



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**

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	
And many more!		

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COBOT MANUFACTURER CERTIFICATES



AND MANY MORE!