

## Gyrocopter MTO Sport on Floats

### 1. Operating limitations Floats

Maximum Take Off Weight (MTOW):	500 kg
Maximum wave height	30 cm
Maximum wave length (3 waves per float length)	225 cm

### 2. Emergency procedures Floats

Emergency landing – Land:	Water rudder UP
Emergency landing – Water:	Water rudder UP

### 3. Pre-flight inspection Floats

- Check the floats and rigging for damages as cracks, wear and scratches
- Drain all water tight compartments by pumping out any water using the special pump
- Make sure all inspection lids are securely fastened
- Check the water rudder fastening and wires. Also check free movement of the rudders

### 4. Normal procedures and checklists Floats

- Check correct action of lifting and lowering water rudder
- Check correct action of steering of water rudders using the rudder pedals

On water:

- When taxiing: Lower the water rudders
- Before take-off: Water rudders UP
- Before landing: Water rudders UP
- After landing: Water rudders DOWN

### 5. Take-off with Floats on water

On water:

- When taxiing: Water rudders DOWN
- Before take-off: Water rudders UP

- At start, do NOT give full throttle until 250 rotor rpm is reached, await nose rising and the water spray moving behind the front strut

- Smoothly move stick forward and let the gyrocopter accelerate up onto the “step”

If the stick is too far forward or rearward, the gyrocopter will decelerate. It is all about finding the “sweet point” and then lift the gyrocopter at 70 km/h.

- Accelerate to 90 km/h on ground effect before climbing

## 6. Landing with Floats on water

On water:

- Before landing: Water rudders UP
- After landing: Water rudders DOWN
- When taxiing: Water rudders DOWN
  
- Trim for landing speed
- When landing keep 90 km/h on final
- As you approach the water surface, descend slowly with the nose lightly raised
- At the water contact, move throttle to idle and pull the stick fully back
- When the speed has decreased to taxiing speed, lower the water rudder

## 7. Performance Floats

Stall speed:	Pilot + Passenger 50 km/h
Climb performance::	Pilot + Passenger 1,5 m/s
Take-off distance (flat water):	500 meters (Sea level, 20 °C)
Take-off distance to clear 15 m:	600 meters (Sea level, 20 °C)
Landing distance (flat water):	50 meters (Sea level, 20 °C)
Speed for steepest climb ( $v_x$ ):	85 km/h
Speed for best climb ( $v_y$ ):	90 km/h

## 8. Handling, servicing and maintenance

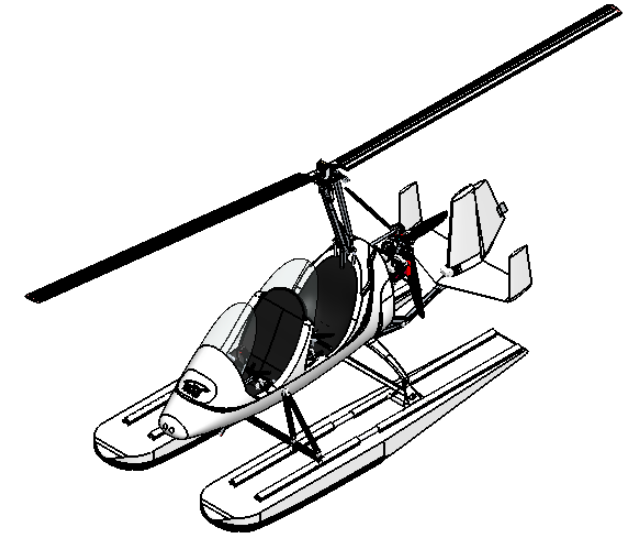
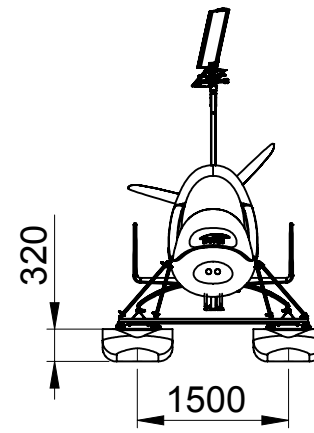
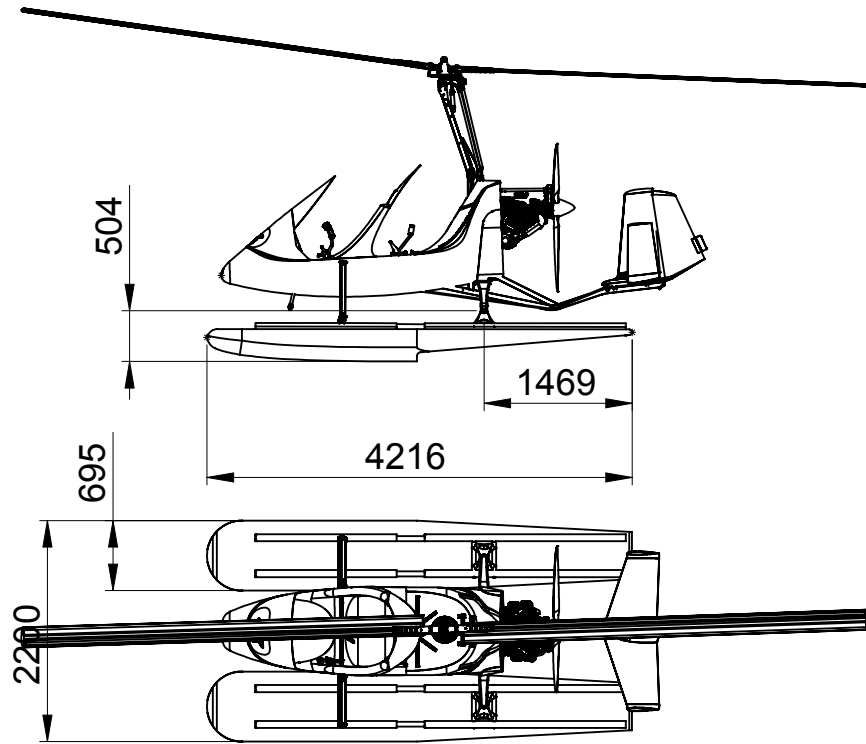
### Periodic inspections Floats


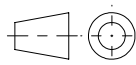
Floats should be checked after each 100 flight hours or once per year, whichever comes first.

## 9. Periodic inspections Floats

CHECK AFTER EACH 100 HOURS OR ANNUAL INSPECTION

- Check the floats and rigging for damages as cracks, wear and scratches
- Drain all bladders
- Open all inspection lids and inspect inside for signs of cracks, damages or leakage
- Check all wires for wear and tear and tightness
- Check the water rudders for free and correct movement



Oberflächenzeichen							
DIN ISO 1302	√roh	Rz 100	√RZ 25	√RZ 6,3			
Kurzzeichen	W	X	Y	Z			
Tolerierung ISO 8015				ISO-Toleranz DIN 7161: Bohrungen H12			
Freimaß-, Form- und Lagetoleranzen nach ISO 2768-mH							
Nennmaß	6	30	120	315	1000	2000	+2000
Abmaß	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2
Diese Zeichnung darf ohne unsere Genehmigung weder vervielfältigt, noch veröffentlicht, noch Dritten oder dem Wettbewerb zugänglich gemacht werden.				Datum		Name	
				Modell	15.01.2015	c.kirk	
				Zchng.	15.01.2015	c.kirk	
				Gepr.			
						Maßstab	
				Format: A3		1:75	
				Blatt: 1 von 1		(1:5)	
<b>RotorSport UK Ltd</b> Unrivalled Sport Gyroplanes				SolidWorks 2010			

Index	CMS	Änderung	Datum	Name
Material / Legierung. :				
Oberfläche..... :				
Gewicht [g]..... : 9790172.89 (berechnet)				
Abmessung..... :				
Benennung / Interne ID				
MTOsport with floats				
				Revision
				A000+