

Resources International, Inc.

‘Wind Tunnels’

AEOLUS AERO TECH, Pvt. Ltd.

‘**Aeolus Aero Tech Pvt. Ltd.**’ (Aeolus) based in Bengaluru, Karnataka, India, provides a wide range of Products, Services and Technology Solutions in Alternative Energy, Automobile, Aeronautical, Space Tech, Defense and General Engineering OEMS. Aeolus offers a variety of equipments for laboratories to cater to R & D (educational & industry uses) and for academic institutions.

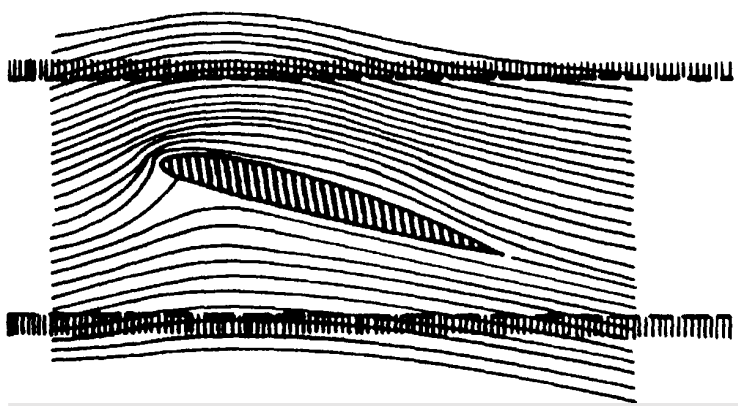
- ✓ Global Leader in Aerospace Products and Services
- ✓ Delivers affordable, high Technology Solutions
- ✓ Uncompromising Business Ethics & Delivery
- ✓ World class Technical Expertise & Collaboration
- ✓ Dedicated to Customer Satisfaction & Mission
- ✓ Assist with Manufacturing, Assembly and Testing
- ✓ Provide Life-time Engineering & Technical Support
- ✓ Champion Alternative, Green Energy Solutions

Aeolus Products & Services Domains

1. Educational Labs
2. Heat Pipes & Thermosyphons
3. Wind Tunnels
4. Space Science Products
5. Micro-Gravity Research
6. CubeSat: Design, Develop & Deploy
7. Wind Energy Technologies (500 W to 5 KW)

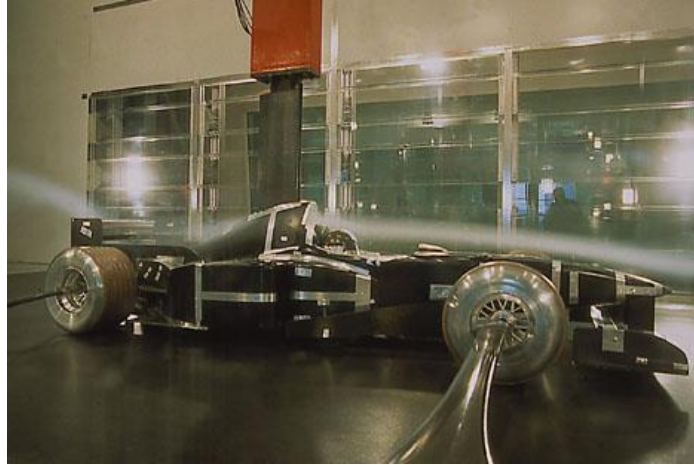
a) **Effect of Wind:** A number of modern technologies and machines enhance life in the 21st century and beyond depend. Critical to understand the effect of wind on many of these such as automobiles, airplanes, space craft, rockets, etc. The performance shall heavily depend on proper design and structure to yield the best efficiency.

Transonic Wind Tunnels



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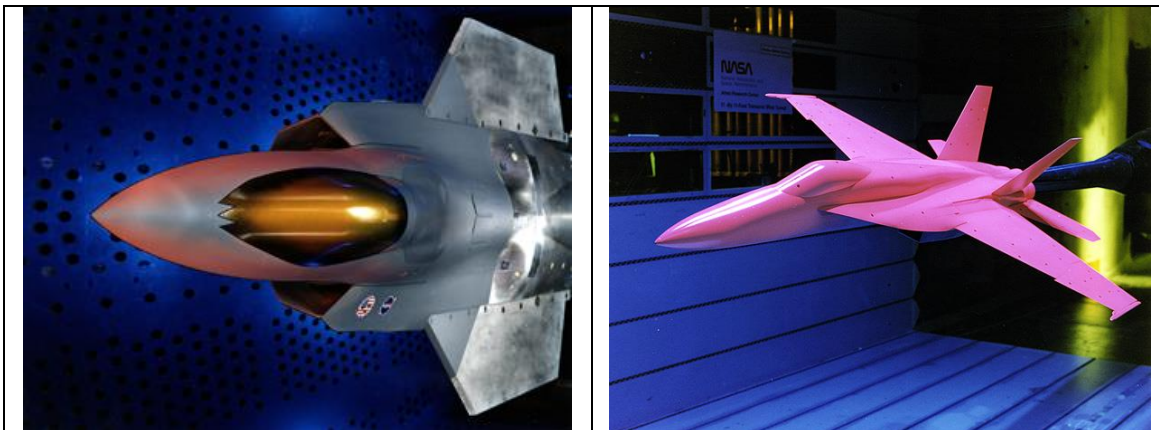
Automobile Applications



b) Technology Convergence: Convergence of a number of technologies such as Info-Nano-Eco and Space Tech may introduce newer opportunities for improvement in all aspects of life, including the Automobile, Aeronautical and Space industries. Wind Tunnels set up in educational institutions that teach in any of these disciplines will help the students understand and learn to design, build and operate better, safer, eco-friendly and energy efficient machines.

- | | |
|---|---|
| <ul style="list-style-type: none">• Subsonic• Transonic• Supersonic• Hypersonic• Cryogenic• Specialty<ul style="list-style-type: none">– Automobiles– Environmental- Icing, Buildings, etc. | <ul style="list-style-type: none">($< \text{Mach } 0.8$)($\text{Mach } 0.8 \sim \text{Mach } 1.2$)($\text{Mach } 1.2 \sim \text{Mach } 5.0$)($\text{Mach } 5.0 \sim \text{Mach } 10.0$)($-150^{\circ}\text{C} \sim -180^{\circ}\text{C}$) |
|---|---|

Aeronautical Applications



c) Wind Tunnels Applications:

- ✓ Space Craft
- ✓ Consumer Electronics (PC / Laptops / Notebooks / Tablets)
- ✓ UPS & Servers

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- ✓ Motor Drives & Controllers
- ✓ Die Molding
- ✓ Telecommunication
- ✓ Transportation

Hypersonic Wind Tunnels

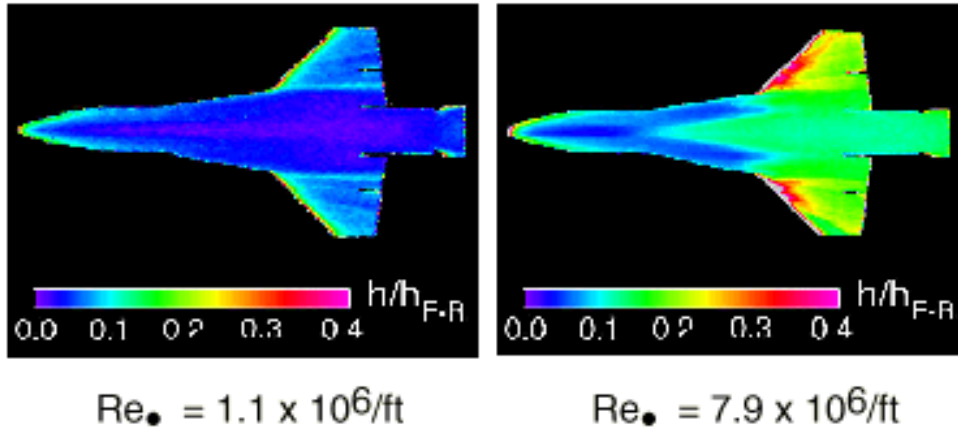


Fig. 6 Effect of Reynolds number on windward heating rates for X-34 at $M_{\infty} = 6$, $\alpha = 0^{\circ}$, and $\delta_{CS} = 0^{\circ}$.

d) INDUSTRY Sector: Industrial Clients handle compliance of importing country regulations and international norms. As required, we offer customized industrial applications

- ✓ Durable components
- ✓ Longer shelf-life,
- ✓ Fully functional and
- ✓ Reliable over its lifetime.

e) Import Formalities: All sales are subject to Client obtaining required approvals and clearances by the respected authorities in their home country and release by the country of origin. Securing required approval / permit / import license / customs clearance, etc. and any related costs are the client's responsibility. Aeolus shall provide the standard shipping documents to facilitate these and offer customized solutions to suit our individual Client's exacting needs.

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PS: '**Resources International, Inc.**' Lexington, KY, USA, established in 1994, is an international Marketing and Import-Export firm, one of a group of privately held, family-owned companies.