

IMPORTANT NOTICE

Tachometer generators are precision rotary speed measurement devices which must be handled with care by qualified personnel.

These devices are manufactured according to standards and rules in force. The company is homologated ISO 9001 and products comply with EU Declaration of Conformity.

INSTALLATION

GENERAL PRESCRIPTIONS

The assembly interfaces must be in conformity with the prescriptions given in the sales catalogue associated with the product (tolerances on concentricity and perpendicularity).

It is advisable to ensure a correct alignment. The quality of the signal and the mechanical life duration of the equipment depend on compliance with this condition.

IMPORTANT ADVICE

It is strongly recommended not to remove the rotor from the tachometer frame, as this will alter the calibration of the tachometer.

MOUNTING

It is advisable to avoid shock on the sensor during assembly.

1. mount the rotor and the stator according to the mounting instructions,
2. attach the equipment to the support by means of suitable and locked screws or bolts,
 - *when a flange is used, check the peripheral contact of the two interfaces,*
3. if possible check the rotor turns freely.

CONNECTION

Before connecting, it is advisable to disconnect the data processing network interconnection cable.

1. remove the connector screws and cover,
 2. insert the cable in the cable gland, use the correct cable diameter,
 3. make electrical connections,
 4. install the cover and screw of the connector,
 5. tighten the cable gland.
-

CAUTION

The proximity of ferromagnetic masses may cause a drop in generator voltage.

MAINTENANCE

Brushes

Ensure that the brushes slide freely in their cage.

The dust which accumulates on the brush-holders should be removed using oil free compressed air.

The brushes should be changed when their length due to wear reaches about 70% of the original length.

In case of removal of the brushes for inspection, their original position should be correctly noted, in order to re-insert them in their original position.

Commutator

The patina formed underneath the path of the brushes should not be removed.

If the commutator needs to be cleaned , a clean cloth, lightly moistened with alcohol should be used.

The use of abrasive items substances is strictly forbidden.

Life time

For the major part of the tachodynamos RDC, in standard conditions, the life time is more than $3,6 \cdot 10^9$ révolutions, which corresponds to 20.000 hours at a speed of 3.000 rpm.

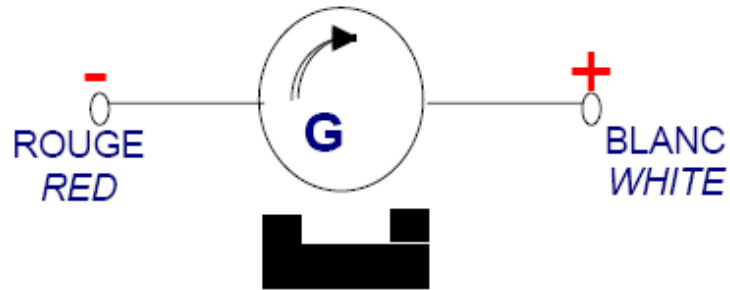
Connecting diagram with cable

Rotation sens horaire face au bout d'arbre

Clockwise direction facing the shaft end

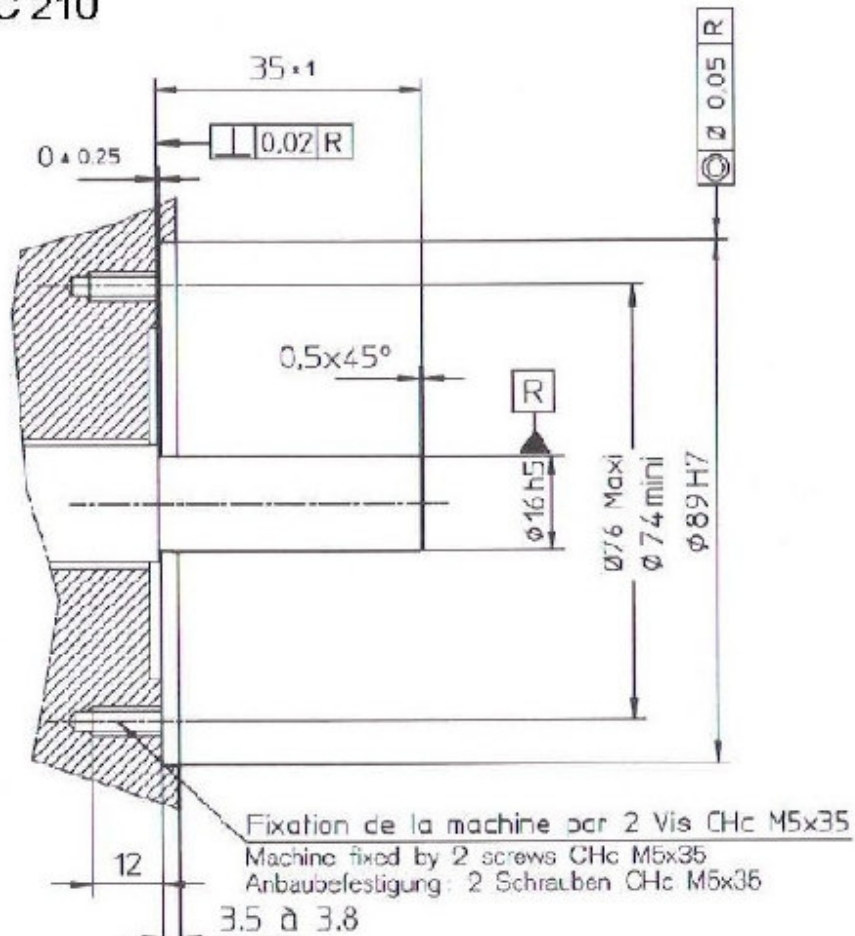
Génératrice à 1 collecteur

Dc tachometer with 1 commutator



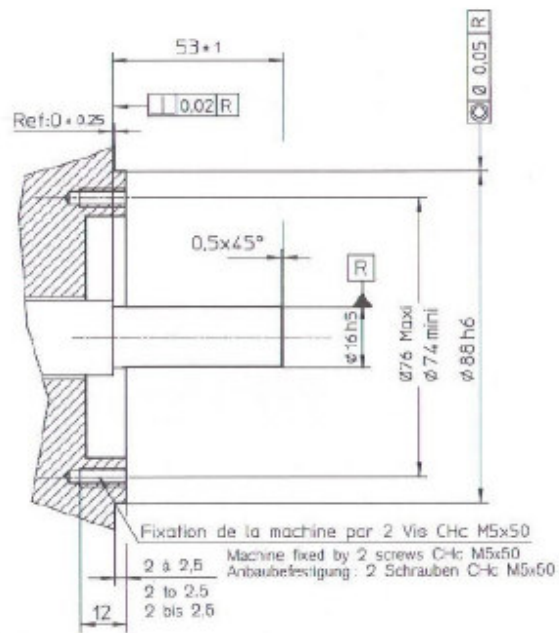
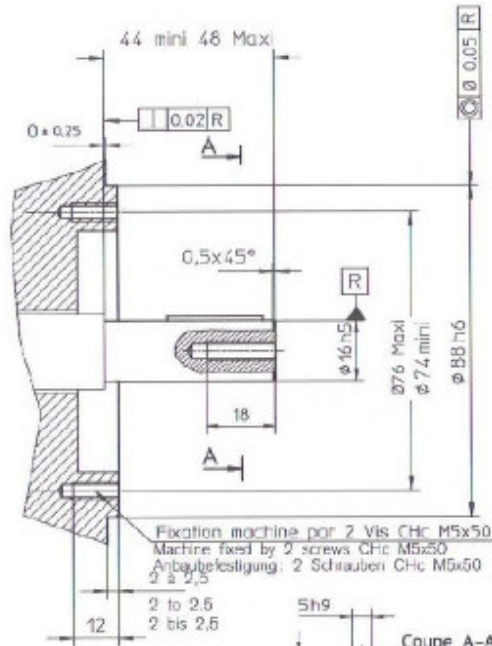
MOUNTING DIAGRAMS

RDC 210



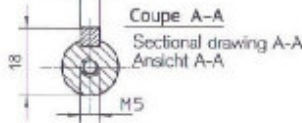
RDC 215 KE/KF

RDC 215 ME/MF

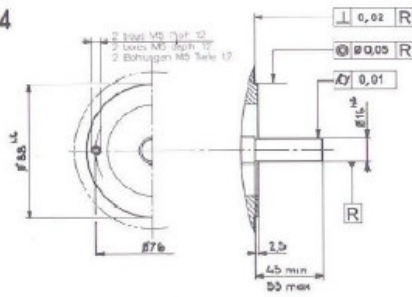


Fixation machine par 2 Vis CHc M5x50
Machine fixed by 2 screws CHc M5x50
Anbaubefestigung: 2 Schrauben CHc M5x50

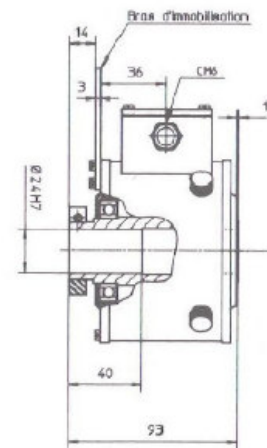
Fixation de la machine par 2 Vis CHc M5x50
Machine fixed by 2 screws CHc M5x50
Anbaubefestigung: 2 Schrauben CHc M5x50



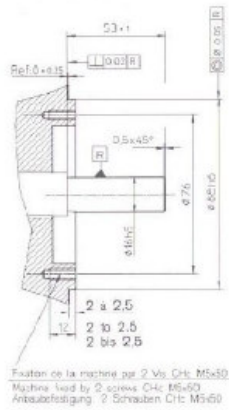
RDC 14



RDC 30 BF



RDC 16



Fixation de la machine par 2 Vis CHc M5x50
Machine fixed by 2 screws CHc M5x50
Anbaubefestigung: 2 Schrauben CHc M5x50



RDC 30 MF

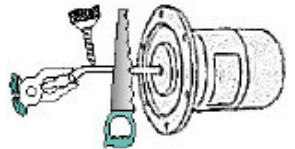
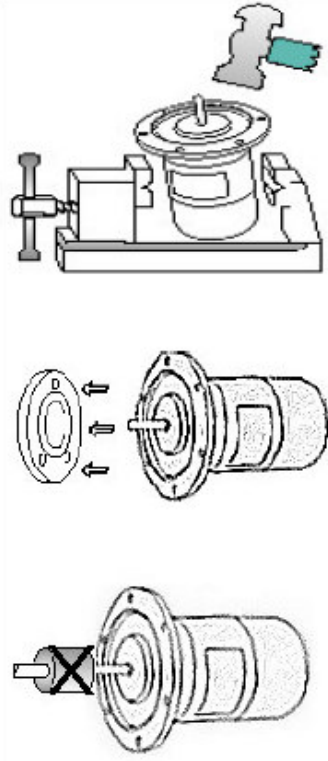
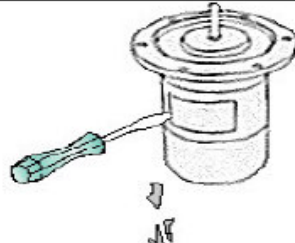
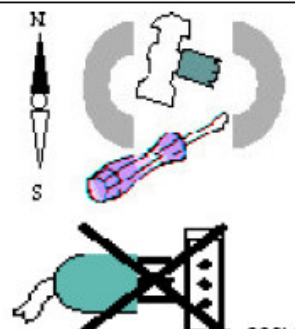
SPARE PARTS
BRUSHES

Type	Dimensions	Collector	Standard	Dimensions	Quantity for each commutator	Quality Standard
205	3.5 x 3 x 9	4	CA	3.5 x 3 x 9	4	CA
206	3.5 x 3 x 9	4	CA	3.5 x 3 x 9	4	CA
207	6 x 4 x 9.9	4	CA	6 x 4 x 9.9	4	CA

208	6 x 4 x 9.9	4	CA	6 x 4 x 9.9	4	CA
210	6 x 4 x 11	4	CA	6 x 4 x 11	4	CA
215	6 x 4 x 11	4	CA	6 x 4 x 11	4	CA
14	4 x 5 x 14	4	CA	4 x 5 x 14	4	CA
16	6.4 x 5 x 14	4	CA	6.4 x 5 x 14	4	CA
30	5 x 4 x 12	4	CA	5 x 4 x 12	4	CA

II

RECOMMENDATIONS

	<p>Caution</p> <p>In order to remain within warranty, mechanic parts must not be modified, the sensor must not be damaged because of non respect of the here-mentioned recommendations.</p>
	<p>It is advisable to avoid shock on the sensor during transportation, assembly...</p> <p>In order to make sure of getting the best performance from tachogenerator, it is important to carry out installation alignment and coupling with the greatest care.</p> <p>An alignment defect, or a poor coupling, can generate a low frequency ripple incorporated into the output signal which is very difficult to filter out.</p> <p>A similar effect may appear when a speed multiplying device is used to drive the generator.</p> <p>Stress transmitted to the shaft must be the lowest, in order to maintain the quality of the signal and to keep the life expectancy of the ball bearings.</p> <p>Vibrations may lead to premature wear of the brushes and the commutator.</p>
	<p>Do not dismount the tachogenerator, any dismounting can alter the calibration, thus cause a distortion of the technical data output.</p> <p>Dismounting of brushes without care and without any mark of their position can increase the noise, alter the output signal and reduce the life expectancy.</p>
	<p>Always take care of the part where magnets are fixed on, because the proximity of metal would demagnetize the magnets (Alnico) and then modify technical data.</p> <p>For that reason, respect mounting instructions and carefully use adapted tools for mounting (screw drivers, keys...).</p> <p>The proximity of ferromagnetic masses may cause a drop in generator voltage.</p> <p>Tachogenerators do not need any power supply. Any plugging to an external current source may destroy the windings.</p>

