



## AAK™ 501 ACTIVE ANGULAR KIT™

### INTEGRATED GRINDING SOLUTION FOR TEXTURED SURFACE TREATMENT

The AAK 501 is a finely tuned system package based on the patented Active Compliant Technology (ACT) and an angle grinder optimized for robot use. This integrated complete solution automates the industrial grinding process with individual control of all process parameters: rotation speed, contact force and feed rate. The FerRobotics AAK 501 offers the highest process quality from a single source. The system design is compact and light. 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, deburring

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

**PATENTED  
TECHNOLOGY**

**FERROBOTICS**  
perfect feeling

# AAK™ 501

## ACTIVE ANGULAR KIT™

### GLOBAL NOVELTY

#### GRINDING PACKAGE SOLUTION FOR INDUSTRY 4.0

- User-friendly industrial package solution
- Robot-compatible grinder combined with all the benefits of 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 angle grinder

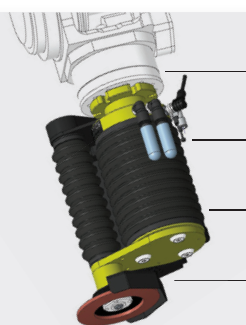
#### TOP QUALITY

- Precisely even surface texture 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

Control of the contact force  
on surfaces by ACT

Angle grinder  
with doubled output

Control of the  
rotation speed

## SPECIFICATIONS

Ordercode	AAK/501
Max. force (push/pull) [N]	160
Stroke [mm]	35.5
Dimensions [mm]	Max. 260 x 268 x 250 Bolt circle ISO 9409-1-80-6-M8 standard flange ø 80
Dead weight [kg]	~ 11
Power supply	<ul style="list-style-type: none"> <li>• 24 V DC</li> <li>• 400 - 480 V AC</li> <li>• ø 8 mm air supply, max. 7 bar, 30 µm, ISO 8573-1 KL.3 (oil &amp; water free)</li> </ul>
Max. speed [rpm]	10,000 recommended 6,500
Motor power (S1) [W]	1,000
Motor peak power (S2) [W]	2,000
Grinding disc	M14 drive spindle thread: fits to ø 75 mm (ø 3") - ø 125 mm (ø 5"), with ø 22.2 mm (ø 7/8") drill-hole
Air consumption [l/min]	5 - 10
Ambient temperature during operation [°C]	+5 ... +45
Protection class	IP65 / if equipped with adequate filters

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