With abradable coatings, steam path aerodynamics and welded rotor construction, GE’s advanced technology steam turbines provide enhanced plant operability and combined cycle performance. Our single casing, axial exhaust A200 steam turbine and two-casing dual LP flow D200 steam turbine are ideal for 50 and 60 Hz non-reheat applications. Both steam turbines are available for multi-shaft and single-shaft configurations.

**COMMON FEATURES:**

- Increased efficiency due to double shell HP sections and HEAT* technology in the HP and LP modules.
- Standard A200 axial exhaust and D200 side exhaust enables lower equipment foundation height and reduced plant construction costs. Downward facing exhaust is available.
- LP moisture removal features protect the last stage buckets from erosion and improve LP section efficiency.
- Flow admission and extractions are available as required for specific process applications.
- Self-synchronizing clutch improves operational flexibility by reducing auxiliary steam requirements during start-up cycles.
- All models benefit from a large family of last stage buckets that cover a wide range of condenser pressures for any 50 and 60 Hz plant cooling applications.

**A200 OPPOSED FLOW HP AND LP SECTIONS, AXIAL EXHAUST**

- Ships fully assembled, enabling a four-month installation cycle from arrival on-site to turning gear operation.
- Opposed flow configuration increases efficiency.

**D200 DOUBLE-FLOW LP SECTION**

- HP section is shipped fully assembled, enabling a five-month installation cycle from start to finish.
**STEAM TURBINE PRODUCT PORTFOLIO OVERVIEW**

**Power and Performance**
A world leader in the development and application of steam turbine technology, GE has shipped more than 10,000 units totaling over 600 GW since 1901. Our combined cycle steam turbines are specifically configured to contribute to highly efficient and cost effective applications when paired with GE or other OEM gas turbines.

**Solutions to Meet Your Power Needs**
GE’s combined cycle steam turbines accommodate a broad range of site conditions and operational needs while providing the performance needed in today’s demanding energy environment. GE works with customers from the earliest stages of the project, through construction, commissioning, and operation to provide a highly efficient and cost effective turbine that integrates smoothly with the gas turbine and overall plant operations.

**Experience, Strength, and Stability**
Built upon more than a century of steam turbine experience, GE’s steam turbines are manufactured with high quality materials and craftsmanship. Modular product configurations deliver customization options with reliable, proven components.

**Advanced Technology Features**

**High Efficiency Steam Paths**
- High reaction steam path technology allows for the proper application of high efficiency technology for the steam conditions.
- High reaction 3D airfoils in both buckets and nozzles increase efficiency; free vortex flow improves aerodynamics.
- Integral cover buckets with continuous contacting surfaces provide superior damping.
- Nozzle construction that provides individually adjustable radial clearances as well as predictable and controllable throat area.
- Shaft and tip brush seals improve leakage control.
- Abradable coatings on stationary seals enable radial clearance reduction, which reduces long-term degradation.

**Broad Family of Highly Efficient Last Stage Blades**
- Full tip shroud with integral sealing features reduce leakage loss.
- Enhanced tip section with low shock loss.
- Aerodynamic part span connector.
- Increased root reaction improves off-configuration performance.
- Advanced radial vortexing improves performance and hood integration over a range of loads.
- Enhanced dovetail configuration for longer life.

**Low Pressure (LP) Section**
- Side exhaust configuration significantly lowers turbine centerline height when compared to down exhaust machines.
- Shortened hood and inner casing developed through a comprehensive testing program.

**Constructability**
- Hardware modifications to reduce labor intensive field activities such as tops-on/tops-off alignment.
- Installation features like standard fixators, a three-piece flanged cross-over pipe and lube oil flush boxes expedite installation.
- Industry leading construction and commissioning cycles.

**PRODUCT**

### REHEAT
- Up to 2,400 psi/165 bar
- Up to 1,112°F/600°C

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE ST-D650</td>
<td>Up to 42.5%</td>
</tr>
<tr>
<td>GE ST-D600</td>
<td>Up to 42.0%</td>
</tr>
<tr>
<td>GE ST-A650</td>
<td>Up to 41.5%</td>
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<tr>
<td>GE ST-A450</td>
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<tr>
<td>GE ST-D200</td>
<td>Up to 37.0%</td>
</tr>
<tr>
<td>GE ST-A200</td>
<td>Up to 36.2%</td>
</tr>
</tbody>
</table>

### REHEAT
- Up to 1,800 psi/124 bar
- Up to 1,112°F/600°C

### NON-REHEAT
- Up to 1,800 psi/103 bar
- Up to 1,000°F/538°C

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