



AAK ACTIVE ANGULAR KIT

INTEGRATED GRINDING SOLUTION FOR TEXTURED SURFACE TREATMENT

The AAK is a finely tuned system package based on the 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 AAK 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**

FR
FERROBOTICS
perfect feeling

AAK

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/201
Max. force (push/pull) [N]	160
Stroke [mm]	35.5
Dimensions [mm]	Max. 220 x 194 x 279.6 Bolt circle ISO 9409-1-80-6-M8 standard flange ø80
Dead weight [kg]	~ 8.5
Power supply	<ul style="list-style-type: none"> • 24 V (DIN-track) • 380 - 500 V AC (frequency inverter) • ø8 mm air supply Max. 7 bar, 30µm, ISO 8573-1 KL.3 (oil & water free)
Max. speed [rpm]	10,000
Motor power (S3) [W]	700
Motor peak power (S2) [W]	1,500
Grinding disc	M14 drive Spindle thread: fits to ø75 mm - ø125 mm (ø3" - ø5"), with ø22.2 mm (ø7/8") drill-hole
Air consumption [l/min]	20 - 30
Ambient temperature during operation[°C]	+5 ... +45
Protection class	IP65 / if equipped with adequate filters



AAK XS ACTIVE ANGULAR KIT XS

INTEGRATED GRINDING SOLUTION FOR TEXTURED SURFACE TREATMENT

The AAK XS is a finely tuned system package based on the 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 AAK XS is developed for minor material removal and 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, polishing, cleaning, deburring

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

PATENTED
TECHNOLOGY


FERROBOTICS
perfect feeling

AAK XS

ACTIVE ANGULAR KIT XS

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/401
Max. force (push/pull) [N]	100
Stroke [mm]	35.5
Dimensions [mm]	Max. 220 x 194 x 258.2 Bolt circle ISO 9409-1-80-6-M8 standard flange ø80
Dead weight [kg]	~ 7
Power supply	<ul style="list-style-type: none"> • 24 V (DIN-track) • 380 -500 V AC (frequency inverter) • ø8 mm air supply Max. 7 bar, 30µm, ISO 8573-1 Kl.3 (oil- & water free)
Max. speed [rpm]	10,000
Motor power (S3) [W]	597
Motor peak power (S2) [W]	785
Grinding disc	M14 drive Spindle thread: fits up to ø4.5" (ø115 mm), with ø22.2 mm (ø7/8") drill-hole
Air consumption [l/min]	5 – 10
Ambient temperature during operation [°C]	+5 ... +45
Protection class	IP65 / if equipped with adequate filters



AAK HD ACTIVE ANGULAR KIT HD

INTEGRATED GRINDING SOLUTION FOR TEXTURED SURFACE TREATMENT

The AAK HD is a finely tuned system package based on the 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 AAK HD is ideal for demanding grinding applications with a heavy material removal and 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 HD

ACTIVE ANGULAR KIT HD

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

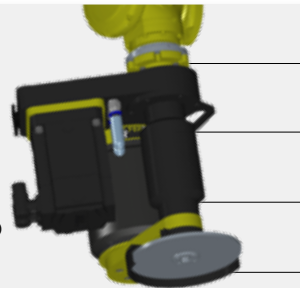
TOP QUALITY

- 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/601
Max. force (push/pull) [N]	500
Stroke [mm]	48
Dimensions [mm]	Max. 343 x 299 x 354 Bolt circle ISO 9409-1-80-6-M8 standard flange ø80
Dead weight [kg]	~ 20
Power supply	<ul style="list-style-type: none">• 24 V (DIN-track)• 380 - 500 V AC (frequency inverter)• ø8 mm air supply Max. 7 bar, 30µm, ISO 8573-1 Kl.3 (oil- & water free)
Max. speed [rpm]	8,500
Motor power (S3) [W]	4,000
Motor peak power (S2) [W]	5,900
Grinding disc	M14 drive Spindle thread: fits up to ø7" (ø180mm), with ø22.2mm (ø7/8") drill-hole
Air consumption [l/min]	5 - 10
Ambient temperature during operation [°C]	+5 ... +45
Protection class	IP65 / if equipped with adequate filters