

### **Axial Impellers**











#### **Viscosity:** 0 – 3,000 cps



## **Radial Impellers**





http://www.dynamixinc.com/mixing-101-the-basic-principles-of-mixing-and-impellers

# Things to Consider

- Avoiding unwanted flow patterns with impeller design
  - Dead zones, short-circuited flow, vortexing
    - Location of outlet stream
- Viscosity of fluid
- Volume of fluid being mixed
- Diameter of blades relative to tank volume
- Number of blades
- Justify your impeller design based on the system!

# http://www.dynamixinc.com/

- On this website (http://www.dynamixinc.com)
  - Typical uses of each impeller type
  - Important factors for ideal mixing
  - Baffles configurations
- Search google for more design considerations/examples