PROPELLER
28.5x12 3B GAS S

PN: 328623
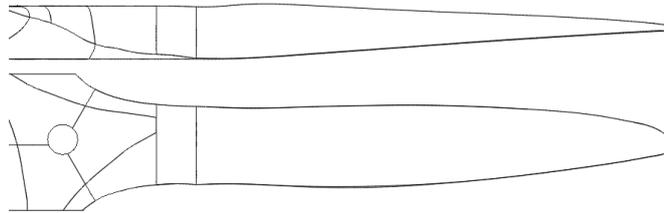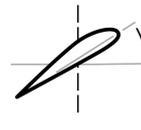

*Illustrative image only

328 g Mass	28.5" Diameter	12.0" Pitch	Fixed wing

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Engine/Motor type:	Gas
Rotation direction:	Counter-clockwise (Direction Guide)
Mass [g]:	$328 \pm 10.0\%$
Moment of inertia [kgm^2][1]:	2.15e-02
Core diameter [mm]:	54 (Drilling guide)
Limit RPM[2]:	6300
Working temperature [°C]:	from -20°C to 60°C
Production method:	Wet layup

[1] Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^o of blades$
[2] RPM is limited by tip speed; forward speed reduces the limit.

For more information or custom propeller options, contact info@mejzlik.eu.
Operation manual: Propeller Maintenance and Repair Manual

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Dynamic Performance Data

Simulated data - at 4900 RPM
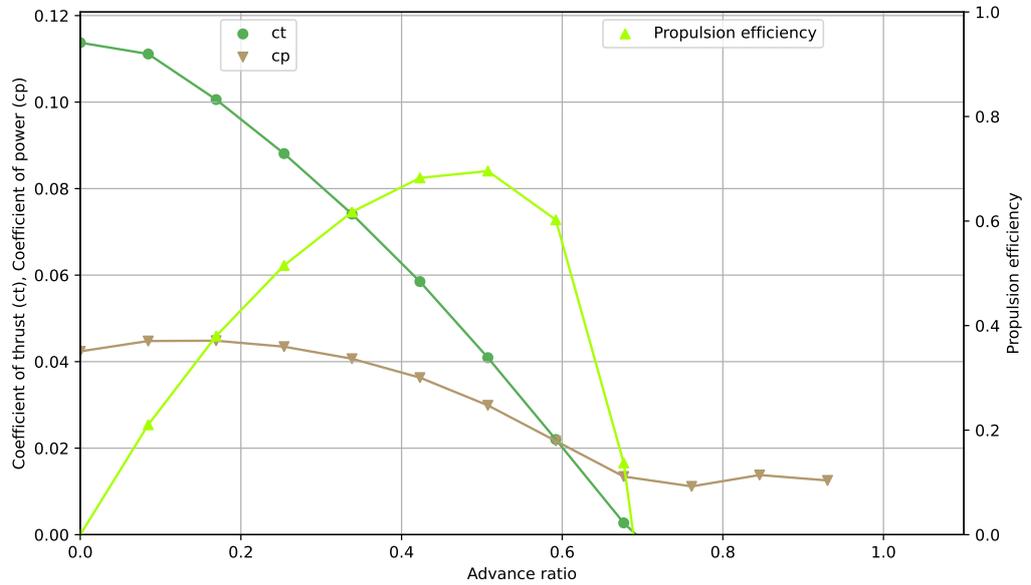
v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1137	0.0424	0.0	0.0
5.0	0.1111	0.0448	0.2103	0.0846
10.0	0.1006	0.0448	0.38	0.1692
15.0	0.0881	0.0435	0.5151	0.2537
20.0	0.0741	0.0407	0.6175	0.3383
25.0	0.0585	0.0363	0.6826	0.4229
30.0	0.0409	0.0299	0.6956	0.5075
35.0	0.022	0.0217	0.6023	0.592
40.0	0.0027	0.0134	0.1373	0.6766
45.0	-0.0121	0.0112	-0.829	0.7612
50.0	-0.019	0.0138	-1.1667	0.8458
55.0	-0.0282	0.0125	-2.096	0.9303

$$C_T = \frac{T}{\rho\, RPS^2\, D^4} \qquad C_P = \frac{P_{mech}}{\rho\, RPS^3\, D^5} \qquad \eta = \frac{C_T \cdot J}{C_P} \qquad J = \frac{v_{inf}}{n \cdot D}$$