

## KNOWLEDGE IN SURFACE TREATMENT IN AUTOMATION

For more than 50 years, we have been working with industries around the world. Our many years of experience and the know-how of our experts make Dynabrade an exemplary leader in surface treatment.

Implementing a cobot to work alongside humans is a growing trend in the constantly evolving manufacturing industry. Using power tools to alleviate strenuous and repetitive work is a task that many manufacturers are willing to have a cobot take over to prevent work injuries and overworked employees.

## BOOST PRODUCTION AND QUALITY WITHOUT ADDING COMPLEXITY

Manufacturers seeking to improve quality and yield through automation are adopting cobot-based systems to perform a range of demanding quality control tasks. Combining the Dynabrade tools with the ACF-Kit from Ferrobotic on a cobot, we'll drastically lift up your production processes in a simple, reliable and flexible manner.

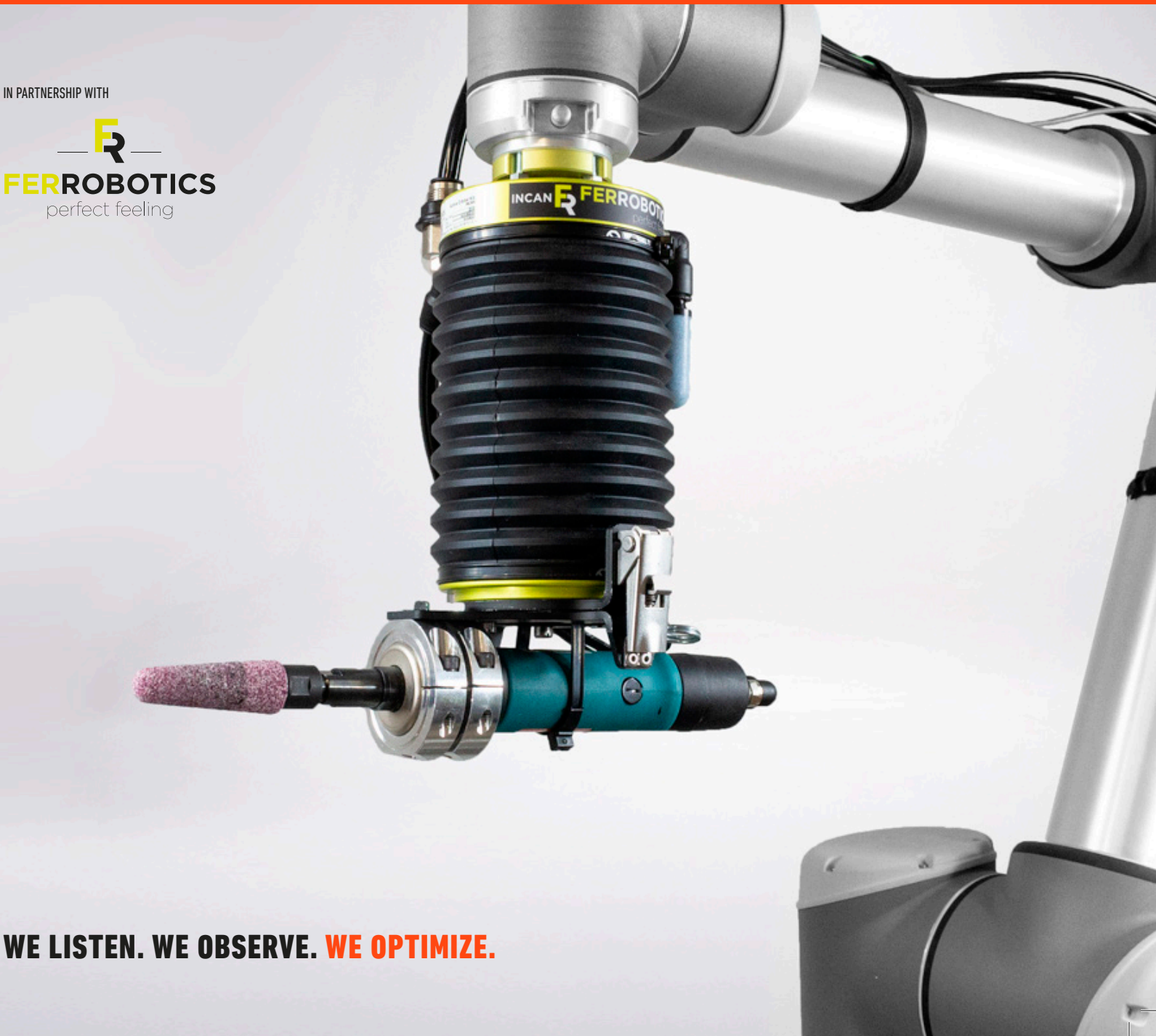
## COMBINE THE DYNABRADE PROCESS SOLUTIONS AND IMPROVE YOUR COST SAVINGS!











## OPTIMIZING SURFACE TREATMENT PROCESSES WITH COBOTS

## COST SAVINGS PROGRAM

QUANTIFYING  
THE VALUE WE ADD



### TARGETED INDUSTRIES

-  AEROSPACE & DEFENSE
-  AUTOMOTIVE OEM & TIER 1
-  MARINE & SHIPYARD
-  WELDING
-  WIND ENERGY
-  WOODWORKING
-  METALWORKING
-  AUTOMOTIVE AFTERMARKET

### SURFACE TREATMENT

- GRINDING
- SANDING
- POLISHING
- DEBURRING
- BRUSHING

### MATERIAL

- STEEL
- ALUMINUM
- TITANIUM
- MAGNESIUM
- CARBON
- PLASTIC
- WOOD
- CERAMIC

### 10 STEPS TO SAVE COSTS AND OPTIMIZE TIME.

DYNABRADE PROVIDES THE SERVICE OF DOCUMENTING COST SAVINGS TO IMPROVE OUR CUSTOMERS PROFITABILITY AND STRENGTHEN OUR RELATIONSHIP WITH OUR BUSINESS PARTNERS. AN AVENUE TO SOLIDIFY THAT RELATIONSHIP IS TO REDUCE THE AMOUNT OF TIME IT TAKES TO ACHIEVE THE DESIRED OUTCOME FROM THEIR OPERATIONS. EVEN SAVING JUST A FEW MINUTES PER PART CAN EQUATE TO A SIGNIFICANT COST SAVINGS THROUGHOUT THE YEAR. SUBSTANTIAL COST SAVINGS CAN BE ACHIEVED BY USING HIGH-QUALITY, AMERICAN MADE DYNABRADE PRODUCTS AND BY FOCUSING ON REDUCING CYCLE TIMES FOR LABOR INTENSIVE OPERATIONS.



Dynabrade Europe S.à r.l.  
Zone Artisanale Op Tomm, 6  
L-5485 Wormeldange-Haut, Luxembourg  
Tel: +352 768 494 1 / Fax: +352 768 495  
Email: sales@dynabrade.lu  
www.dynabrade.com

WE LISTEN. WE OBSERVE. **WE OPTIMIZE.**

OPTIMIZING SURFACE TREATMENT PROCESSES  
WITH COBOTS  
EUR 22-40

WE LISTEN. WE OBSERVE. **WE OPTIMIZE.**



# ACTIVE CONTACT FLANGE-KIT™ (ACF-K™)

## VERSATILE AUTOMATION KIT FOR COBOT SURFACE TREATMENT

### ACTIVE COMPLIANT TECHNOLOGY

INTERACTIVE COMPENSATION FOR SURFACE TOLERANCES  
UP TO 35 MM WITH GUARANTEED CONSISTENT CONTACT FORCE.  
NO ADAPTATION OF THE ROBOT TRACKS.

### SIMPLE SYSTEM INTEGRATION HIGHEST QUALITY STANDARDS

CLEVERLY SIMPLE INTEGRATION USING STANDARD INTERFACES.  
THE CONSTANT FEEDBACK ON THE CONTACT SITUATION, POSITION AND  
ACTUAL FORCE SMOOTHLY PERFORMS THE QUALITY INSPECTION.

### INTEGRATED GRAVITATION COMPENSATION

THE PROCESS FORCE REMAINS CONSTANT EVEN  
WITH CHANGING ORIENTATIONS. NO ADDITIONAL  
APPLICATION PROGRAMMING REQUIRED.

### PLUG'N PLAY SOLUTION

ATTACH THE DYNABRADE TOOLS SIMPLY  
TO THE ACF-KIT.  
FAST-SIMPLE-EFFICIENT.



### PASSIVE SECURITY AND HIGH-SPEED CONTROL

MECHATRONIC ACTUATOR AND SENSOR ELEMENT WITH A HIGH  
DEGREE OF PROCESS SECURITY USING A ROBUST MECHANICAL  
CONSTRUCTION WITH INTEGRATED PASSIVE SAFETY  
AND HIGH-SPEED CONTROL.

OPTIMIZING SURFACE TREATMENT PROCESSES WITH COBOTS

OPTIMIZING SURFACE TREATMENT PROCESSES WITH COBOTS



REF. : ACFK56819B  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 56819B

**TOOL FEATURES**  
Random Orbital Sander 5" (127 mm)  
Dia., 0.28 hp, 12,000 RPM, 3/16" (5 mm)  
Dia. Orbit, Rear Exhaust



REF. : ACFK56830B  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 56830B

**TOOL FEATURES**  
Random Orbital Sander 6" (152 mm)  
Dia., 0.28 hp, 12,000 RPM, 3/16" (5 mm)  
Dia. Orbit, Rear Exhaust



REF. : ACFK57814B  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 57814B

**TOOL FEATURES**  
Dynabug Orbital Sander 3-2/3" (93 mm)  
W x 7" (178 mm) L, 0.28 hp (209 W),  
10,000 RPM, 3/32" (2 mm) Dia. Orbit



REF. : ACFK15360  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 15360

**TOOL FEATURES**  
Dynaflex III Abrasive Belt Tool, 0.7 hp,  
Right Angle, 23,000 RPM, Front Exhaust,  
for 1/4" - 1" (6-25 mm) W x 24" (610 mm)  
L Belts



REF. : ACFK52276-1  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 52276  
(VERTICALLY MOUNTED)

**TOOL FEATURES**  
Straight-Line Die Grinder, 0.7 hp  
(515 W), 15,000 RPM, Extended Rear  
Exhaust, 1/4" & 6mm Collets



REF. : ACFK54771  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 54771

**TOOL FEATURES**  
Right Angle Type 27 Depressed Center  
Wheel Grinder 4" (100 mm) Dia., 0.7 hp  
(515 W), 12,000 RPM, 3/8" - 24 Spindle  
Thread



REF. : ACFK52635  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 52635

**TOOL FEATURES**  
Right Angle Disc Sander 5" (125 mm)  
Dia., 1.3 hp, 12,000 RPM, Rotational  
Exhaust, 5/8"-11 Spindle Thread



REF. : ACFK52639  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 52639

**TOOL FEATURES**  
Right Angle Depressed Center Wheel  
Grinder 5" (125 mm) Dia., 1.3 hp, 12,000  
RPM, Rotational Exhaust, M14 x 2  
Spindle Thread



REF. : ACFK13214  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 13214

**TOOL FEATURES**  
Dynastraight - Die Grinder, 0.7 hp  
(515 W), 15,000 RPM, Extended Rear  
Exhaust, 5/8"-11 Arbor



REF. : ACFK52276  
FERROBOTICS ACF-K  
+ DYNABRADE TOOL REF. 52276

**TOOL FEATURES**  
Straight-Line Die Grinder, 0.7 hp  
(515 W), 15,000 RPM, Extended Rear  
Exhaust, 1/4" & 6mm Collets

THE ACF-K WAS ESPECIALLY  
DEVELOPED FOR COBOTS AND  
OPTIMIZES A WIDE RANGE OF  
PREVIOUSLY MANUAL SURFACE  
TREATMENT.

COMBINED WITH THE DYNABRADE  
TOOLS AND EXPERIENCE THE  
TECHNOLOGY GUARANTEES THE  
PERFECT FINISH AND QUALITY TO  
THE WORKPIECE.

		Dynabrade Tool Specifications												
PN	Description	Hp	Max. Air Flow (L/Min)	Max. RPM	Air Inlet Thread	Exhaust Type	Hose I.D.	Vacuum Type	Motor Type					
ACFK56819B	FerRobotics ACF-K + Dynabrade Tool Ref. 56819B	0.28	510	12000	1/4" NPT	Rear	1/4" (6 mm)	Vacuum	Rotary Vane					
ACFK56830B	FerRobotics ACF-K + Dynabrade Tool Ref. 56830B			10000										
ACFK57814B	FerRobotics ACF-K + Dynabrade Tool Ref. 57814B			10000		Front	3/8" (10 mm)	5/8" (16 mm)	Planetary-Gearred					
ACFK15360	FerRobotics ACF-K + Dynabrade Tool Ref. 15360	906	23000											
ACFK13214	FerRobotics ACF-K + Dynabrade Tool Ref. 13214	0.7	1133	4500		Rear	3/8" (10 mm)	Non-Vacuum	Gearless					
ACFK52276	FerRobotics ACF-K + Dynabrade Tool Ref. 52276		906	15000										
ACFK52276-1	FerRobotics ACF-K + Dynabrade Tool Ref. 52276 (Vertically Mounted)		1133			Rotational	3/8" NPT		Rotary Vane					
ACFK54771	FerRobotics ACF-K + Dynabrade Tool Ref. 54771		1.3	1218						12000				
ACFK52635	FerRobotics ACF-K + Dynabrade Tool Ref. 52635													
ACFK52639	FerRobotics ACF-K + Dynabrade Tool Ref. 52639													

### ABRASIVES SOLUTIONS FOR ROBOTIC APPLICATIONS

WITH MORE THAN 1400 REFERENCES, DYNABRADE CARRIES ALL THE  
ABRASIVES TO WORK ON OUR TOOLS ALSO FOR ROBOTIC APPLICATIONS.

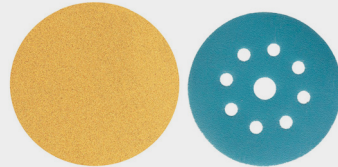
Types: Belts - Discs - Brushes - Grinding Wheels - Cutting Wheels...

Materials: Silicon Carbide - Aluminum Oxide - Alumina Zirconia -  
Zirconia Alumina - Ceramic - Diamond ...

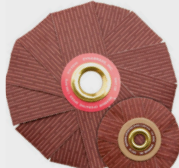
**COATED ABRASIVE BELTS**  
DC242 - Cloth backing  
Available in different sizes (Width & Lengths) and  
grits. Exists in Zirconia Alumina with grinding aid  
or Aluminum Oxide



**COATED ABRASIVE FILM & PAPER DISCS/SHEETS**  
DG922 / DV722 / Clog free - Aluminum Oxide  
Available in a wide variety of sizes, shapes and  
grits.



**SANDING STARS**  
Aluminum Oxide  
Available in a wide variety of sizes,  
types and grits.



**UNITIZED ABRASIVE DISCS**  
DU312F - Fibre Backing  
Available in Silicon Carbide and Aluminum  
Oxide Density from Soft/Flexible to Hard/Stiff



DOWNLOAD OUR COMPLETE  
ABRASIVE SOLUTIONS HERE



SCAN ME

