

Battery solutions

Parts reclamation and fixture cleaning



General Metal Finishing

Product portfolio

atotech.com

Sustainable paint and flame-retardant coating removal solutions



Fig. 1: Master Remover bath
Fig. 2: Dry-waste leftover from Master Remover stripping process
Fig. 3: Steel fixtures cleaned with Master Remover

Applying flame-retardant powder paint onto the module covers poses economic challenges for paint applicators because the components are expensive to produce. Thus, defective parts must be reclaimed.

Sustainable coating removal for high-value aluminum alloys

We have identified the ideal processes to provide sustainable and environmentally friendly paint or flame-retardant removal with a unique etch-free finish for aluminum. With the highest performance level, our systems ensure that aluminum components remain unetched, eliminating costly secondary operations such as re-machining, laser engraving, etc. Atotech Master Remover® processes offer superior aluminum surface cleaning without dulling machined or polished parts.

Our solutions are free of hazardous chemicals like methylene chloride, phenol solvents, and NMP (N-Methyl-2-pyrrolidone), reducing waste management burden and operators' health hazards. Our unique, sustainable solutions allow for long life to no dump possibilities, with minimal waste (sludge and fluids) generated. Their low energy demand, low emission, and low waste generation strongly support carbon footprint reduction.

Sustainable coating removal for paint aids tools and fixtures

Due to its rapid paint and flame-retardant removal operation, the paint removal solution allows for rapid paint aids turnaround, reducing the volume of required fixtures by 2 to 3 times. The process' unique substrate preservation capabilities considerably reduce the need for repairs and replacement. Due to its high performance, the Master Remover process strips off coatings at 100% first-pass and eliminates the need for secondary operations saving labor costs and contributing to yield improvement by returning 100% clean fixtures to the production line. This will drastically reduce the risk of carrying dirt and debris throughout the line.

Efficient and sustainable integrated paint removal technology

Master Remover solutions are specially designed to operate at low temperatures and have low specific heat requirements for further energy savings. Due to their unique and effective filtering capacity, they outlast conventional paint stripping products.

Master Remover solutions reduce waste treatment burdens, lower energy consumption, and improve the overall carbon footprint, offering a highly sustainable, economical solution to replace conventional stripping processes.

An easy and rapid integration of the sustainable paint removal processes is possible by simply implementing **Master Remover ESPRIT** and/or **ESPRIT C** equipment. Master Remover ESPRIT systems are pre-assembled units, specially designed to achieve the highest level of performance with the highest sustainability benefits to maximize carbon footprint reduction.

Features and benefits

- Long life solution
- Low temperature operation
- Consistent performance throughout solution life
- Reduced waste treatment burden
- Very fast and etch-free coating removal
- Reduced energy consumption

Features and benefits

- Pre-assembled turnkey solution
- Fast in-house integration
- Robust equipment offering consistent process performance
- Easy to use
- Allows long life, low waste, and low energy



Fig. 5: Master Remover ESPRIT 2600



Fig. 6: Master Remover ESPRIT C270

