## Formed and Fabricated Materials manufacturing process

<table>
<thead>
<tr>
<th>Hot working</th>
<th>Heat treatment</th>
<th>Cold working</th>
<th>Lathe turning</th>
<th>Inspection</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel bars</td>
<td>Vertical type forging</td>
<td>Heat treatment</td>
<td>Heat treatment</td>
<td>Lathe turning</td>
<td>Products</td>
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<tr>
<td></td>
<td>Horizontal type forging</td>
<td></td>
<td>Cold roll turning (CSP)</td>
<td>Inspection</td>
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<td></td>
<td>Vertical type hot ring rolling</td>
<td>Heat treatment</td>
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<td>Tubes</td>
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## Special Materials (Metal Powders/Powder Metallurgy Products) manufacturing process

- **Special Alloy manufacturing process** is also noted in the Special Steel Bars and Tubes manufacturing process section.

### Melting/Powder manufacturing
- Vacuum melting/ Gas atomizing
- Metal powder
- Canning
- HIP
- Forging/Rolling
- Machining

### Hot working
- Lathe turning
- Inspection
- Products

### Cold working
- Lathe turning
- Inspection
- Hot rolling products
- Cutting rings
- Lathe turning rings

### Inspection
- Metal powder
- Powder metallurgy products
- Sputtering targets