



# AOK XS™ DOUBLE HEADER™ ACTIVE ORBITAL KIT XS

## 2-IN-1 SANDING/POLISHING PACKAGE SOLUTION FOR FULLY AUTOMATED PAINT FINISH (SPOT REPAIR)

The Active Orbital Kit XS Double Header operates two tools on one robot quickly and efficiently without any device change. It is another intelligent system package of a specially designed electric random orbital sander/polisher based on the patented Active Compliant Technology™. Especially the industrial sanding and polishing process in partial paint repair benefits from this integrated ready-to-use solution since the system achieves a structure-free surface processing of all materials robot-compatible. The very unique feature is that the applied contact pressure is continuously validated in real time by innovative, redundant force monitoring via sensors and a conditioned calculation model. This enormously durable end-of-arm tool is ideal for industrial use and delivers twice the output of standard devices - 24/7. However, the double header impresses with reacting extremely fast and highly sensitive due to a light and compact design. All critical parameters, such as rotation speed, contact and process force as well as feed rate, may be individually controlled, thus enabling 100% process control. A fully integrated servo motor provides the drive. The AOK XS Double Header requires little maintenance and is universally compatible with many abrasives.

**Surface treatment:** Grinding, polishing, cleaning

**All materials:** Plastic, steel, aluminum, titanium, magnesium, carbon, wood, ceramics,...

**PATENTED  
INNOVATION**

**FR**  
**FERROBOTICS**  
perfect feeling

# AOK XS™ DOUBLE HEADER

## ACTIVE ORBITAL KIT XS™

### INNOVATION

#### 2-IN-1

#### SANDING-GRINDING-PACKAGE SOLUTION

- User-friendly industrial 4.0 package solution
- Robot-compatible sander/polisher combined with all the benefits of the ACT system cooperation
- For all industries and materials (also plastic)

#### QUICK, FLEXIBLE, SAFE

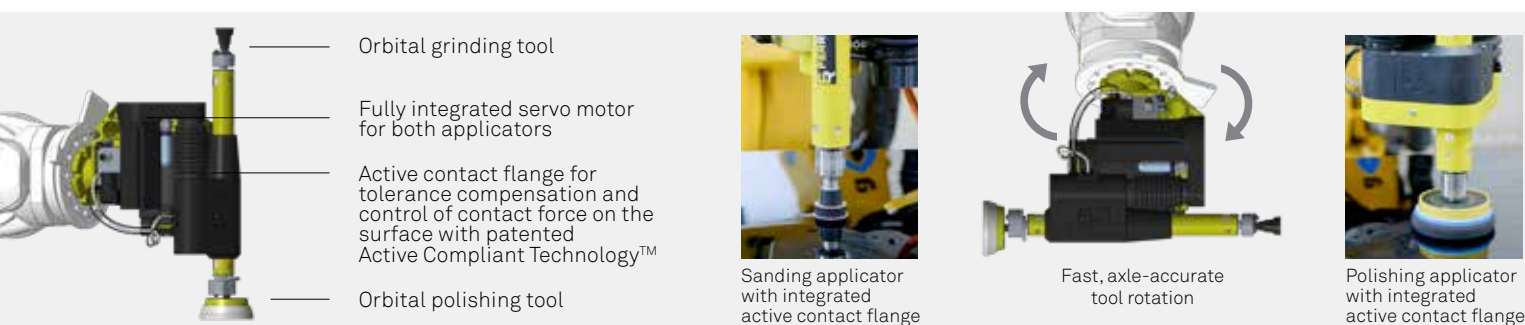
- High performance and application-optimized system for immediate integration
- Rapid job modulation
- Optimal functionality, productivity and process reliability

#### CONTROL OF ALL PROCESS PARAMETERS

- Contact force on the surfaces exact and constant in any position
- Active force control with gravity compensation
- Feed rate of the robot
- Rotation speed of the orbital sander/polisher

#### TOP-QUALITY

- Precisely even surface appearance thanks to a process-optimized package solution
- Specially designed for continuous industrial use
- High repeatability and work at any angle
- The highest quality level 24/7



### SPECIFICATIONS

|   |  |
|---|--|
| Ordercode                                 | AOK/403  |
| Max. force (push/pull) [N]                | 100  |
| Stroke [mm]                               | 35.5   |
| Dimensions [mm]                           | Max. ~ 422 x 221 x 303<br>Bolt circle ISO 9409-1-80-6-M8 standard flange ø 80  |
| Dead weight [kg]                          | ~ 11   |
| Power supply                              | 24 V DC<br>380 – 500 V AC (Frequency converter)<br>ø8 mm air supply, Max. 7 bar, 30µm, ISO 8573-1 Kl.3 (oil & waterfree) |
| Max. speed [rpm]                          | 10.000 / recommended 6.500   |
| Motor power (S3) [W]                      | 597  |
| Motor peak power (S2) [W]                 | 785  |
| Excentric stroke [mm]                     | 5 Sanding tool, 14 Polishing tool  |
| Air consumption [l/min]                   | 5 – 10   |
| Ambient temperature during operation [°C] | +5 ... +45   |
| Protection class                          | IP65 / if equipped with adequate filters   |