development, strategic sourcing as well as camera, laser and roller sorting.

TR Quality

Quality Management System
ISO 9001
IATF 16949

Environmental Standards
ISO 14001

Research & Development (including patents)
CAD Design & Development (including 3D modelling)
Prototype & Testing (including 3D printing)
Innovative Manufacturing Processes
Technical & Innovation Centre