(1) Fe₃ + CO → Fe⁰ → Fe alloys  BOF 2 ton/ton

2. Fe²⁺ → Fe³⁺ → Fe⁰ → Fe alloys  Pella 1 BOF

3. Fe alloys → "New" Fe alloys  EAF 0.5-1.5 ton/ta

4. Fe³⁺ → Fe²⁺ → Fe⁰ (partial reduction)

BOF → 2 tons/ton raw steel  75% of steel production

- Dominant source of virgin steel

Post Blast Sinter Coke

<table>
<thead>
<tr>
<th>Coke</th>
<th>Blast</th>
<th>Basic Oxygen Furnace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinter</td>
<td>Rillets</td>
<td></td>
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</tbody>
</table>

Raw material prep  Pig  Steel making

Casting  → near finish Schl
Rolling  → 5 lbs