

MAIN ROTOR WITH TWO BLADES

For the helicopters with take-off weight up to 50 kg and rotor diameter 2600 mm (102.36")

For the helicopters with take-off weight up to 140 kg and rotor diameter 3200 mm (126")

The one-step blade molding of polymer composite materials technology and an improved aerodynamic shape affect dramatically on the performance of the machine.

UAVOS' solution uses a technology of hot composite 'prepreg' material forming, that allows to manufacture the blade airfoil in a single step molding. This method eliminates the delamination of the lower and upper planes due to absence of glue seam. Besides that, this technology allows to warp and to narrow the blade that increases strength and rigidity and provides high aerodynamic characteristics, prolongs lifespan, decreases production cost, improves performance, and increases flights reliability under high operating temperatures.



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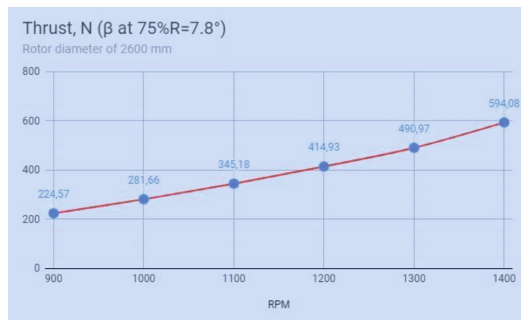
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For the helicopters with take-off weight up to 50 kg and rotor diameter 2600 mm (102.36")

SPECIFICATIONS

Length	1230 mm
Width	76-38 mm
Thickness	12.5-4.5 mm
Root thickness	12.5 mm
Mounting Hole Size	6 mm
Rotation	Left (CCW) or right (CW)
Twist	10°
Material	Carbon fiber (prepreg)
Max. RPM	1300

Weight	0.42 kg
MTOW (2 blades)	50 kg



For the helicopters with take-off weight up to 140 kg and rotor diameter 3200 mm (126")

SPECIFICATIONS

Length	1453 mm
Width	100-50 mm
Thickness	16.5-6 mm
Root thickness	16-16,5 mm
Mounting Hole Size	12 mm
Rotation	Left (CCW) or right (CW)
Twist	9,5°
Material	Carbon fiber (prepreg)
Max. RPM	1300

Weight	0.72 kg
MTOW (2 blades)	140 kg

