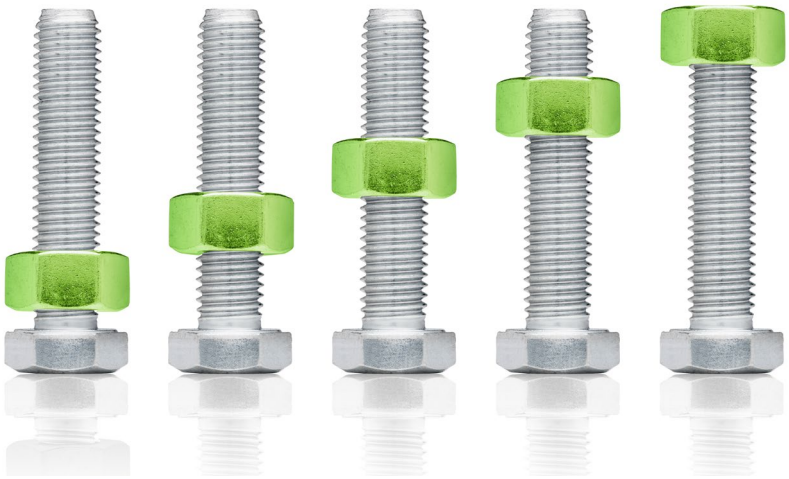
CASE STUDY:

Keeping Tunnel Production on Track

MAKING EVERY CONNECTION COUNT



Tunnel Infrastructure | MABA Fertigteilindustrie GmbH

Optimas International partnered with long-standing client, MABA Fertigteilindustrie GmbH, to optimise the production of precast concrete tunnel segments for the extension of Vienna's U2 underground line. Our Tunnel division helped MABA simplify its manufacturing process, reduce waste and minimise the risk of costly mould damage across a high-volume production programme.

Real Results, Real Impact

17K

Tunnel Segments Manufactured

2,850

Complete Tunnel Rings

1

Manufactured Process Elimated

Challenge

The extension of Vienna's U2 underground line, a major public transport infrastructure project, required thousands of precision-manufactured precast concrete segments to form the tunnel lining. Our customer, MABA Fertigteilindustrie GmbH, the precast concrete division of the Kirchdorfer Group, manufactured 17,000 segments for the project, equivalent to 2,850 complete rings. To support a production programme of this scale, MABA needed a reliable method of installing cast-in tunnel accessories that would ensure consistent quality, streamline manufacturing and minimise the risk of costly damage to its segment moulds.

Solution

Drawing on our specialist knowledge of tunnelling applications and our long-standing relationship with MABA, our Tunnel team worked closely with the customer to understand the manufacturing process and identify where it could be improved. With thousands of segments to produce, simplifying each production cycle presented an opportunity to improve efficiency and reduce operational risk.

"We selected Optimas International primarily because of the OPTI.Fix® system, which allows us to work more economically. It eliminates one work step in the process and also improves quality. Our experience with Optimas International has been very positive. We are very satisfied with [the work]. Given the opportunity, we would certainly be happy to work together on future projects."

Norbert Stricker
Technical Project Manager
MABA Fertigteilindustrie GmbH

We introduced our OPTI.Fix® system to simplify the installation of tunnel accessories within the segment mould. Conventional fixing bolts or holders required an additional removal step during production. OPTI.Fix® eliminated this step, which streamlined the manufacturing process and reduced the risk of accidental mould damage.

Rather than substituting one component for another, the solution addressed a specific production challenge. By considering how the fixing system interacted with the wider manufacturing process, our Tunnel team helped MABA adopt a simpler, more repeatable approach to segment production.

This collaborative, application-led approached combined our product expertise with a practical understanding of MABA's operational requirements.

Results

The introduction of OPTI.Fix® helped MABA improve the efficiency and reliability of its tunnel segment production.

Simplified production: Eliminated an additional removal step from the manufacturing process.

Reduced waste: Lowered the potential for material waste caused by production errors and rework.

Reduced equipment risk: Minimised the risk of costly mould damage caused by fixing elements left in place.

Improved process consistency: Supported a simpler, repeatable approach to segment manufacturing.

Improved cost efficiency: Helped reduce avoidable costs and operational disruption.

Across a programme of 17,000 tunnel segments, these improvements contributed to a more efficient and economical approach to manufacturing.

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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