

MON VALLEY WORKS—EDGAR THOMSON PLANT NEW ENDLESS CASTING AND ROLLING FACILITY



United States Steel
Mon Valley Works

Facility Rendering and Fact Sheet

CASTER

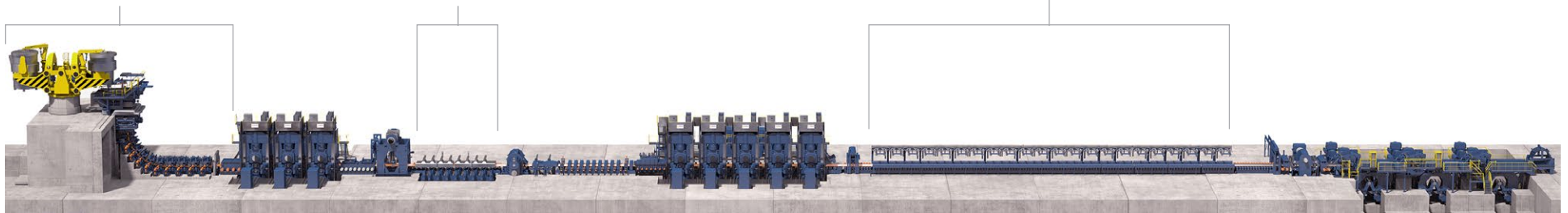
Liquid steel (at 3000°F) produced in the plant's Basic Oxygen Process (BOP) facility is moved to the caster and funneled into molds to form a 4-inch thick slab or continuous strand of steel.

INDUCTION FURNACE

Reheats the slab/strand prior to entry in the final hot rolling stands. This allows precise temperature control, which is essential for maintaining and/or creating the steel's unique physical and mechanical properties.

RUNOUT COOLING TABLE

The steel is water cooled prior to entering the coiler.



INITIAL HOT ROLLING STANDS

The slab/continuous strand of steel passes through rolls that reduce thickness. Uses energy from the hot-cast slab/strand, contributing to energy efficiency gains overall.

FINAL HOT ROLLING STANDS

The steel passes through additional rolls to further reduce thickness to approximately 0.030-inches.

COILERS

The steel will be cut prior to entering one of three coilers. Coils can be shipped to customers as hot-rolled coils, or moved to Irvin Plant for additional finishing.

