



AOK ACTIVE ORBITAL KIT

PLUG&PLAY GRINDING SOLUTION
WITH ACTIVE FORCE CONTROL

Perfect grinding quality requires exact and consistent contact force all along the surface flow. Thus, the AOK/905 autonomously compensates for surface tolerances up to 35.5 mm with guaranteed consistent contact force. Unique performance: Excentric grinder optimized for robot use combined with individual control of the speed of rotation, contact force and feed rate. All AOK/905 system components are finely tuned.

The lightweight design is compact and robust. This reliable benefit package makes the AOK/905 the superior grinding solution. Profit from easy out-of-the-box integration, fast job modulation and perfect grinding quality. The AOK/905 was especially developed for the robot models UR10 and UR10E.

Surface treatment: Grinding, cleaning, deburring

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



UNIVERSAL ROBOTS+
Certified

FERROBOTICS
perfect feeling

AOK

ACTIVE ORBITAL KIT

GLOBAL NOVELTY

GRINDING PACKAGE SOLUTION FOR INDUSTRY 4.0

- User-friendly plug&play package solution
- robot-compatible grinder with integrated force control
- For all materials and complex shaped surfaces

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

CONTROL OF ALL PROCESS PARAMETERS

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

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

COMPACT AND SIMPLE

PRECISE APPLICATION OF FORCE

ENTIRE SYSTEM IS FORCE CALIBRATED



Control of the
feed rate

Control of the contact force
on surfaces by ACT

Control of the
speed rotation

SPECIFICATIONS

Ordercode	AOK/905
Max. force [N]	100
Stroke [mm]	35.5
Dimensions [mm]	205x160x297mm (eingefahrener Hub) Bolt circle ISO 9409-1-50-4-M6 standard flange ø50 mm
Dead weight [kg]	~ 5.5
Power supply	<ul style="list-style-type: none"> • 24 V (DIN-track) • ø6 mm air supply Max. 7 bar, 30µm, ISO 8573-1 Kl.3 (oil & water free) • ø12 mm operated air supply of excentric grinder Max. 6.2 bar
Max. speed [rpm]	12,000
Motor power [W]	209
Excentric stroke [mm]	5
Grinding disc	ø125 mm (ø5")
Air consumption flange [l/min]	5 - 10
Max. Air consumption excentric sander [l/min]	481
Ambient temperature during operation [°C]	+5 ... +45
Protection class flange	IP65 / if equipped with adequate filters