



OPTIMIZING SURFACE TREATMENT PROCESSES WITH COBOTS

IN PARTNERSHIP WITH



WE LISTEN. WE OBSERVE. **WE INNOVATE.**

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.





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

TOOL FEATURES
Dynastraight - Die Grinder, 0.7 hp, Straight-Line, 4,500 RPM, 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.

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.





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

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			906		23000				
ACFK15360	FerRobotics ACF-K + Dynabrade Tool Ref. 15360	0.7	906	4500		Front	3/8" (10 mm)		Non-Vacuum	Planetary-Geared
ACFK13214	FerRobotics ACF-K + Dynabrade Tool Ref. 13214			1133			Rear			
ACFK52276	FerRobotics ACF-K + Dynabrade Tool Ref. 52276			15000		3/8" (10 mm)				Gearless
ACFK52276-1	FerRobotics ACF-K + Dynabrade Tool Ref. 52276 (Vertically Mounted)			1133						
ACFK54771	FerRobotics ACF-K + Dynabrade Tool Ref. 54771									
ACFK52635	FerRobotics ACF-K + Dynabrade Tool Ref. 52635	1.3	1218	12000	3/8" NPT	Rotational	Rotary Vane			
ACFK52639	FerRobotics ACF-K + Dynabrade Tool Ref. 52639									

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



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!

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





COST SAVINGS PROGRAM

QUANTIFYING THE VALUE WE ADD

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.



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WE LISTEN. WE OBSERVE. WE INNOVATE.

OPTIMIZING SURFACE TREATMENT PROCESSES
WITH COBOTS
EUR 23-40