

INDUSTRY IN FOCUS:

OFF-HIGHWAY

We support off-highway OEMs and Tier suppliers across construction, earthmoving and mining with a reliable supply of durable, corrosion-resistant and vibration-resistant fasteners, C-class components and engineered specials built to withstand the most demanding off-road operating environments.

Company Overview

100+	Years of expertise	1,200+	Global suppliers	1,500+	Global customers
750	Members serving globally	2.2 Bn	Parts supplied annually	40K+	SKUs supplied annually
365	Days a year support	0	Defect culture		



APAC • Europe • UK

11 distribution facilities across 7 countries

Industry-Specific Equipment We Support

- Chassis, Undercarriage and Powertrain
 - Structural Chassis, Frames and Articulation Joints
 - Engine, Powertrain and After-Treatment Systems
 - Transmission, Driveline and Axle Systems
 - Track and Undercarriage Systems
 - Steering, Braking and Final Drives
 - Fuel, Exhaust and Emissions Systems
- Operator Cab, Body and Structure
 - Operator Cabs, Canopies and ROPS/FOPS Structures
 - Body Panels, Guards and Access Systems
 - Interior Trim, Seating and Operator Controls
 - Glazing, Mirrors and Vision Systems
 - Counterweights and Ballast Assemblies
 - Cooling, HVAC and Ancillary Systems
- Hydraulics, Implements and Attachments
 - Hydraulic Cylinders, Valves and Manifolds
 - Booms, Arms, Dippers and Loader Linkages
 - Buckets, Blades and Ground-Engaging Tools
 - Attachments and Quick-Hitch Systems
 - Power Take-Off and Auxiliary Drives
 - Wear Parts, Cutting Edges and Guarding
- Electrical, Safety and Electronics
 - Machine Electrical and Wiring Systems
 - Battery and Electric Drive Systems
 - Lighting, Signalling and Visibility Systems
 - Telematics, Controls and Machine Monitoring
 - Alarm, Safety and Operator Protector Systems
 - Corrosion Protection and Earthing Systems

Relevant Product Range

- Fasteners and Threaded Products

Hex bolts, flange bolts, plough bolts, track bolts, U-bolts, structural bolts, socket screws, set screws, studs, threaded rods, nuts and washers.
- Materials and Finishes

High-tensile steel (property classes 8.8, 10.9 and 12.9), stainless steel, aluminium, brass and engineered polymers, with zinc-nickel, zinc-flake (including Geomet®), galvanised, phosphate, anti-galling and application-specific corrosion-resistant coatings.
- Retention, Sealing and Vibration Control

Locknuts, prevailing torque nuts, wedge-lock washers, retaining systems, thread-locking solutions, lockbolts, sealing washers, bonded seals, gaskets, O-rings, anti-vibration mounts and mechanical retention products.
- C-Class Components

Pins, clevis pins, spring pins, circlips, retaining rings, spacers, bushes, rivets, rivet nuts, clips, clamps, cable ties, grommets and cable management.
- Engineered Specials

Custom cold-forged and machined fasteners, turned parts, application-specific fasteners, make-to-print components and engineered assemblies.
- Hydraulic and Fluid System Components

Hydraulic and pneumatic fittings, adaptors, hose fittings, high-pressure and quick-release couplings, pipe plugs, sealing plugs, compression fittings and associated sealing components.

Supply Chain Assurance

- Inventory management, kitting, Vendor Managed Inventory (VMI) and production line replenishment.
- Supplier qualification and performance management across off-highway OEM and Tier supply chains.
- Supply continuity and demand planning through cyclical and seasonal production volumes.
- Secure handling of customer drawings, specifications and technical data.
- Certificates of Conformity and material certification.
- Obsolescence management for legacy and current equipment platforms, supporting fleets with long service lives and aftermarket demand.
- Customer-specific compliance support, sustainability requirements and regulatory documentation.
- Supplier consolidation and risk reduction across C-class components and indirect spend categories.
- Quality documentation, inspection support, first article inspection and PPAP where required.
- Batch and lot traceability for structural and safety-critical components.
- Global sourcing and logistics support to improve availability and reduce lead times, including large-diameter structural and track bolts.

Construction OEM Case Study

Leading construction-machinery manufacturer

- Engineering expertise improves machine efficiency and delivers cost savings.

Optimas International walked the customer's production line, identified clear opportunities to streamline the assembly process and removed unnecessary steps.

Optimas International local quality laboratories played a crucial role in validating the fastening solution, helping to deliver reliable corrosion resistance and frictional consistency that met technical expectations without compromising durability.

Environment Capabilities

Shock and Dynamic Load Resistance

Locking and retention systems for joints exposed to transverse vibration, shock and cyclic loading across undercarriage, articulation joints, booms, linkages and engine mounts.

Heat, Cold and Temperature Extremes

Material, grade and coating selection for operation from sub-zero sites to engine, exhaust and after-treatment heat, helping maintain clamp load, retention and sealing performance.

Mud, Salt and Corrosion

Zinc-nickel, zinc-flake and stainless solutions for construction, quarry, mining and farm environments, resisting moisture, mud, road and de-icing salts, fertilisers and hydraulic fluid exposure.

30% | Assembly cost reduction

10% | Cab weight saving

Key Account Growth

Off-Highway OEM

35+ years of partnership

- Accounts grown by 15x
- SKUs increased by 275%
- Net sales increased over 10x

Power Generation OEM

30+ years of partnership

- Facilities grown by 11x
- SKUs increased by 1,100%
- Net sales increased over 23x

Value-Added Services

Global Presence, Local Support:

We help customers maintain consistency, reliability and speed across their operations through our global and local expertise.

Supply Chain Risk Mitigation:

We empower supply chains through strategic sourcing, strong supplier networks and proactive planning.

Bespoke Engineering:

Our expertise enables us to deliver fastening solutions tailored to meet specific manufacturing requirements.

Smart BOM Management:

By improving standardisation, reducing complexity and cost, we simplify BOM management, supported by OptiSpec®.

OptiTech® - Smart Inventory Solutions:

Using tech-enabled VMI programmes and real-time visibility tools, we help customers streamline operations, improve forecast accuracy, automate replenishment and maintain reliable stock levels.

Why We Do What We Do

Optimas International combines advanced engineering expertise, inventory management systems and global sourcing to simplify complex supply chains. We deliver scalable solutions that reduce total cost of acquisition and drive long-term value for our customers. In today's complex business environment, companies need a partner that mitigates risk and supports sustainable growth. We do this by:

Making Every Connection Count.

