UNIVERSAL ROBOTS+
Certified

EFK
EASY FINISHING KIT

WITH PLUG&PLAY FROM SIMULATION TO THE HIGH QUALITY SERIES FINISHING PROCESS

The Universal Robots+ FerRobotics Easy Finishing Kit (EFK) is the perfect package to start automating surface finishing processes. It delivers the Plug and Play cobot tool ACF-Kit, with the unique Active Compliant Technology by FerRobotics and the intuitive robot simulation software RoboDK for path programming, as well as collision and reach tests without programming knowledge. The flexible finishing tool brings the highest quality in every process because of automated tolerance compensation and the best real time force control (active force compliance). The RoboDK Software is a powerful and cost-effective simulator for robots and robot programming. RoboDK's simulation and offline programming tools allows you to program your UR robots outside the production environment, eliminating production downtime caused by shop floor programming. Easily simulate and program your cobot offline from your 3D models and deploy URP and SCRIPT robot programs with just a few clicks. The FerRobotics Easy Finishing Kit is compatible with the robot models UR10, UR10e and UR16e.

Surface treatment: Sanding, grinding, polishing, cleaning, deburring, finishing
All materials: Steel, aluminum, titanium, magnesium, carbon, plastic, wood, ceramic, coconut fiber...

RoboDK

FERROBOTICS
perfect feeling

EFK
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UR+ CERTIFIED

READY-TO-USE PACKAGE SOLUTION FOR INDUSTRY 4.0
- User-friendly plug&play package solution
- Cobot-compatible surface treatment tools with integrated real time force control
- For all materials and even complex shaped surfaces

PLUG&PLAY START UP
- Intuitive graphical user interface: No programming skills are required
- Program your robot with a few clicks
- Easily setup your simulation using drag & drop

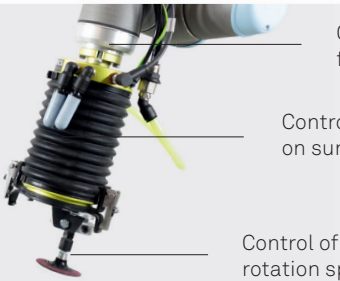
QUICK, FLEXIBLE, SAFE
- High performance and functionally optimized system for immediate integration
- Rapid job modulation directly by the end user
- Automated tolerance compensation

EASIEST PATH PROGRAMMING
- Surface & edge following
- Allows offline programming
- Cycle time calculation
- Robot calibration

COMPACT AND SIMPLE

PRECISE APPLICATION OF FORCE

DEVICES ARE ARTIFICIALLY CONDITIONED



HARDWARE SPECIFICATIONS ACF-K

Ordercode	Max. Force (pull/ push) [N]	Stroke [mm]	Dimensions [mm]	Dead weight [kg]	Power Supply	Bolt circle ISO 9409-1	Communication Interfaces
ACF-K/109/04	100	35	205 x 160 x 320	3.9	24 V DC / 4 A ø 6 mm compressed air, max. 7 bar, 30 µm, ISO 8573-1 Kl.3 - (oil & water free) Ø 12mm compressed air for the devices, max. 6.2 bar	ø 50	Standard: Ethernet TCP/IP Optional: Modbus TCP, Ethernet IP, DeviceNet, Profibus, ProfiNet, Ethernet XML

HARDWARE SPECIFICATIONS TOOLS

Ordercode	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	

SOFTWARE SPECIFICATIONS ROBODK

Infos	RoboDK UR Simulation
Includes a URCap plugin:	No - It generates URP and SCRIPT files. Post processors can be linked to 3rd party libraries.
Compatibility:	UR3, UR5, UR10, CB2, CB3.0, CB3.1