



AOK ACTIVE ORBITAL KIT

INTEGRATED GRINDING SOLUTION FOR TEXTURE-FREE SURFACE TREATMENT

The AOK is a finely tuned system package consisting of ACF and an orbital sander optimized for robot use. This integrated complete solution automates the industrial grinding process with individual control of all process parameters: speed of rotation, contact force and feed rate. The AOK offers the highest process quality from a single source. The system design is compact and simple. The enormously durable grinder is designed for industrial use and delivers twice the output of standard devices, 24 hours a day, 7 days a week.

Surface treatment: Grinding, polishing, cleaning, deburring

All materials: steel, aluminum, titanium, magnesium, carbon, plastic, wood, ceramic, coconut fiber, ...

PATENTED
TECHNOLOGY


FERROBOTICS
perfect feeling

AOK

ACTIVE ORBITAL KIT

GLOBAL NOVELTY

GRINDING PACKAGE SOLUTION FOR INDUSTRY 4.0

- User-friendly industrial package solution
- All the benefits of ACF system cooperation combined with a robot-compatible grinder
- For all industries and materials

QUICK, FLEXIBLE, SAFE

- High performance and functionally optimized system for immediate integration
- Rapid job modulation directly by the end user
- Optimal functionality, productivity and process reliability

THE ENTIRE SYSTEM IS FORCE
CALIBRATED AND ENSURES
PRECISE APPLICATION OF FORCE

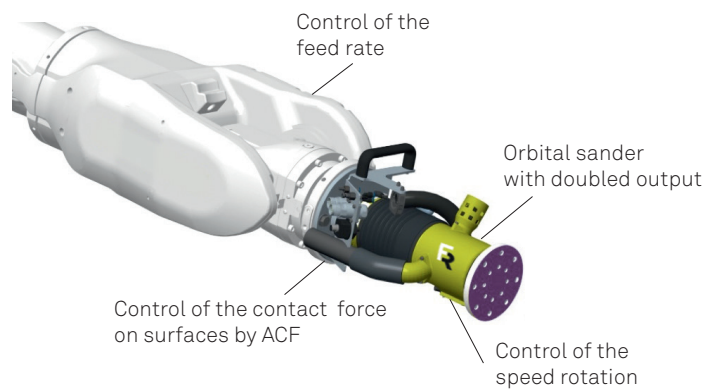
COMPACT AND SIMPLE

CONTROL OF ALL PROCESS PARAMETERS

- Feed rate of the robot
- Speed of the orbital sander
- Contact force on the surfaces in an integrated system solution

TOP QUALITY

- Precisely even surface appearance thanks to a process-optimized package solution
- No post-processing
- The highest quality level 24 hours a day, 7 days a week



SPECIFICATIONS

Max. force (push/pull) [N]	160
Stroke ACF [mm]	35.5
Max. overturning moment [Nm]	250
Max. torque [Nm]	250
Dimensions [mm]	ø285 x 350 Bolt circle ISO 9409-1 standard flange ø80 mm
AOK dead weight [kg]	8.5
Power supply	• 24 V (DIN-track) • 380 V (frequency inverter) • ø6 mm air supply of ACF and sealing air Max. 7 bar, 30µm, ISO 8573-1 KL.3 (oil & water free) • ø6 mm operated air supply of brake of grinding disc Max. 7 bar, 30µm, ISO 8573-1 KL.3 (oil & water free)
Max. speed [rpm]	10.000
Motor rated power [W]	700
Motor peak power [W]	1500
Excentric stroke [mm]	5
Grinding disc	ø150 mm, optional ø125 mm, ø6", ø5"
Air consumption [l/min]	20 – 30
Extraction [mm]	ø38
Ambient temperature [°C]	+5 ... +45
Protection class	IP65