

**MIRKA**

# Surface Finishing in the Modern **Aerospace Industry**

Reach New Heights With Mirka's Solutions

## Abrasives



[mirka.com](http://mirka.com)

## Power Tools



## Polishing Compounds





## READY FOR **TAKEOFF?**

Aircraft components need to perform under the most demanding conditions. We're talking extreme temperature variations and constant exposure to moisture, salt and other corrosive agents. In short, aircraft parts have to withstand any test time or the unforgiving elements will throw at them.

In order to do so, your components require meticulous surface treatment. Even the tiniest imperfection or scratch can become a stress point where friction or corrosion builds up over time, and rust or failure ensues.

With Mirka's premium abrasives, power tools and automation solutions, you'll reach your surface finishing goals faster and with better results.

## BOOST YOUR BASE MAINTENANCE **SUSTAINABLY**

Achieving a low-carbon operation isn't easy, but it's a necessary goal for any company aiming to stay competitive in the aviation industry. At Mirka, we have a passion for innovation and a mission to give people the opportunity to perform better with a smaller environmental impact.

effective and have a longer lifespan than traditional abrasives. Additionally, with our global service network, you have access to service and spare parts that facilitate cost-effective and sustainable operations, extending the life cycles of both machines and consumables.

Science Based Targets initiative (SBTi). We report our sustainability practices through EcoVadis and the Carbon Disclosure Project (CDP), and we actively lead the Sustainable European Abrasive Manufacturers (SEAM) program.

You can achieve more sustainable base maintenance by choosing Mirka's dust-free surface finishing solutions. Our products are proven to be more

Opting for Mirka is a smart way to future-proof your value chain. We are committed to reducing our environmental footprint and have signed the



Read more about our commitment to sustainable best available technologies on our website: [mirka.com/en/sustainability/](https://mirka.com/en/sustainability/)

# EXTERIOR



## APPLICATIONS

- Paint removal
- Surface preparation
- Removal of oxidation and pits
- Dent and scratch removal, post-corrosion smoothing

### Paint Removal and Surface Preparation

For paint removal or surface preparation on composite or aluminium surfaces, we recommend using Abranet® or Mirka Iridium™ abrasives, grit 220–320.

### Corrosion Removal

Use Mirlon Total® or Abranet® grit 320–400 to remove oxidation and shallow corrosion pits that are more than 0.025 mm (0.001") deep. For deeper corrosion pits and flaking up to 2.5 mm (0.10") deep, use Abranet, grit 120–220.

### Dent and Scratch Removal, Post-Corrosion Smoothing

Blend-out repair, dent or scratch removal and post corrosion smoothing is best tackled using Abralon®, Abranet® Soft or Goldflex Soft.



# INTERIOR



## APPLICATIONS

- Preparation for refinishing and repair
- Oxidation cleaning and repaint preparation

### Preparation for Refinishing and Repair

Prepare everything from floorboards to interior panels for refinishing or repair by hand sanding, using Abranet® or Goldflex Soft, grit 220–400.

### Oxidation Cleaning and Repaint Preparation

Clean and prepare your aluminium or steel brackets or interior frames using Mirka's non-woven, resin-bonded abrasive Mirlon Total®.



# COMPONENTS

## APPLICATIONS

- Clarity restoration
- Corrosion removal and paint repair preparation
- Cleaning rust and pitting
- Coating preparation
- Paint removal



### Restoring Clarity to Lights

UV rays and physical abrasion can cause lights to become faded over time. Restore their clarity using Mirka's Abralon® abrasive and polish with the Polarshine® polishing compounds.



### Polycarbonate Polishing and Windshield Reconditioning

Save money by restoring windows instead of replacing them. Start with sanding using Abralon® abrasives grits 360, 500, 600 and 1000 consecutively. You can choose freely between wet and dry sanding, and you can start with a coarser grit, like 180, if the scratches are deep. Wipe the surface clean before each sanding step and finish with polishing using Polarshine® polishing solutions.



### Corrosion Removal and Paint Repair Prep on Engine Accessory Housing

Use Mirlon Total® or Abranet® grit 320–400 abrasives when you are preparing your engine accessory housing for the paint repair. For tight spaces, we recommend using the FBS-B file belt sander with narrow belts and conditioning belts.



### Cleaning Rust and Pitting on Landing Gear, Dampers and Other Hardware

You are best served by a tough and long-lasting abrasive when you need to get rid of rust and pitting. Use Mirlon Total® or Abranet® to clean the surface and get a dense and perfectly even scratch pattern, or Abranet Max Flap Discs for more aggressive material removal.



### Coating and Paint Preparation on Wheel Hubs and Landing Gear

Mirlon Total® and Abranet® are great alternatives to glass bead blasting and other conventional methods for removing paint and corrosion from landing gear and wheel hubs.



# PRODUCT HIGHLIGHTS

## Abranet®

More than twenty years ago, Mirka introduced Abranet; an abrasive that features a net structure instead of the conventional paper backing. The net structure enables extremely efficient on-tool dust removal (99.97% removal of dust particles smaller than 0.3 µm in size) which improves both the work quality and the working environment.

Abranet changed the game in dust-free sanding, and it's as undisputedly effective now as it was revolutionary then.

## Mirlon Total®

Mirlon Total is a three-dimensional fibre abrasive developed for contoured surface conditioning, cleaning and finishing.

This strong, non-woven abrasive performs well on steel and other metals and alloys as well as plastics, lacquers, paints and primers, and synthetic materials.

## Iridium Soft

Mirka Iridium™ Soft is a soft foam-backed abrasive for dust-free dry sanding. It's highly clog-resistant and delivers a scratch pattern so fine and consistent that it allows you to reduce the number of sanding steps required to achieve a superior finish.

## Mirka® PROS and ROS Pneumatic Sanders

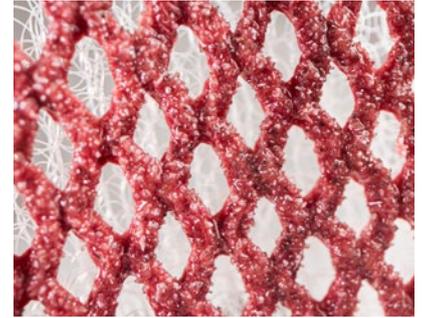
The Mirka PROS and ROS pneumatic sanders are designed for optimal dust extraction, even at low suction power, thanks to a wider dust suction outlet that enhances efficiency.

A key feature is the innovative 'brake seal,' which allows the backing pad to oscillate instead of spinning freely when the machine is held in the air. This eliminates deep marks on surfaces when the abrasive first contacts the job.

## Mirka® AOS-B and ANGOS Cordless Tools

The Mirka® AOS-B 130 is a small and energy-efficient spot repair sander with an award-winning ergonomic design. It's ideal for professionals who appreciate the freedom of movement of a cordless sander.

Grinding, sanding, weld cleaning, surface conditioning, cutting, deburring and paint removal – you can do it all with the compact Mirka® ANGOS. This compact grinding tool can be combined with a variety of accessories, depending on the task at hand.



reddot award 2017  
winner



# ABRASIVE TYPES FOR THE AEROSPACE INDUSTRY



## Paper-Backed Abrasives

Paper-backed abrasives are the most cost-effective option for basic sanding applications. **Mirka Iridium™** is Mirka's premium, paper abrasive for universal sanding. It has a mix of ceramic and aluminium oxide grains with precision coating that prevents clogging and reduces pilling.



## Film-Backed Abrasives

For wet sanding, the preferred choice is usually a film-backed abrasive, like the **Mirka® Galaxy**. Galaxy is a multi-purpose abrasive with self-sharpening ceramic grains that's great for various applications in aerospace surface finishing.



## Net Abrasives

When you want excellent dust extraction and cutting, your best bet is a net abrasive. The open mesh structure greatly reduces clogging and prolongs the lifespan of the abrasive.

Mirka is the original pioneer of net abrasives that introduced **Abranet®** – an abrasive that's been replicated multiple times but never surpassed.



## Non-Woven Abrasives

The primary benefits of non-woven abrasives are their flexibility and ability to conform to contoured and irregular shapes, as well as the controlled, even scratch pattern they create.

Mirka's non-woven products **Mirlon®** and **Mirlon Total®** are great all-round abrasives, perfect for matting, feathering and rust cleaning.



# EXPLORE THE BENEFITS OF MIRKA'S PRODUCTS



There are many reasons to choose Mirka.  
These are some of the things our customers enjoy:

- World-class abrasives, including patented products like Abranet®
- Consistency and reliability, whether it's in tool performance, product lifetime, or supply
- Sustainable abrasive options
- Timely localised support and seamless service

## ABOUT MIRKA

The Finnish family-owned company Mirka Ltd is a world leader in surface finishing technology and offers a broad range of ground-breaking sanding solutions for industrial applications.

We are relentless pioneers who maintain that if something is worth doing, it is worth doing well. This approach upholds the quality standard that our customers have come to expect and appreciate in our products.

Our premium sanding and polishing products and innovative power tools provide real benefits to customers in efficiency, surface finish quality and cost-effectiveness.



## FACTS

- **80+ Years of experience**
- **19 Subsidiaries**
- **9 Production facilities**
- **1,600+ Employees**

## CONTACT US

For more details about our products and services, get in contact with the Mirka office closest to you or visit our website, [mirka.com](http://mirka.com).



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