



# ACF-K™ ACTIVE CONTACT FLANGE KIT™

VERSATILE AUTOMATION KIT FOR COBOT SURFACE TREATMENT

The ACF-K was specially developed for Cobots and optimizes a wide range of previously manual surface treatments. Perfectly engineered, changeable tools enable quick job modulations as a plug & play system. The patented Active Compliant Technology ensures adjustable contact force with intuitive adaptation to the workpiece and also guarantees optimal process quality. The ACF-Kit automates all batch sizes ingeniously simple, reliable and flexible.

**Surface treatment:** Grinding, sanding, polishing, cleaning, stripping paint, brushing, deburring, ...  
**All materials:** Steel, aluminium, titanium, magnesium, carbon, plastic, wood, ceramic, coconut fibres, ...

**PATENTED  
TECHNOLOGY**

**FR**  
**FERROBOTICS**  
perfect feeling

# ACF-K™ ACTIVE CONTACT FLANGE KIT™



## Defined contact force

Interactive compensation of surface tolerances up to 35 mm with guaranteed consistent contact force. No adaptation of the robot tracks.

## Integrated gravity compensation

The process force remains constant even with changing orientations. No additional programming required in the application.

## Passive security and high-speed control

Mechatronic actuator and sensor element with high degree of process security using a robust mechanical construction with integrated passive security and high-speed control.

## Flexible automation kit

The versatile and user-friendly plug & play tools are suitable for surface processing of almost all shapes and materials. Tool change ingeniously simple and flexible.



## ACF-K

- even contact force
- automated tolerance compensation
- modular and flexible, therefore quicker tool change
- minimal programming effort and almost no start-up time
- automates almost all manual grinding work



IN PRINCIPLE, EVERY MANUAL SURFACE TREATMENT CAN BE AUTOMATED, SINCE THE ACF-KIT IS SUITABLE FOR ALMOST ALL APPLICATIONS.

Dr. Ronald Naderer, CEO

## SPECIFICATIONS

Ordercode	Max. Force (pull/push) [N]	Stroke [mm]	Max. Dimensions [mm]	Dead weight [kg]	Power Supply	Bolt circle ISO 9409-1	Communication Interfaces
ACF-K/109/04	100	35	260 x 180 x 150	3,9	24 V DC / 4 A ø 6 mm compressed air, max. 7 bar, 30 µm, ISO 8573-1 KL3 (oil & water free)	ø 50 mm	Standard: Ethernet TCP/IP Optional: Modbus TCP, Ethernet IP, DeviceNet, Profibus, ProfiNet, Ethernet XML

## TOOL EXAMPLES

Item Number	Item description	Vacuum Kit
ACF-K/Dyn/56819 00	FerRobotics ACF-Kit - Random Orbital Sander 5" (127 mm) Dia. 0.28 hp (209 W), 12,000 RPM, 3/16" (5 mm) excentric stroke	✓
ACF-K/Dyn/56830 00	FerRobotics ACF-Kit - Random Orbital Sander 6" (152 mm) Dia. 0.28 hp (209 W), 12,000 RPM, 3/16" (5 mm) excentric stroke	✓
ACF-K/Dyn/57814 00	FerRobotics ACF-Kit - Jitterbug 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) excentric stroke	✓
ACF-K/Dyn/15360 00	FerRobotics ACF-Kit - Belt File 0.7 hp (515 W), 23,000 RPM, for 1/4" - 1" (6-25 mm) W x 24" (610 mm) L Belts	
ACF-K/Dyn/13214 00	FerRobotics ACF-Kit - Die Grinder 0.7 hp (515 W), 4,500 RPM, 5/8"-11 Arbor	
ACF-K/Dyn/52276 00	FerRobotics ACF-Kit - Die Grinder 0.7 hp (515 W), 15,000 RPM, 1/4" & 6mm Collets	
ACF-K/Dyn/52276 01	FerRobotics ACF-Kit - Die Grinder Angular 0.7 hp (515 W), 15,000 RPM, 1/4" & 6mm Collets	
ACF-K/Dyn/54771 00	FerRobotics ACF-Kit - Angular Grinder 4" (102 mm) Dia. 0.7 hp (515 W), 12,000 RPM, 3/8" - 24 Spindle Thread	
ACF-K/Dyn/52635 00	FerRobotics ACF-Kit - Angular Grinder 5" (127 mm) Dia. 1.3 hp (956 W), 12,000 RPM, 5/8"-11 Spindle Thread	
ACF-K/Dyn/52639 00	FerRobotics ACF-Kit - Angular Grinder 5" (127 mm) Dia. 1.3 hp (956 W), 12,000 RPM, M14x2 Spindle Thread	
<b>And many more!</b>		

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## COBOT MANUFACTURER CERTIFICATES

