Big River Steel boasts one of the most innovative hot mills in the world. Our Flex Mill® provides the widest and thickest hot rolled material ever produced by electric arc furnace/compact strip production (EAF/CSP). With hot rolled sizes ranging from 0.054" to 1.0" thickness and 36" to 77.5" width, our hot mill technology is able to produce grades including X-70, X-80 and HSLA 100.

**TUNNEL FURNACE**
Our mill includes the longest and most powerful tunnel furnace in North America featuring 19 control zones which allow for more uniform slab temperatures, thus improving final product mechanical properties. This also allows us to realize energy savings due to a more efficient reheating process. Later phases will include the introduction of induction heating to further enhance the thermal and metallurgical control.

**ROLLING MILL**
Our mill features a 6-stand, 4-high rolling mill with the newest continuous variable crown (CVC) technology available. This helps us provide industry-leading shape, gauge and profile control.

**SLAB THICKNESS**
With slab thicknesses cast from 55mm to 85mm, Big River produces a wider range of material dimensions and strength levels than ever produced from a mini mill.

**SURFACE INSPECTION**
An advanced surface inspection system provides the ability to detect and catalog defects or surface issues while in process.

**COOLING SYSTEM**
Big River’s intensive laminar cooling control system allows us to target specific cooling rates to achieve more accurate, consistent and repeatable mechanical properties throughout the strip. This is important to meet increasingly stringent customer requirements, especially critical in higher-strength applications.

**DOWNCOILER**
Big River’s hot mill also includes an advanced downcoiler with the ability to coil strips up to 1.000 in thick by 780 wide and up to 100k pounds.

**FUTURE EXPANSION**
Construction of the mill includes an additional foundation for a potential seventh mill stand. Initial design also allows for the addition of an induction heating unit at the exit end of the tunnel furnace. Once installed, this unit will further improve Big River’s capabilities with higher grade properties as the slab will enter the rolling mill at higher, more uniform temperatures.