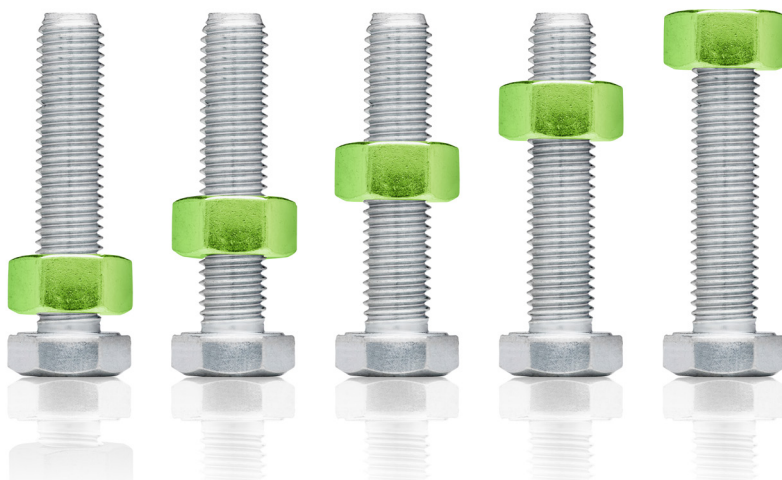


CASE STUDY:

UNEARTHING COST AND PERFORMANCE EFFICIENCIES IN EXCAVATOR DESIGN

MAKING EVERY CONNECTION COUNT



Accelerating Efficiency

Optimas International delivered a unified corrosion-prevention and friction-consistency strategy for a new excavator line, while driving major cost efficiencies. With our support, the customer achieved over 30% savings in assembly process time and a lighter, more efficient cab design.

Real Results, Real Impact

30%

Assembly cost
reduction

10%

Cab weight
savings

Challenge

Supporting cab weight and cost reduction

A leading construction-machinery manufacturer set out to reduce cab weight on its latest excavator model. The goal was simple: Improve machine efficiency and deliver several hundred euros of added value per unit. This required a smarter approach to fasteners, materials and assembly.

Solution

Optimas International engineers were engaged early in the design phase to apply deep expertise from concept through to quality and durability testing. By walking the customer's production line:

Our local quality laboratories played a crucial role, ensuring the new approach met all technical expectations without compromising durability.

Our team identified clear opportunities to streamline the assembly process and remove unnecessary steps.

They validated a fastening solution that delivered reliable corrosion resistance and the frictional consistency required for long-term performance

Results

Our engineers reduced costs by more than 30%, and the refined fastening strategy enabled a 10% reduction in cab weight.

Generation of cost savings far beyond the original BOM

Strengthened overall excavator performance

ABOUT US

Optimas International is a tech-enabled industrial distributor providing fasteners, components, inventory management and supply chain solutions across APAC & EMEA. Partnering with domestic and global manufacturers, the company delivers bespoke, engineering-led and technology-enabled programmes designed to improve efficiency, quality, supply chain resilience and profitability for its customers.

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