



AOK™ 421 ACTIVE ORBITAL KIT™

INTEGRATED SANDING SOLUTION WITH SUCTION HOOD
FOR FULLY AUTOMATED SANDING AND SPOT-REPAIR OF E-COAT AND PRIMER

The AOK 421 is a finely tuned system package based on the Active Compliant Technology (ACT) and an orbital sander with suction hood optimized for robot use. This integrated complete solution automates the industrial sanding process with individual control of all process parameters: rotation speed, contact force and feed rate. The FerRobotics AOK 421 is ideal for the surface finishing of small areas and offers the highest process quality from one source. The system design is compact and light. The enormously durable sander is designed for industrial use and delivers twice the output of standard devices, 24 hours a day, 7 days a week.

Surface treatment: Sanding, polishing, cleaning, deburring

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

**PATENTED
TECHNOLOGY**

FR
FERROBOTICS
perfect feeling

AOK™ 421

ACTIVE ORBITAL KIT™

GLOBAL NOVELTY

SANDING PACKAGE SOLUTION FOR INDUSTRY 4.0

- User-friendly industrial package solution
- Robot-compatible sander combined with all the benefits of the ACT system cooperation
- 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

CONTROL OF ALL PROCESS PARAMETERS

- Contact force on the surfaces in an integrated system solution
- Feed rate of the robot
- Rotation 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

DEVICES ARE ARTIFICIALLY CONDITIONED



Control of the feed rate by robot

Control of the contact force on surfaces by ACT

Orbital sander with doubled output

Control of the rotation speed

SPECIFICATIONS

Ordercode	AOK/421
Max. force (push/pull) [N]	100
Stroke [mm]	35.5
Dimensions [mm]	Max. 215 x 195 x 290 Bolt circle ISO 9409-1-80-6-M8 standard flange ø 80
Dead weight [kg]	~ 7
Power supply	24 V DC 380 – 500 V AC ø 8 mm air supply, max. 7 bar, 30 µm, ISO 8573-1 Kl.3 (oil & water free)
Max. speed [rpm]	10,000 recommended 6,500
Motor power (S3) [W]	597
Motor peak power (S2) [W]	785
Eccentric stroke [mm]	5
Sanding disc	up to ø 77mm (ø 3"), ø ¼"-20 UNC thread
Air consumption [l/min]	5 – 10
Ambient temperature during operation [°C]	+5 ... +45
Protection class	IP65 / if equipped with adequate filters

FerRobotics Compliant Robot Technology GmbH

Altenbergerstraße 69
Science Park 4 / 5th floor
4040 Linz, AUSTRIA
office@ferrobotics.at

FerRobotics Inc.

59 Prairie Parkway | 230 W. Baseline Road, Suite 108
60136 GILBERTS | 85282 Tempe
Illinois, USA | Arizona, USA

office@ferrobotics.com