

## ASH 31Mi specials **COBRA** – trailer

Every sailplane needs different fixtures and a different lay-out in the trailer. These specific features of the **COBRA** trailer for your ASH 31 Mi will be shown and explained here.



The storage box in the front of your trailer (standard) offers generous space for your accessories. At the front the box is 1200 mm wide and 580 mm deep while in the middle it increases to 1400 mm x 570 mm. The sidewalls are quite high to protect your wings. Besides the tow bar (optional) you can also see the carrying handles for the inner wing panels of your ASH 31Mi in the box.

If you do not want to derig your ASH 31Mi on vacation every day: the **COBRA** tie down set (optinal) will hold your sailplane safely. The two crosswise linked steel pegs are easy to drive into the ground and as easy to pull out again one by one. However, because of the linkage, they offer the biggest possible holding power.

Scope of supply:

- 3 x ground anchors
- 3 x padded belts
- 1 x hammer
- 1 x bag



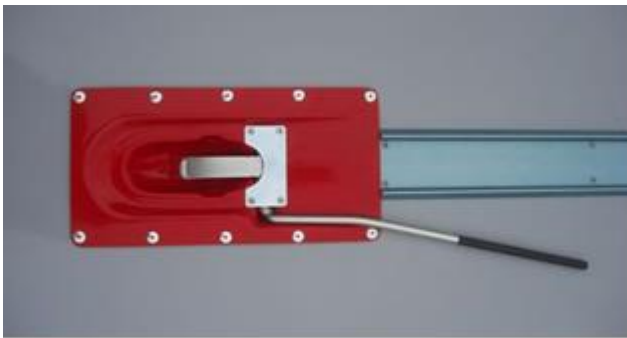
In this picture you can see the little blue boxes on the wing dollies meant for tape, grease and cleaning rag.



The automatic locking device is holding the wing dolly exactly at the spot, spring-loaded and safe.

Your **COBRA** trailer is equipped with automatic locking devices for the wing dollies (standard). Because of the quite different thermal strain of the carbon fiber wings to the aluminum of the trailer, the wings do need some centimeters of longitudinal tolerance in the trailer. This would mean your wings would be sliding back and forth in the trailer with each acceleration or slowdown, and cause abrasion of the wing nose after a while.

To prevent that, **COBRA** has locked the wing dollies in the trailer at the spot for a long time. Now these locking devices are refined (see photo). A handle loaded with two springs in two different directions releases the wing only after the trailer top is lifted open. And if you failed to push the wing into the trailer all the way to the front? At the first slow down, the handle will lock the dolly automatically (standard beginning in 2010).



The lifting device for the tail wheel – step on the lever with your left foot and the fuselage of your ASH 31Mi will roll out almost by itself. Recommended for motor gliders with high tail weight (optional).



And if you need lots of space (e.g. for deck chairs etc.): our underneath drawer (optional). Nearly at the balance point just behind the axis with a ground clearance of 180 mm (which is about double the clearance most cars have).

- easy to drive with bearings
- it locks automatically when fully closed
- lockable
- waterproofed
- holds 180 liters



On the right you see the two tail wheel rails (optional). Ideal for motor gliders with rounded insertions for the protection of your tail wheel.

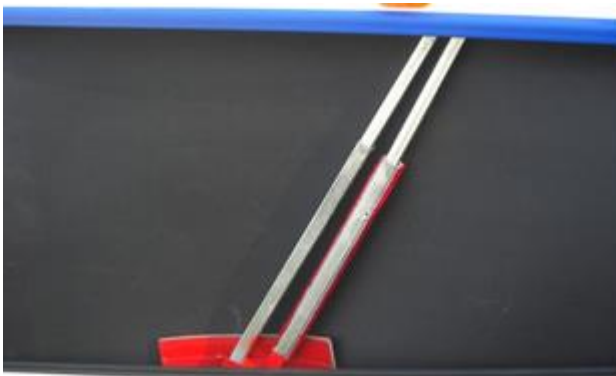


The nose holder for the fuselage: GRP – moulding padded with 20 mm of white sheep felt (standard).



The wing nose rest: easy to change top layers of natural white felt always protect the surface of your wings (standard).

All gliders with big wing tips like the ASH 31Mi are creating a problem for the trailer. The gas springs inside the lift arms do need the maximum force to open the top of the trailer with the wingtips inside. But then you have quite a trouble to close the empty top after rigging. So, **COBRA** now offers a new design; double lift arms. With the top empty one pair is working as usual, with just a click of your finger you activate a second pair before loading the wing tips. A comfort you wouldn't want to miss anymore (optional).



Double lift arms for heavy wing tips in the roof.



With a click of your finger you activate the second pair of lift arms by switching a hinge.

If your ASH 31Mi has a second pair of wing tips for 18 m span these get stored through the front door. To make this comfortable for you the holders are swivel-mounted.



Left you see them tilted in...



...and on the right aiming to the door to get loaded (optional).

Also, for your rigged ASH 31Mi we have something special: The telescope – tow bar with lifting device to attach the tail dolly (optional). Easy to use and strength saving, particularly with motor gliders!



Before the first use mark the front position of the tail dolly at the fuselage. Now you always know exactly where to attach the lifting device.



Lift up...



Attach the tail dolly. Lower it to the ground...



... and plug the pin of the tow bar into the tube at the dolly in a vertical position.

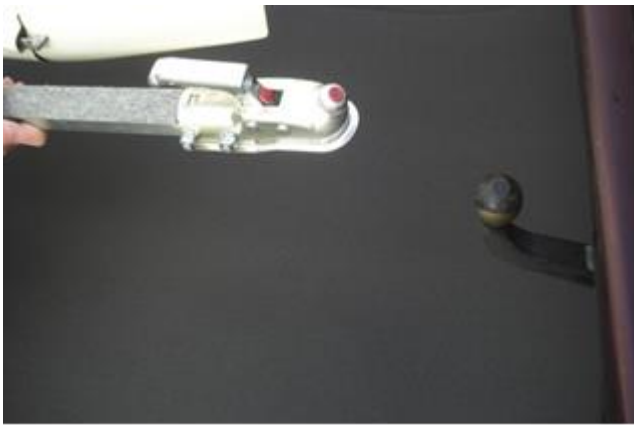




Then lower the towing end to the ground...



...and check the locking of the bolt head at the tube. Open the spring-loaded lever and move out the bar.



Bring your car close...



...and hook it on...



...slowly move on...



...and the spring-loaded lever will lock the telescope automatically.

**For easy attachment of the tail dolly and connection of the glider to the car without lifting and pushing.**