

COUPLING HEAD AK 161 / AK 270

for braked trailers up to 2,700 kg



SAFETY ADVANTAGE 1

Open position

The hand grip points diagonally upwards and indicates to the operator that it is open.



SOFT TOUCH GRIP

A soft and therefore adhesive plastic mixture is used in the red area of the hand grip. In addition, the projection on the end of the hand grip serves as an anti-slip protection.

SAFETY ADVANTAGE 2

Closed position

The vehicle's ball is fully inserted and has released the securing lever. Only now does the hand grip assume the horizontal position and indicate to the operator that a secure connection has been created.



WEAR INDICATOR

As long as the marking is in the positive range, the tow hitch is OK.

SOFT-DOCK AS STANDARD

- Protection against scratching
- Shin protection



**Securing lever
for flawless hitching**

SAFETY ADVANTAGE 3

Indicator for correct hitching

In the closed position, the green safety indicator is additionally pushed out by the vehicle's coupling head, and is therefore visible. It once again indicates to the operator that the trailer is securely connected to the vehicle. This prevents unsuccessful locking. The journey may now start.

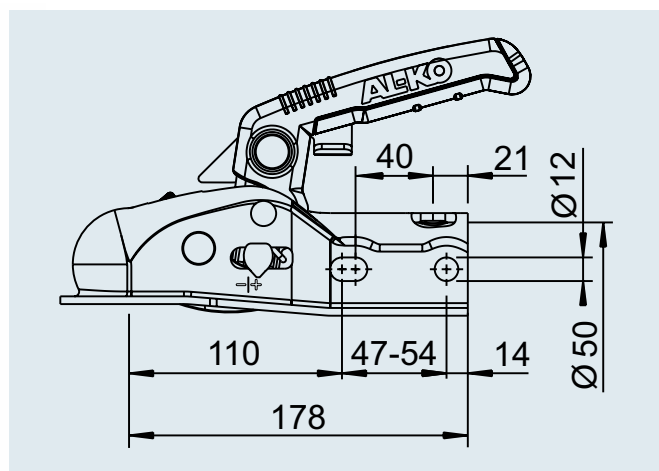
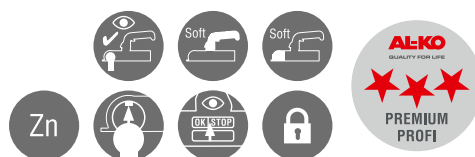
OPTIONAL LOCK ACCESSORY

Effective protection against rapid unauthorised access in the coupled and uncoupled state.



COUPLING HEAD AK 161

for braked trailers up to 1,600 kg





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Coupling head AK 161 with Soft-Dock

SAP: KUPLNG KUGL AK161 D50 M BEDANLEIT

Part No.	1730219
Barcode no.	4003718049756
Perm. gross weight	1,600 kg
Nose load	120 kg
D/Dc value	14.95 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2671
	1.6 kg
	— 288 units



Coupling head AK 161 with Soft-Dock, spacers Ø 35/45

SAP: KUPLNG KUGL AK161 D50/45/35 M BEDANLEIT

Part No.	1730218
Barcode no.	4003718049749
Perm. gross weight	1,600 kg
Nose load	120 kg
D/Dc value	14.95 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2671
	1.7 kg
	— 156 units



Safety kit for coupling head AK 161 with Soft-Dock, spacers Ø 35/45, lock

SAP: KIT SAFETY AK161 D50/45/35 M ZUBEHÖR

Part No.	1730220
Barcode no.	4003718049763
Perm. gross weight	1,600 kg
Nose load	120 kg
D/Dc value	14.95 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2671
	1.9 kg
	— 156 units

Soft-Dock suitable for coupling head AK 161 / AK 270

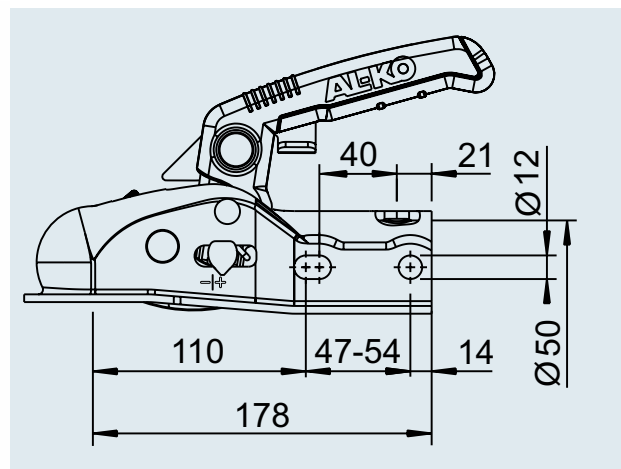
SAP: SOFT-DOCK SCHWARZ

Part No.	693394
Barcode no.	4003718051698
	0.04 kg
	— —



COUPLING HEAD AK 270

for braked trailers up to 2,700 kg



Coupling head AK 270 with Soft-Dock

SAP: KUGLNG KUGL AK270 D50 M BEDANLEIT

Part No.	1730082
Barcode no.	4003718049770
Perm. gross weight	2,700 kg
Nose load	120 kg
D/Dc value	21.6 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2669
	1.7 kg
	— 288 units

Coupling head AK 270 with Soft-Dock, spacers Ø 35/40/45

SAP: KUGL AK270 D50/45/40/35 M BA

Part No.	1730083
Barcode no.	4003718049787
Perm. gross weight	2,700 kg
Nose load	120 kg
D/Dc value	21.6 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2669
	1.9 kg
	— 156 units

Safety kit for AK 270 with Soft-Dock, spacers Ø 35/40/45, lock

SAP: KIT SAFETY AK270 D50/45/40/35 ZUBEHÖR

Part No.	1730084
Barcode no.	4003718049794
Perm. gross weight	2,700 kg
Nose load	120 kg
D/Dc value	21.6 kN
Material	Steel
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 2669
	1.9 kg
	— 156 units



Lock barrel with Safety-Ball suitable for coupling head AK 161 / AK 270

SAP: KIT STECKSCHLOSS AK161/AK270

Part No.	1730411
Barcode no.	4003718051704
	0.15 kg
	— —

COUPLING HEAD AK 301 / AK 351

for braked trailers up to 3,500 kg



SAFE HITCHING UP



Clear open position

The hand grip points diagonally upwards and indicates to the operator:

Hitch is not yet locked!

Protective cover for safe hitching



Clear closed position

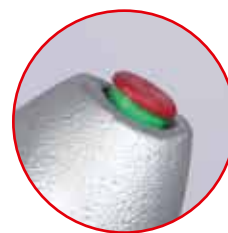
The car's towing hitch engages. Only at this point does the hand grip move to the horizontal position, and indicate to the user:

Hitch is locked!



Wear indicator

Provides information about the status of your trailer's hitch as well as the towing hitch of your car.



Safety indicator

If the green cylinder is visible in hitched condition, you know that the hitch has been positioned correctly on your towing vehicle's ball.

MORE SAFETY – MORE PROTECTION



"Safety-Ball" option for when the trailer is stationary

1. When the trailer is unhitched, simply insert the Safety-Ball into the hitch. The hitch handle automatically moves to the "Closed" position.
2. The hitch can now be secured with the key to prevent quick access.
(For details, see instructions for use).



"Anti-theft device" option for towing and when stationary

Insert key into lock barrel and secure it. (For details, see instructions for use).

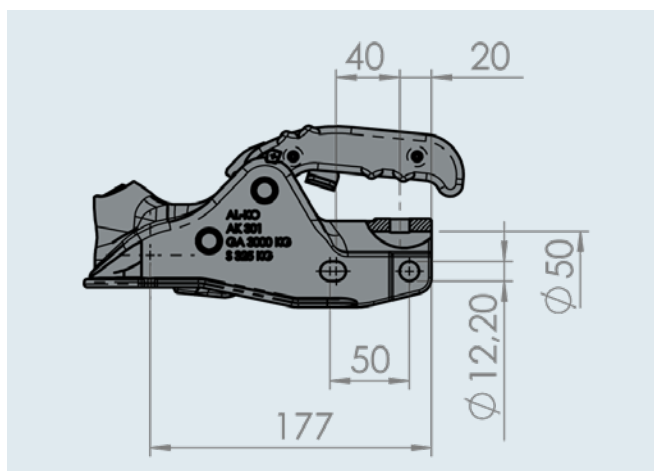


"Soft-Dock" option




(Ramming protection) Protects the rear of the vehicle against damage.

COUPLING HEAD AK 301




for braked trailers up to 3,000 kg






PROFI coupling head type AK 301

SAP: KUPLNG KUGL AK301 D50	
Part No.	1221746
Perm. gross weight	3,000 kg
Nose load	325 kg
D/Dc value	26.9 kN
Material	Cast iron
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 1594
	2.85 kg
 	— 104 units

PROFI coupling head type AK 301 with Soft-Dock

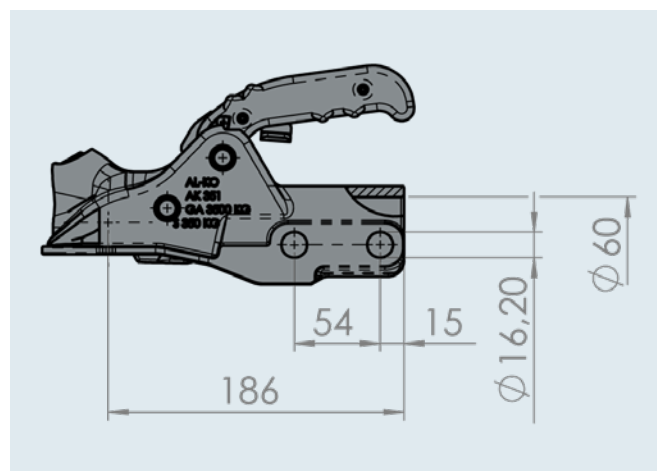
SAP: KUPLNG KUGL AK301 D50/45 SOFTDOCK VERP	
Part No.	1223715
Perm. gross weight	3,000 kg
Nose load	325 kg
D/Dc value	26.9 kN
Material	Cast iron
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 1594
	3.25 kg
 	— 50 units

PROFI Safety Kit for AK 301

SAP: KIT SAFETY AK301 D50/45 M ZUBEHÖR VERP	
Part No.	1223427
Perm. gross weight	3,000 kg
Nose load	325 kg
D/Dc value	26.9 kN
Material	Cast iron
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 1594
	3.45 kg
 	— 125 units

COUPLING HEAD AK 351

for braked trailers up to 3,500 kg



PROFI coupling head type AK 351

SAP: KUPLNG KUGL AK351 D60

Part No.	1222636
Perm. gross weight	3,500 kg
Nose load	350 kg
D/Dc value	31.0 kN
Material	Cast iron
Holes	horizontal
Tightening torque	195 Nm
ECE type approval no.	E1 55R-01 1595
	3.0 kg
	— 200 units

PROFI coupling head type AK 351 with Soft-Dock

SAP: KUPLNG KUGL AK351 D60 M SOFTDOCK VERP

Part No.	1223716
Perm. gross weight	3,500 kg
Nose load	350 kg
D/Dc value	31.0 kN
Material	Cast iron
Holes	horizontal
Tightening torque	195 Nm
ECE type approval no.	E1 55R-01 1595
	3.4 kg
	— 125 units

PROFI Safety Kit for AK 351

SAP: KIT SAFETY AK351 D60 M ZUBEHÖR VERP

Part No.	1223428
Perm. gross weight	3,500 kg
Nose load	350 kg
D/Dc value	31.0 kN
Material	Cast iron
Holes	horizontal
Tightening torque	195 Nm
ECE type approval no.	E1 55R-01 1595
	3.6 kg
	— 125 units

PROFI coupling head type AK 351-351 ZA

SAP: KUPLNG KUGL AK351-351ZA D60 M12 VERP

Part No.	1224333
Perm. gross weight	3,500 kg
Nose load	350 kg
D/Dc value	31.0 kN
Material	Cast iron
Holes	horizontal + cross
Tightening torque	75 Nm
ECE type approval no.	E1 55R-01 1594
	3.0 kg
	— 200 units



STABILISER COUPLING AKS™

for braked trailers up to 3,500 kg



YOUR ADVANTAGE

I Safe and relaxed driving with the AKS™



Swaying and pitching movements of the trailer are effectively suppressed with the stabiliser coupling.

I Emergency situations

The vehicle combination can be restored to stability faster in an emergency situation with the AKS™. Furthermore, the stabiliser coupling permits a higher theoretical maximum speed (pay attention to permitted maximum speed). The AKS™ 3004/3504 complies with ISO 11555-1 (100 km/h approval possible).

I Function

Operating the stabilisation handle presses four special friction pads against the car's towball from the left and right as well as the front and rear. The maximum braking torque of the pads can be 320 Nm. Swaying or pitching movements are thus effectively suppressed before they become serious.

I Operation

The hitch and stabilisation handles are separate from one another, and each can be operated with one hand. No complicated additional securing devices. The stabilisation handle is simply opened for easier manoeuvring of the trailer.

The AKS – with even better ergonomics – has been presented with the **Caravaning Design Award** and the **Red Dot Design Award** for its particularly successful design!



Function and operation

How to hitch up correctly:



Use the hitch handle to place the AKS™ on the ball (ball must be free from grease and have a bare metal surface). Push the hitch handle down.



Push the stabilisation handle down. The AKS™ is now ready for towing.

STABILISER COUPLING AKS™

for braked trailers up to 3,500 kg



YOUR ADVANTAGE

- ! ECE approval – no TÜV registration is therefore necessary
- ! Approved for 100 km/h operation according to ISO 11555-1

SURFACE TREATMENT

- Housing:** Dacromet-coated
- Hitch handle:** galvanised
- Soft-Dock:** rubber mixture
- Stabilisation handle:** Aluminium and Dacromet-coated, grip area additionally with plastic

CHECKING AND MAINTENANCE

! Safety indicator



If the green cylinder is visible, the AKS™ is correctly mounted on the ball.

! Left/right friction pad wear indicator



Friction linings are still OK.



Friction linings are worn.

! Wear indicator



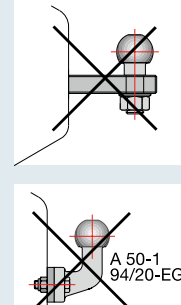
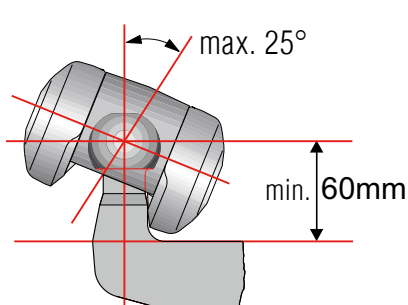
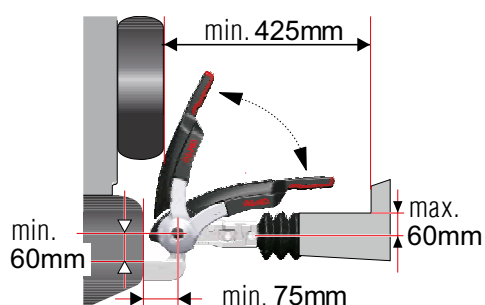
Wear indicator for front/rear friction pads and hitch mechanism.

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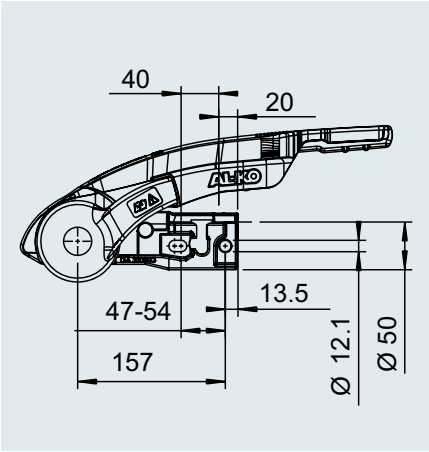
MOUNTING



Before mounting the AKS, check that the preconditions stated here have been met.

Please note: The ball head of the towing hitch must be free from grease and have a bare metal surface (paint must be removed).



STABILISER COUPLING AKS™ 3004 for braked trailers up to 3,000 kg



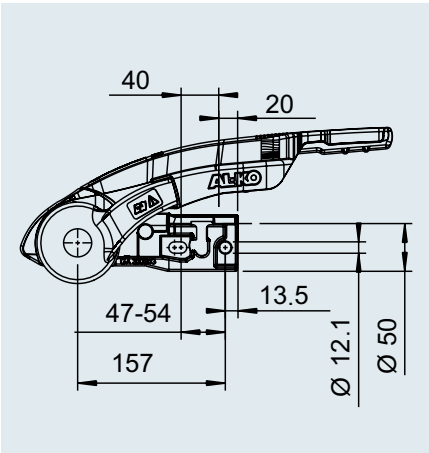
AKS™ 3004	
SAP: AKS3004 VERP GA3000 FL	
Part No.	1225158
Perm. gross weight	3,000 kg
Nose load	150 kg
D/Dc value	26.9 kN
Minimum dimensions	200 kg
Tightening torque Strength class 8.8	M12: 75 Nm
ECE type approval no.	E1 55R-01 0930
	4.2 kg
	— 37 units





AKS™ 3004

Safety-Ball

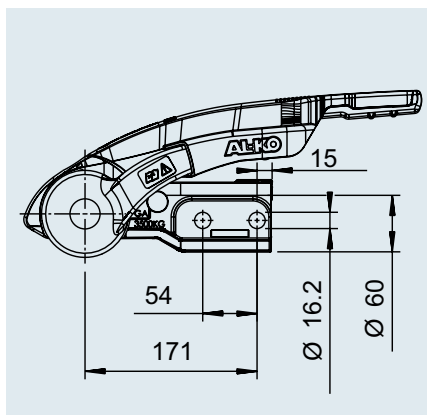
Safety Compact



Safety three-pack AKS™ 3004	
SAP: AKS3004 (3-ER-PACK) SAFETY+BALL COMP	
Part No.	1225155
	5.4 kg
	— 37 units

STABILISER COUPLING AKS™ 3504

for braked trailers up to 3,500 kg

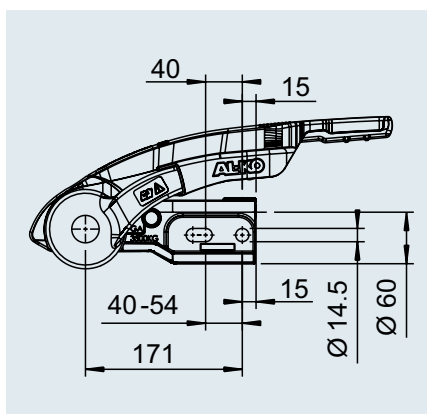


AKS™ 3504

with integrated lock and Safety-Ball

SAP: AKS3504 VERP GA3500 M SCHLIESSZYL

Part No.	1225761
Perm. gross weight	3,500 kg
Nose load	350 kg
D/Dc value	31.0 kN
Minimum dimensions	200 kg
Tightening torque Strength class 8.8	M16: 195 Nm
ECE type approval no.	E1 55R-01 1796
	5.2 kg
	— 37 units



AKS™ 3504 – cross hole

with integrated lock and Safety-Ball

SAP: AKS3504 VERP GA3500 M14 M SCHLIESSZYL

Part No.	1225763
Tightening torque Strength class 10.9	M14: 175 Nm
	5.2 kg
	— 37 units