

# Household appliances

Sustainable solutions for  
white goods manufacturers

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General Metal Finishing

Functional and decorative coatings  
Paint support technology

atotech.com



# Comprehensive and sustainable surface finishing solutions

For the white goods industry, Atotech offers a truly comprehensive product range for both painted and plated surfaces. Our process solutions ensure the prolonged service life for household appliances.

Atotech is dedicated to developing processes and products that conserve natural resources such as water and energy, minimize or eliminate waste generation, and reduce operating costs. In providing innovative processes, Atotech paint support technologies enable corporations to achieve sustainability initiatives and to reduce CO<sub>2</sub> footprint, supporting the attainment of carbon neutrality. Our paint pretreatment and paint removal solutions provide a truly superior approach for the white goods industry.



## Paint pretreatment processes

Achieving optimal finished part quality requires high performing substrate cleaning and conversion coating to ensure superior paint adhesion and corrosion resistance. Atotech economical paint pretreatment solutions meet the industry's high-performance standards while complying with increasingly stringent environmental regulations. Atotech pretreatment processes also provide a multi-metal solution where needed, offering white goods manufacturers a greater level of versatility.

**UniPrep®:** Long life and low temperature cleaning and degreasing solutions

**UniPrep® ISOtect:** Specialized oil elimination equipment supporting UniPrep® long life, low temperature cleaners

**Interlox®:** Phosphorus-free, multi-metal zirconium pretreatments



## Paint stripping technologies

Ensuring optimal contact cleanliness provides higher powder paint transfer efficiency, allowing for improved production quality while supporting reduced paint usage. From rack and hook cleaning to finished part reclamation, Atotech paint removal systems are the ideal in-house paint removal solution. Our paint removal processes provide white goods manufacturers a cost effective, safe, and sustainable alternative to conventional mechanical, thermal, and hazardous air pollutant (HAP) containing chemical methods.

**Master Remover®:** Sustainable paint removal solutions that offer efficient and consistent performance while reducing operating costs

**Master Remover® ESPRIT:** Specialized equipment designed to optimize Master Remover® process capabilities

Plated components require a robust surface to withstand frequent use while providing an attractive finish. MKS' Atotech range of decorative and functional plating technologies are designed to meet the industries demands.



### Decorative coatings

Atotech decorative chrome solutions for plastic and metal applications provide durability and attractiveness for heavily used components like knobs, door trims, drawer fronts, or handles. Our sustainable series of Cr(VI)-free solutions from plastic pretreatment, nickel plating to plus trivalent chromium decorative coatings and post treatments, offer a wide range of colors and designs for satin or lustrous surfaces, creating cohesive interior living aesthetics that are in line with modern design concepts.

**Covertron®:** Cr(VI)-free plastics pretreatments

**TriChrome®:** Trivalent chromium plating which expands the choice of colors and finishes

**TriSeal®:** Cr(VI)-free post-treatment processes for TriChrome® finishes for enhanced corrosion protection



### Corrosion protection coatings

Exposure to high temperature and humid environments, like those for gas cook tops, air conditioners and washing machines require excellent corrosion protection, chemical resistance and stability. With our zinc, zinc nickel and zinc flake coating finishes, Atotech corrosion protection systems achieve the required performance from white goods manufacturers.

**Zinni® 220 + EcoTri® NC + Zintek® Top XT :** System with stainless steel appeal, passing 120 cycles of Prohesion cyclic corrosion test

**Zylite® Eco + Tridur® Blue + Friction Additive IX:** System for self-tapping screws achieving the lowest possible friction for drilling into powder coated steel



### Wear resistant coatings

Various components in household appliances require both excellent wear and corrosion resistance, critical for durability and longevity. Our electroless nickel coatings provide outstanding corrosion protection to units used in wet conditions, such as ice cube machines, food processing equipment and refrigeration devices. Our trivalent hard chrome process lends superior wear resistance to frequently handled dynamic parts and those in contact with various substances such as cutting blades, shafts, or scratch resistant surfaces.

**BluCr®:** Trivalent hard chrome technology

**Nichem® MP 400:** Ultra-bright mid phosphorus electroless nickel process

**Niflor® HP 118:** Electroless nickel composite coating providing a non-stick surface

**Nichem® HP 1170:** High phosphorus process for superior corrosion protection

**Alumseal® 611:** Advanced zincate process for plating on aluminum

# MKS' Atotech offers a full range of sustainable, functional and decorative processes



## Our appliance competency

Reliable, high-quality processes, equipment, and chemistry for the entire spectrum of functional and decorative surface treatments, which meet the needs of the household appliances industry.



## Global presence

With a global presence in more than 40 countries, MKS' Atotech is the approved choice of OEMs and Tiers worldwide. You can expect nothing less than first-class service and customer support.



## Best local service

MKS' Atotech currently has 13 Tech-Centers forming a global network that provides efficient customer support, from pilot production, chemical and materials science investigations, and process qualifications, to train customers and partners.



## Leading technologies

R&D is the backbone of our success. We regularly work directly with end customers and OEMs to co-develop new ideas that drive product innovation.



## Production know-how

Paired with our broad production know-how, our highly skilled personnel and manufacturing capabilities make us the trusted partner within our industry.



## Sustainable solutions

Our processes comply with the latest environmental legislation. MKS' Atotech sustainable solutions are free of many hazardous and regulated compounds as well as use water, energy, and raw materials efficiently.

