

ROKKER kite by SMAC

ROKKER is born august 2020 as a new kite in between ROKKAKU and Pearson ROLLER

The ROKKER shows several construction details quite similar to ROKKAKU

The ROKKER is a kite very stable, suitable for KAP activity and covering a wind speed range quite wide ; in the standard configuration it is from 4 to 40 km/h and there are good chances to make bigger /light kites extending to lower wind speed or smaller and heavy sail that are covering higher wind speeds

if for example during a KAP session the wind is increasing speed the ROKKER has a self adaptive configuration and keeps flying at good angle without pulling too much (while ROKKAKUs in this conditions are pulling very hard with risk of a frame damage and line angle is quite reduced...)

the ROKKER shows two overlapped sails :

- main - upper sail
- lower - smaller sail

the airflow from main sail is flowing at a good high speed on the back of lower sail and the result is a change of kite inclination

MAIN-UPPER sail is similar to ROKKAKU construction but lower edge is straight and reinforced at the back by 6-8 cm of mylar with carbon fibers or another low elasticity material heavier than sail

LOWER sail has a tubular shape on horizontal upper edge in order to hold the lower bowed spar

Spine pockets, upper horizontal spar, bridles and bow tensioners are equal to ROKKAKU

Lower sails needs to be sewn over the main-upper sail overlapping **flat on flat** for near 4 cm ; sewings about 10 cm each side over and under spar tubular ; in the middle of the kite sewings extended about 12-14 cm centered to mid line

other tips :

- sticks : I suggest something like SKYSHARK P4X ...P400 for horizontal frame and a standard carbon 8 mm Excel or other for spine
- the lower sail needs to be kept extended to size without pulling using FSD tips (FSD slot open should be in direction line - kiter); on ROKKER it is important that tension setting of low sail and of bowing setting should be SEPARATE functions
- bridles need to be mandatory around frame sticks (upper two points and also lower two points)
- bowing settings suggested near 18 cm for LOW sail and near 10 cm for upper sail
- I normally use the practise of dismounting only the spine and reassembly at next flight

