

## DUC PROPELLER APPLICATION CHART

The DUC propellers have an **unlimited** flight potential in normal operation. To keep the unlimited potential, DUC Hélices defined a TBO (Time Between Overhaul) for a propeller depending on its engine. Refer to item **5. Potential use & Maintenance** for more information.

Engine	Type	Gear box	Recommended propeller	Propeller diameter (inch)	Blade angle (°)	TBO (hour)	
<b>3 AXIS - TRACTOR</b>							
<b>ROTAX 912</b>	4-stroke	2.273	Two-blade FC WINDSPOON Standard Tractor Right	Ø68"	14°	800	
<b>ROTAX 912S</b>	4-stroke	2.43	Three-blade FC WINDSPOON Standard Tractor Right	Ø68"	12°	800	
<b>ROTAX 914</b>	4-stroke	2.43	Three-blade FC-R WINDSPOON Standard Tractor Right	Ø68"	14°	800	
<b>ROTAX 503</b>	2-stroke	2.58	Two-blade FC WINDSPOON Standard or Inconel Tractor Left	Ø68"	6°	800	
		2.62			8°		
		3	Three-blade FC WINDSPOON Standard or Inconel Tractor Left		14°		800
		3.47			15°		
4	17°						
<b>ROTAX 582</b>	2-stroke	2.58	Two-blade FC WINDSPOON Standard or Inconel Tractor Left	Ø68"	8°	800	
		2.62			11°		
		3	Three-blade FC WINDSPOON Standard or Inconel Tractor Left		17°		800
		3.47			17°		
4	21°						
<b>3 AXIS – PUSHER</b>							
<b>ROTAX 912</b>	4-stroke	2.273	Two-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	14°	800	
<b>ROTAX 912S</b>	4-stroke	2.43	Three-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	12°	800	
<b>ROTAX 914</b>	4-stroke	2.43	Three-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	14°	800	
<b>ROTAX 503</b>	2-stroke	2.58	Two-blade FC WINDSPOON Standard Propulsive Left	Ø68"	6°	800	
		2.62			8°		
		3	Three-blade FC WINDSPOON Standard Propulsive Left		14°		800
		3.47			15°		
4	17°						
<b>ROTAX 582</b>	2-stroke	2.58	Two-blade FC WINDSPOON Standard Propulsive Left	Ø68"	8°	800	
		2.62			11°		
		3	Three-blade FC WINDSPOON Standard Propulsive Left		17°		800
		3.47			17°		
4	21°						
<b>PENDULARS – PUSHER</b>							
<b>ROTAX 912</b>	4-stroke	2.273	Three-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	11°	800	
<b>ROTAX 912S</b>	4-stroke	2.43	Three-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	12°	800	
<b>ROTAX 503</b>	2-stroke	2.58	Two-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	6°	800	
		2.62			8°		
		3	Three-blade FC WINDSPOON Std/Inc. Propulsive Left		14°		800
		3.47			15°		
4	17°						
<b>ROTAX 582</b>	2-stroke	2.58	Two-blade FC WINDSPOON Std/Inc. Propulsive Left	Ø68"	8°	800	
		2.62			11°		
		3	Three-blade FC WINDSPOON Std/Inc. Propulsive Left		17°		800
		3.47			17°		
4	21°						

### OTHER APPLICATIONS

For all other applications, thank you to contact the DUC Hélices company to study the possibility of adapting the FC WINDSPOON propeller.

\* Ø68" = 1727mm

**Note:**

The values of the pitch angle are associated with the engine. This setting should be adjusted according to the aircraft (see **INDICATIONS FOR TESTING**).

DUC PROPELLER  
APPLICATION CHART

<b>TRACTOR CONFIGURATION</b>	
<b>ENGINE</b>	<b>PROPELLER</b>
FOR ROTAX 912 (80 HP) FOR ROTAX 912 ULS (100 HP) FOR ROTAX 914 (115 HP)	Three-blade SWIRL Inconel propeller, right rotation, tractor, 65,4" Three-blade SWIRL Inconel propeller, right rotation, tractor, 68,1" Three-blade SWIRL R Inconel propeller, right rotation, tractor, 68,1"
FOR LYCOMING O-235/O-233 OR CONTINENTAL O200 (UNTIL 120 HP)	Three-blade SWIRL R Inconel propeller right rotation, tractor, 65,4"

<b>PUSHER APPLICATION</b>	
<b>ENGINE</b>	<b>PROPELLER</b>
FOR ROTAX 912 OR 912 ULS (80 OR 100 HP) FOR ROTAX 914 (115 HP)	Three-blade FC WINDSPOON propeller, left rotation, pusher, 68" Three-blade FC WINDSPOON R propeller, left rotation, pusher, 68"
<b>SPINNERS AND MOUNTING PLATES</b>	<b>Standard spinner</b> Three-blade spinner 8,2" Three-blade spinner mounting plate 8,2" Three-blade spinner 9,8" Three-blade spinner mounting plate 9,8" <b>Turbo spinner</b> Three-blade TURBO spinner 8,2" Three-blade spinner mounting plate 8,2" Three-blade TURBO spinner 9,8" Three-blade spinner mounting plate 9,8" <b>Ventilo spinner</b> Three-blade VENTILO spinner 8,2" Three-blade VENTILO spinner mounting plate 8,2" Three-blade VENTILO spinner 9,8" Three-blade VENTILO spinner mounting plate 9,8"

<b>ACCESSORIES</b>	<b>PROPELLER</b>
	Universal adjusting-tool Protective sleeves

REF	PHOTO	NOTE OF ASSEMBLY	SPACER
01-05-001	<a href="#">01-05-001 H-SW 3-D-I-1660-65.4.jpg</a>		<i>in option for Rotax</i> 912H adaptor spacer 0,4"
01-05-001	<a href="#">01-05-001 H-SW 3-D-I-1740-68.1.jpg</a>	<a href="#">DH_SW_BE_02_E-SWIRL</a>	912H adaptor spacer 1,18"
01-12-001	<a href="#">01-12-001 H-SW 3-D-R I-1740-68.1.jpg</a>		912H adaptor spacer 1,96" 912H adaptor spacer 2,36" 912H adaptor spacer 3,15"
01-12-001	<a href="#">01-12-001 H-SW 3-D-R I-1660-65.4.jpg</a>	<a href="#">DH_SW_BE_02_E-SWIRL</a>	<b>OBLIGATORY FOR LYCOMING AND CONTINENTAL</b> Adaptor spacer SAE#1 - 1,2" Adaptor spacer SAE#1 - 2,6" Adaptor spacer SAE#1 - 4"

REF	PHOTO	NOTE OF ASSEMBLY	SPACER
01-01-002	<a href="#">01-01-002 H-FC 3-G-S-1727-68.jpg</a>		<i>in option for Rotax</i> 912H adaptor spacer 0,4"
01-01-004	<a href="#">01-01-004 H-FC 3-G-R-1727-68.jpg</a>	<a href="#">DH_FC_BE_02_F-FC WIN</a>	912H adaptor spacer 1,18" 912H adaptor spacer 1,96" 912H adaptor spacer 2,36" 912H adaptor spacer 3,15"
01-70-001	<a href="#">01-70-001 C-210 3.jpg</a>		
01-70-004	<a href="#">01-70-004 P-210 3.jpg</a>		
01-70-005	<a href="#">01-70-005 C-250 3.jpg</a>	<a href="#">DH_CS_BE_02_C-DUC Sta</a>	
01-70-008	<a href="#">01-70-008 P-250 3.jpg</a>		
01-70-011	<a href="#">01-70-011 C-210 3-T.jpg</a>		
01-70-004	<a href="#">01-70-004 P-210 3.jpg</a>		
01-70-014	<a href="#">01-70-014 C-250 3-T.jpg</a>	<a href="#">DH_CT_BE_02_C-DUC Tu</a>	
01-70-008	<a href="#">01-70-008 P-250 3.jpg</a>		
01-70-015	<a href="#">01-70-015 C-210 3-V.jpg</a>		
01-70-018	<a href="#">01-70-015 C-210 3-V.jpg</a>		
01-70-019	<a href="#">01-70-019 C-250 3-V.jpg</a>	<a href="#">DH_CV_BE_02_B-DUC Ve</a>	
01-70-022	<a href="#">01-70-021 P-250 3-V.jpg</a>		

REF	PHOTO	NOTE OF ASSEMBLY
01-80-001	<a href="#">01-80-001 Adjusting tool.jpg</a>	<a href="#">DH_OR_BE_02_A-Universal adjusting-tool.pdf</a>
01-80-002	<a href="#">01-80-002 Blade protection.JPG</a>	

REF	PHOTO	NOTE OF ASSEMBLY
01-58-103	<a href="#">01-58-103 912H adaptor spacer 10mm.jpg</a>	DH_E912H10_BE_02_C-Assembly instructions Adaptor spacer 9
01-58-102	<a href="#">01-58-102 912H adaptor spacer 30mm.jpg</a>	
01-58-108	<a href="#">01-58-108 912H adaptor spacer 50mm.jpg</a>	DH_E912H30_BE_02_C-Asse
01-58-121	<a href="#">01-58-121 912H adaptor spacer 60mm.jpg</a>	
01-58-115	<a href="#">01-58-115 912H adaptor spacer 80mm.jpg</a>	
01-58-120	<a href="#">01-58-120 SAE1 adaptor spacer 31 mm.jpg</a>	
01-58-118	<a href="#">01-58-118 SAE1 adaptor spacer 67 mm.jpg</a>	DH_ESAE1_BE_02_A-Assemb
01-58-119	<a href="#">01-58-119 SAE1 adaptor spacer 103 mm.jpg</a>	

REF	PHOTO	NOTE OF ASSEMBLY
01-58-103	<a href="#">01-58-103 912H adaptor spacer 10mm.jpg</a>	DH_E912H10_BE_02_C-Assembly instructions Adaptor spacer 9
01-58-102	<a href="#">01-58-102 912H adaptor spacer 30mm.jpg</a>	
01-58-108	<a href="#">01-58-108 912H adaptor spacer 50mm.jpg</a>	DH_E912H30_BE_02_C-Asse
01-58-121	<a href="#">01-58-121 912H adaptor spacer 60mm.jpg</a>	
01-58-115	<a href="#">01-58-115 912H adaptor spacer 80mm.jpg</a>	