

Customer Information 04/2010

Control of AutoGyro Rotor Systems

MANDATORY

Repeating Symbols:

Please pay attention to the following symbols throughout this document emphasizing particular information:

❖	Warning:	Identifies an instruction, which if not followed, may cause serious injury or even death.
○	Caution:	Denotes an instruction, which if not followed, may severely damage the gyroplane or lead to suspension of warranty.
➤	Note:	Information useful for better handling.

1. Planning information

1.1	Gyroplane affected	AutoGyro rotor systems of all AutoGyro gyropolanes
1.2	Reason	Activated by the airworthiness bulletin regarding the Aircoputer rotor systems, spot tests have shown that there can occur cracks or abnormal bending at the fixation of the rotor blade. As the cause is not clear at this point (we assume it is caused by extreme maneuvers), a check of all rotor systems is necessary.
1.3	Subject	The rotor system of the manufacturer AutoGyro is not airworthy when cracks are showing on the rotor blades. This has to be determined by a visual check concerning cracks and measuring of the straight-line characteristics.
1.4	Compliance	All rotor systems with more than 200 operation hours have to be checked before the next flight.
	❖ Warning:	Security relevant component
1.5	Approval	The technical content is approved under the authority of AutoGyro GmbH
1.6	Manpower	1 hour
1.7	Mass data	No change
1.8	Electrical load data	No change
1.9	References	None
1.10	Other publications affected	None
1.11	Interchangeability of parts	All rotor systems with showing cracks or abnormal bending in the area of the fixation of the rotor blade are not usable anymore.

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2. Material information

2.1	Material cost and availability	The specific spare part is available on request at AutoGyro GmbH.
2.2	Material requirement per gyroplane	If it is necessary to remove a component like lock wire or nylock nuts during assembly, it is obligatory to replace this part by a new one.
2.3	Material requirement per spare part	Rotor system AutoGyro MT03/MTOsport 8,40m part nr. M.RK49 and rotor system AutoGyro MT03/MTOsport 8m part nr. M.RK48 rotor system AutoGyro Calidus 8,40m part nr. C.RK20
2.4	Rework of parts	None
2.5	Special tooling / lubricant-/ adhesives-/ sealing compound	None

3. Accomplishment / Instructions

3.1	Accomplishment	All accomplishments have to be done by every owner.
3.2	Instructions	The rotor system has to be checked by the owner himself, an instructed expert or by AutoGyro. <ol style="list-style-type: none"> 1. Secure gyro against rolling 2. Fix Flight/Brake switch to "Brake" 3. Apply maximum pressure 4. Dismount rotor system (according flight manual 4.21) 5. For dismounting the rotor system remove 6 or 9 screws (depending on your rotor system) 6. Dismount blades from hub 7. Clean blades in the fixing area thoroughly 8. Check all bore holes visually on cracks (specially the outer bore hole) 9. Check of straight alignment: align steel ruler (1000mm) from the inside of the blade directly next to the bore holes of the fixation. 10. If there is a crack or a bending (more than 0,5mm) showing, the rotor system is not airworthy anymore and has to be sent to the manufacturer AutoGyro 11. If there are no cracks or bending, the rotor system can be assembled (according to flight manual 4.21) and can be used as usual 12. In every case the attached data sheet has to be filled out and sent back to the manufacturer
3.3	Test run	-
3.4	Summary	These instructions (section 3) have to be conducted in accordance with compliance in section 1.4.

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4. Photos

Inside of blade of the AutoGyro rotor system



Outside of blade of the AutoGyro rotor system



Gyrofliegen...
die neue Dimension!

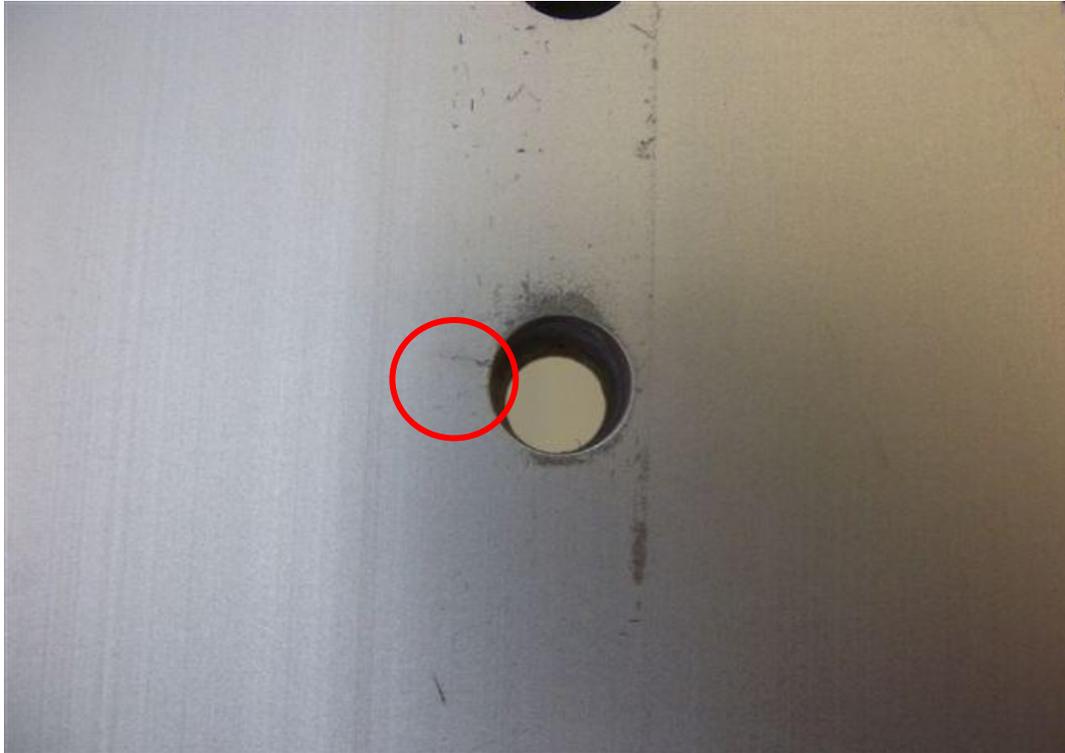
AutoGyro GmbH
Dornierstraße 6-8
31137 Hildesheim
Geschäftsführer
Otmar Birkner
Michael W. Schuler

Phone: +49 (0) 51 21 / 8 80 56 -00
Fax: +49 (0) 51 21 / 8 80 56 -19
E-Mail: info@auto-gyro.com
Web: www.auto-gyro.com

Sparkasse Hannover | Konto-Nr.: 900 300 310
IBAN: DE 73 250 501 800 900 300 310
BLZ: 250 501 80 | BIC: SPKHDE2HXXX
Deutsche Bank AG Hannover | Kto Nr: 606022200
IBAN: DE16 2507 0070 0606 0222 00
BLZ: 250 700 70 | BIC: DEUTDE2HXXX

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Example for occurring cracks from the bore hole on one side approx. 10mm



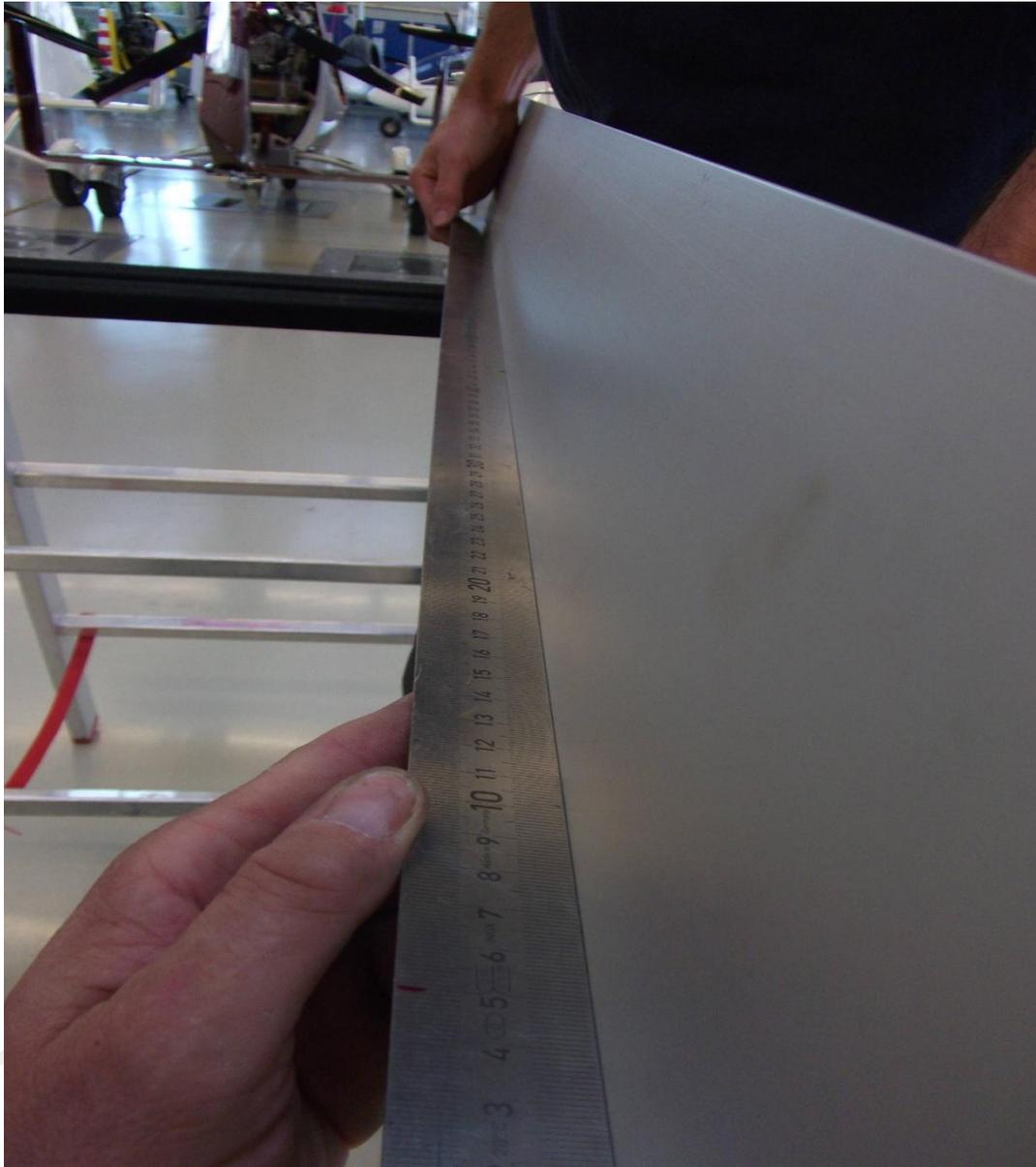
Example for occurring cracks from the bore hole on two sides approx. 30mm



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Measuring of the alignment with a steel ruler (1000mm)

The upright position of the blade prevents a sagging and therefore the measuring is not affected. A light slit should not be showing (as the picture is showing)



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Example for a bended blade behind the fixation (result:rotor system is not airworthy)

