Continuous Casting & Hot Rolling

Continuous casting (right, red arrows)
Method of working steel that conveys steel from its molten state to blooms, ingots, or slabs. The white-hot metal is poured into open-ended molds and continues on through rollers cooled by water. A series of guide rollers further shapes the steel into the desired form.

Hot rolling (left, blue arrows)
Still the primary means of milling steel. This process begins with pre-shaped steel slabs, which are reheated in a soaking pit. The steel passes through a series of mills: the blooming mill, the roughing mill, and the finishing mill, which make it progressively thinner. Finally, the steel is wound into coils and transported elsewhere for further processing.