

NOTE OF ASSEMBLY
ADAPTATOR SPACER / SPINNER MOUNTING PLATE / DUC HUB on ROTAX 912 – 912S
PROPELLER SHAFT

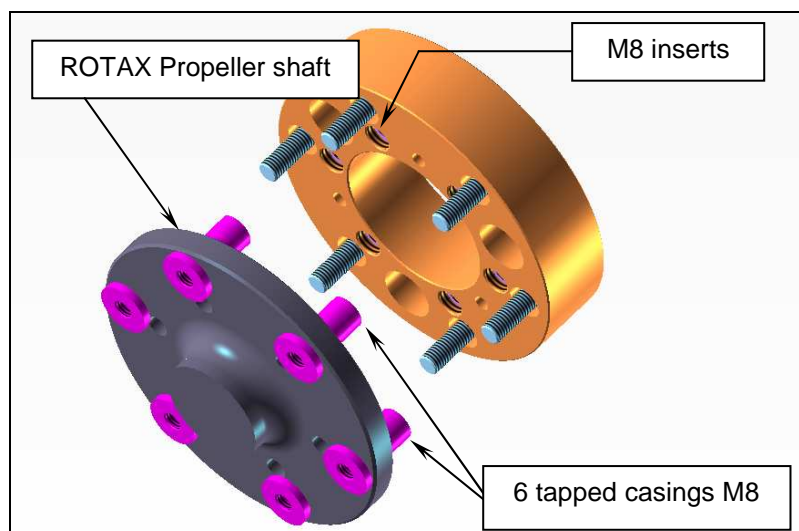
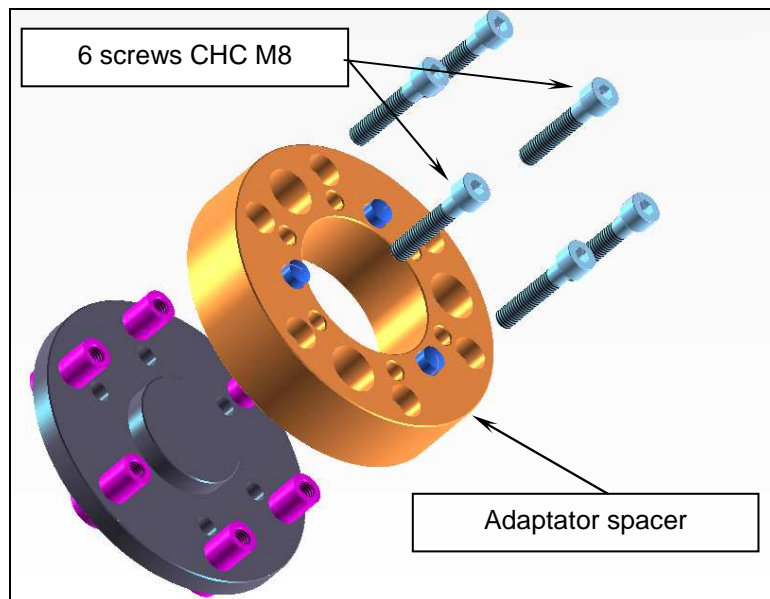
Note reference : 912-912H-A/30

Assembly with adaptor spacer 912 / 912H with DUC spinner

This note of assembly is identical in the case of the assembly of ROTAX 912 propeller shaft old generation (adaptor spacer type 912) and new generation (adaptor spacer type 912H). Only, the diameter of the 6 pawns and their distance between center are different.

- | | | |
|------------------------------|--|----------------------------|
| ▪ ROTAX 912 old génération : | 6 pawns \varnothing12mm on \varnothing100mm | 912 Adaptor spacer |
| ▪ ROTAX 912 new génération : | 6 pawns \varnothing13mm on \varnothing101.6mm | 912H Adaptor spacer |

Opération 1 : FIXING OF THE ADAPTOR SPACER



The adaptor spacer 912 and 912H is available in different lengths:

912 :

- 30mm - 01-58-101
- 45mm - 01-58-109
- 50mm - 01-58-110

912 H:

- 30mm - 01-58-102
- 45mm - 01-58-105
- 50mm - 01-58-108
- 80mm - 01-58-115

Fixing of the spacer :

- Show the adaptor spacer on the ROTAX propeller shaft,
- Check that the 6 tapped casings M8 are in place

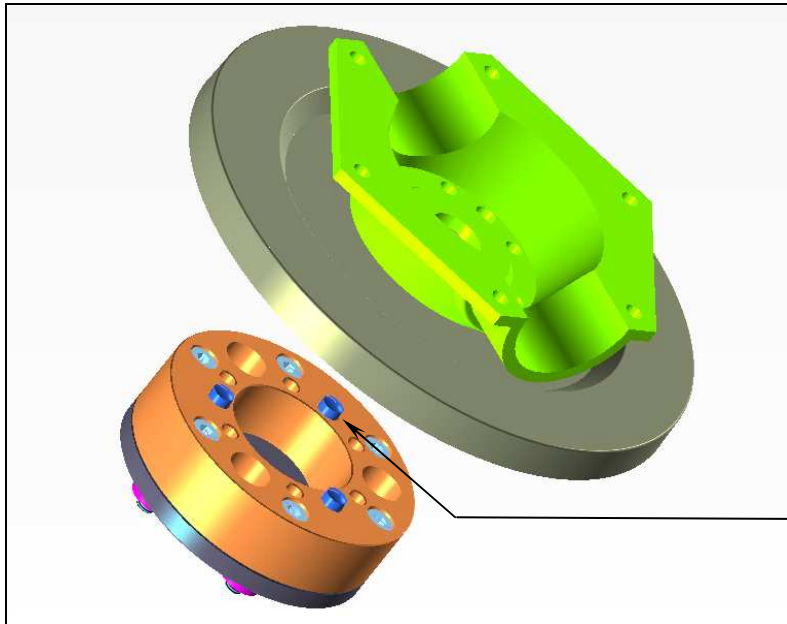
Diameter of pawns :

ROTAX : \varnothing 12 or 13mm

- Tighten the spacer on the propeller shaft with 6 screws CHC M8.

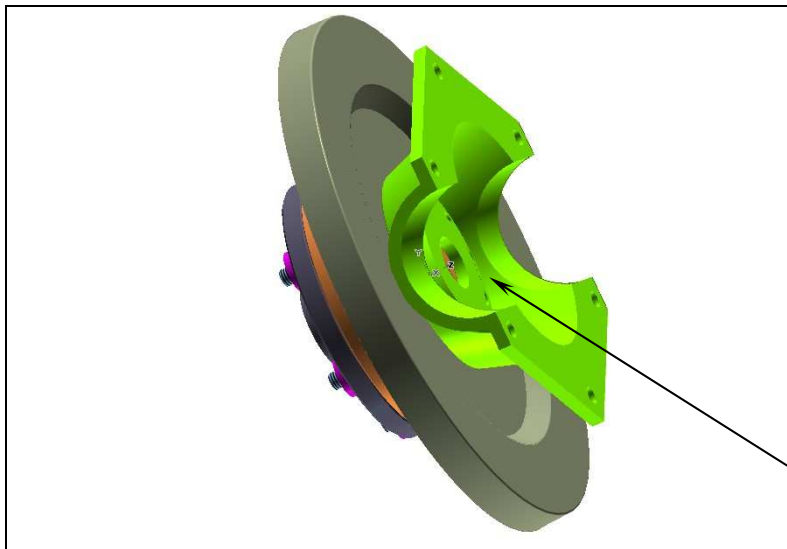
TIGHTENING
2,5 Kg/m
25 N.m

Opération 2 : **FIXING OF THE SPINNER MOUNTING PLATE AND THE HUB**

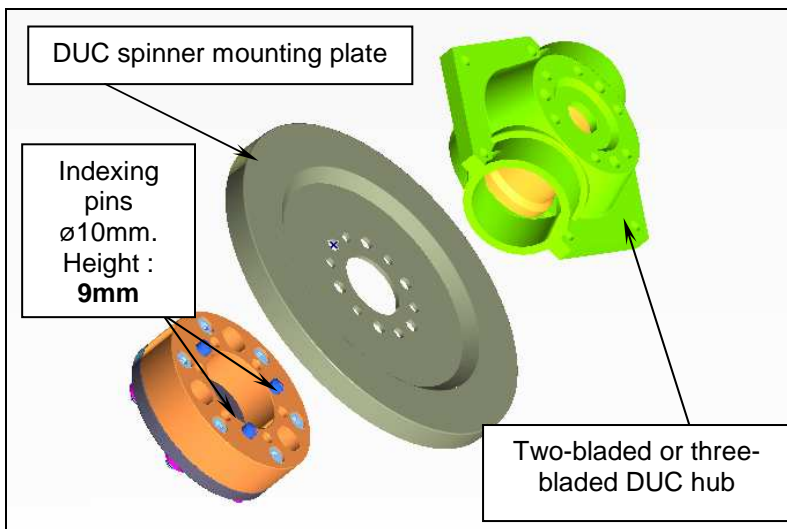
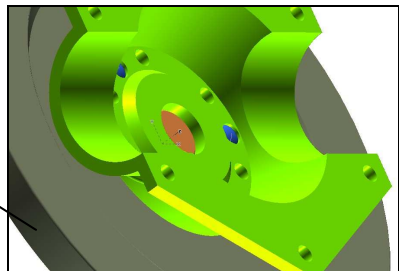


After having to fix the adaptor spacer on the propeller shaft, check if the 3 indexing pins $\varnothing 10$ are well positioned. The height of the pins compared to the spacer must be approximately **9mm**. They must allow at the same time the indexing of the spinner mounting plate and the hub of propeller.

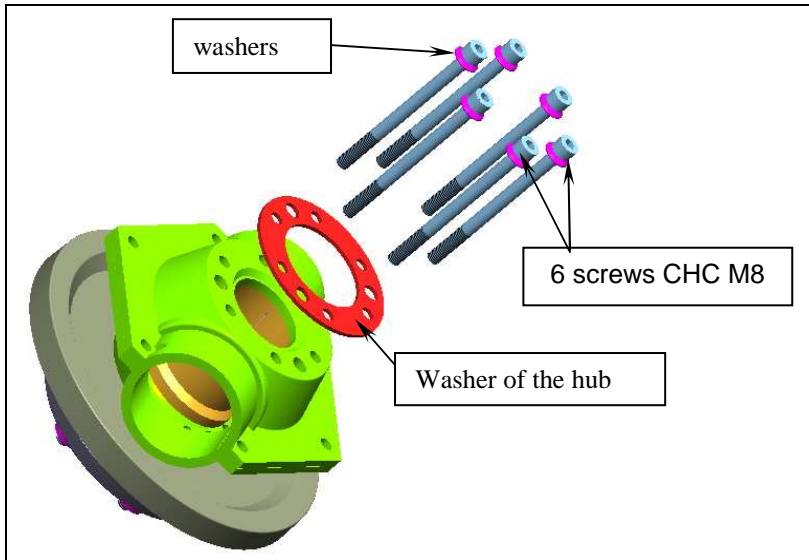
Pins height: 9mm



The 3 pins $\varnothing 10$ mm should not exceed the interior surface of the hub to allow a correct assembly of the blades and not to butt against the aluminum rings of blades.

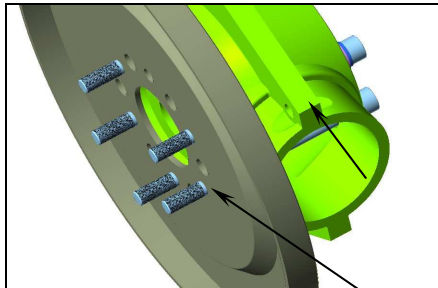


- Once the height of the pins $\varnothing 10$ mm checked, present again to it the DUC mounting plate and the complete two-bladed or three-bladed hub on the adaptor spacer,



- Index the mounting plate and the hub on the 3 pins $\varnothing 10$ assembled on the spacer,
- Mount and tighten the 6 CHC M8 screws in the M8 inserts of the adaptor spacer,

TIGHTENING
2,5 Kg/m
25 N.m



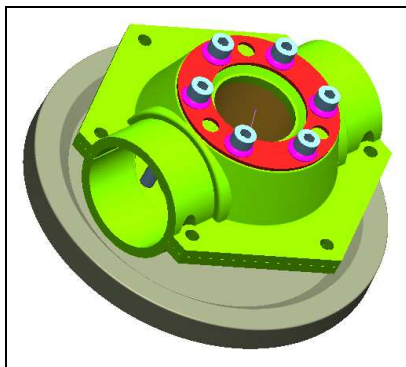
Longueur des vis	
912H30	110 mm
912H45	130 mm
912H50	130 mm
912H80	110 mm

- Insert washers of the assembly of the 6 fixing screws of the DUC propeller hub.

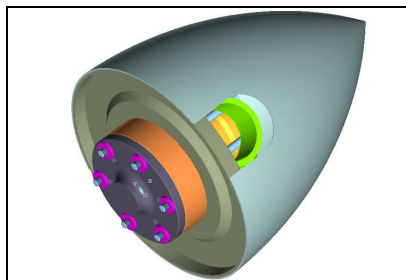
The characteristic of these screws is that the smooth body is sufficiently long to support the shear stress on the level of the hub and the mounting plate.

Shearing surface on the smooth body of 6 screws CHC M8 x110 mm and not on the M8 threading.

Opération 3 : FIXING OF THE SPINNER



Once the assembly of the mounting plate and the propeller hub, assemble the DUC spinner on the mounting plate by positioning correctly the openings of blades.

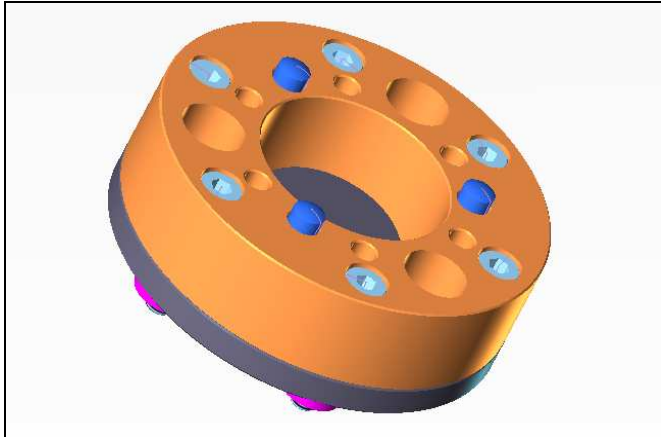


Assembly without DUC spinner mounting plate

Opération 1 : FIXING OF THE ADAPTATOR SPACER

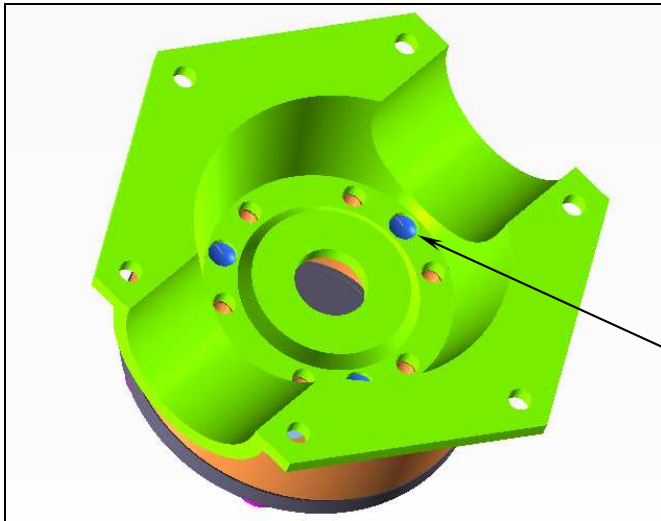
Carry out the assembly of the adaptator spacer on the ROTAX propeller shaft in the same way as previously.

Opération 2 : FIXING OF THE DUC PROPELLER HUB

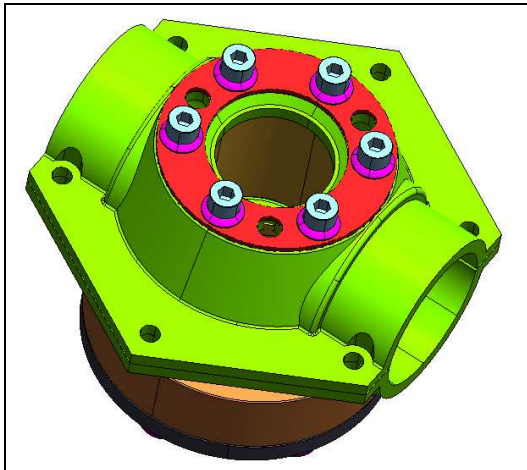


After having to fix the adaptator spacer on the ROTAX propeller shaft, check if the 3 indexing pins $\varnothing 10$ are correctly put in stop in their housing.
The Height of the 3 pins $\varnothing 10$ mm compared to the spacer must be approximately.

5.5mm



The 3 pins $\varnothing 10$ should not exceed the interior surface of the hub to allow a correct assembly of the blades in the hub.



Once the checking of the pins carried out, carry out the tightening of the hub with 6 screws CHC M8 x110 mm with their washers.

TIGHTENING
2,5 Kg/m
25 N.m



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If you note anomalies of assembly or operation, not undertake flight and contact immediately the DUC-HELICES company.

The accessories of assembly and the DUC propeller must be assembled in accordance with the technical notes of the DUC company.

The non-observance of these data would release from any responsibility the DUC company.