

# UniPrep® ISOtect

## Specialized oil elimination equipment



General metal finishing

Paint support technology

atotech.com

## A superior approach to degreasing

### High oil loading – a hardship for applicators

A natural by-product of cleaning a stamped or formed metal part is the introduction of oil into the degreasing solution. Typically, conventional degreasers have a limited, often short solution life due to the organic soils removed during the cleaning process. The low oil loading capacity causes several inconveniences for applicators: decreased cleaning performance as the solution ages, increased waste for disposal or wastewater treatment, higher chemical cost, and increased maintenance requirement.



### A systems approach to long life cleaning

UniPrep® ISOtect is a specialized equipment that, when used in combination with UniPrep® long life cleaning processes, improves the efficiency of oil degradation. UniPrep® ISOtect is suitable for use in all UniPrep® long life cleaning applications but is especially effective in high oil loading applications. Degradation of the oil in a UniPrep® long life cleaner ensures a far longer solution life than that of conventional cleaners. UniPrep® ISOtect offers a turnkey solution that decreases maintenance requirements, chemical consumption, and overall operating cost.



### Features and benefits

- Supports extended solution life when paired with UniPrep® long life cleaners, ideal in high oil loading applications
- Promotes improved cleaning consistency and finished part quality through reduction of oil in the UniPrep® longlife cleaner solution
- Simplifies maintenance and wastewater treatment requirements, improving facility efficiency
- No consumable materials used to support in situ oil degradation (reusable filling material)
- Overall process cost reduction achieved through lower chemical consumption and waste generation

# Stable high cleaning performance

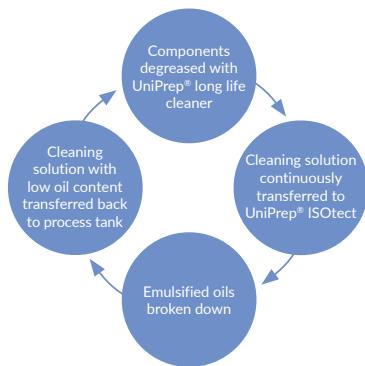


Fig. 1:  
Process cycle with UniPrep® ISOtect

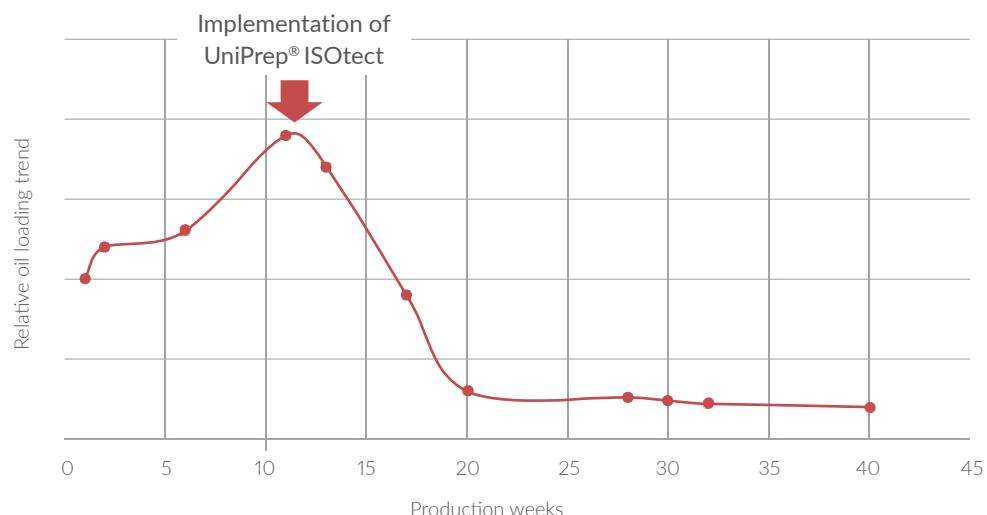
## Extended solution life and reduced waste

UniPrep® ISOtect offers applicators a low-maintenance tool to further extend solution life. Unlike traditional oil separators, UniPrep® ISOtect does not create an oil-based waste that must be treated or disposed. Instead, it breaks down the oils in the cleaning solution, creating a simplified waste stream for treatment.

## Decreasing oil content in standard production

The implementation of UniPrep® ISOtect at a customer's production facility exhibits the benefits of the equipment in combination with UniPrep® long life cleaners. The result is a cleaning solution that has significantly less oil than a conventional cleaner, offering longer solution life and more consistent cleaning performance.

## Oil content of degreasing solution



The above graphic exhibits how one customer was able to reduce the amount of oil in the cleaning solution by as much as 90%. The oil reduction amount is dependent on several production parameters and results may vary.

