



Propeller & Wing

Propellers propellant

capture enegy turbines

Software turbine propellers wings

Index

advancement propeller advance J

• Propeller advance:

The parameter of advancement, ([propeller advance](#)), is a dimensionless coefficient enabling comparison between the propellers of different sizes.



The parameter of advancement, ([propeller advance](#)), $J = \frac{\text{fluid velocity upstream}}{\text{(propeller diameter} \times \text{propeller rotations per seconde})}$

project parameters

delta pressure upstream downstream pascals	380,017151
DHP_dé	Display the parameters of the project
efficiency eta similitude	0,06182466
Element number generating less torque	0,9400169
Element number generating max torque	1
Element number thrust_min	4
factor activity blade	173,087921
factor activity propeller	346,175842
fluid passage m	0
Kq	0,08249261
Kt	0,2866036
mass flow upstream ring Kgs	205,0278
Max thrust element number	4
No translate eta_o	0,938579857
P_similitude	82,90822
percentage loss tip blade (no induction)	28,2680244
percentage loss tip blade (with induction)	29,14218
Performance Workforce Expansion Kinetics Power shaft	0,9394617
Propeller shaft Power KW	0,08290822
Propeller thrust N	-45,8441925
Propeller torque Nm	-5,27810144
selected element Index	4
sigma	1018,77271
similitude advancement parameter gamma	1,7
similitude figure of merit	0,236193329
similitude power coefficient Khi	0,5183163
THP_thrust_horse_power	0,0580273829
Thrust coefficient (tau or tau) similitude Kt	0,2866036
total blade lift number	38,85785
Workforce Expansion sum power ring kinetic energy W	77,88911

▷ Analysis Off design and reverse engineering
▷ Analysis Wing
▷ Blade Generator

similitude advancement parameter gamma

similitude advancement parameter gamma (γ) (Anglo-Saxon: J) (used for ship propellers) = Upstream velocity v_∞ / (rotation per second * diameter propeller)

The **propeller advance** can also be seen in the parameters of the propeller advance.

Modeling aerial propeller in heliciel



Modeling boat marine propeller ineliciel



Modelisation helice ventilation dans heliciel



Modeling propeller ventilation in heliciel



tidal turbine modeling in heliciel



Kaplan propeller modeling in heliciel



[websites Mecaflux & Heliciel](#)

[Tutorials](#)

[Softwares](#)

[Client Area](#)

[Contact](#)

[Cart](#)



[Products](#) | [Store](#) | [My Mecaflux](#) | [My Licences](#) | [Key generator](#) | [My cart](#) | [Contact](#)

Copyright © 2015 Mecaflux. All rights reserved.

[Terms of sale](#) | [Privacy and cookies](#)