

Yard

Electric Arc Furnace (EAF)

YARD OPERATIONS

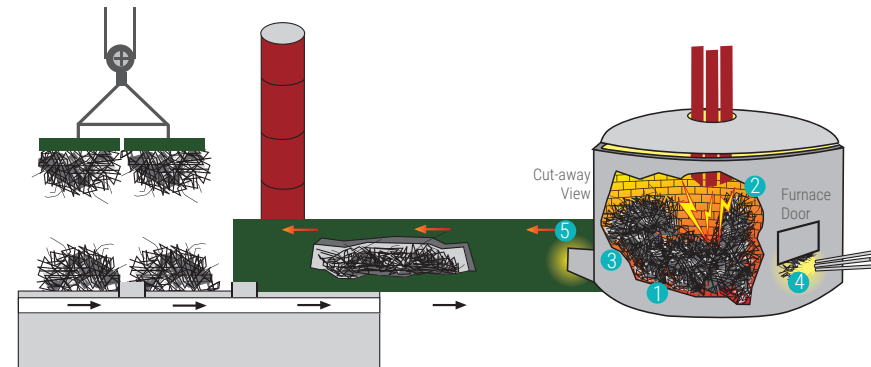
- > Provides over 1,200 tons of scrap metal to the Melt Shop per day
- > Handles 400,000 tons per year of incoming scrap from trucks and rail
- > Provides support services for outbound products shipped by truck and rail
- > Supports baghouse operations; plant sweeping operations



MELTING PROCESS

Scrap steel is melted in 5 Ways

- 1 "Hot heel" practice
- 2 Electrical energy
- 3 Natural gas energy
- 4 Chemical energy
- 5 Exhaust heat



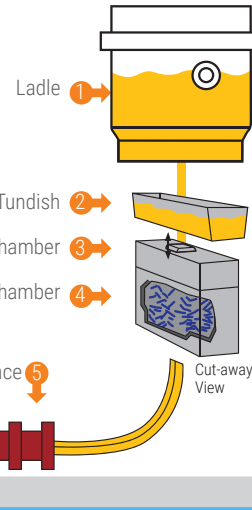
Rolling Mill

Continuous Caster

Ladle Metallurgical Station (LMS)

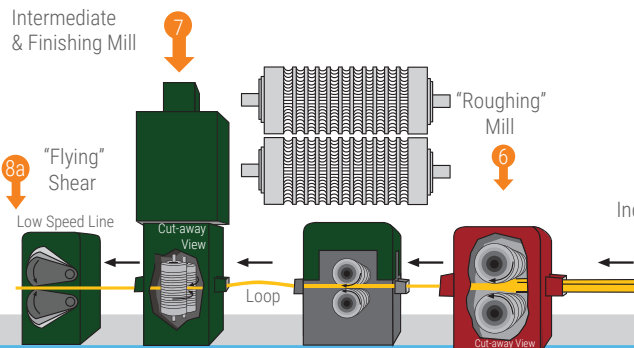
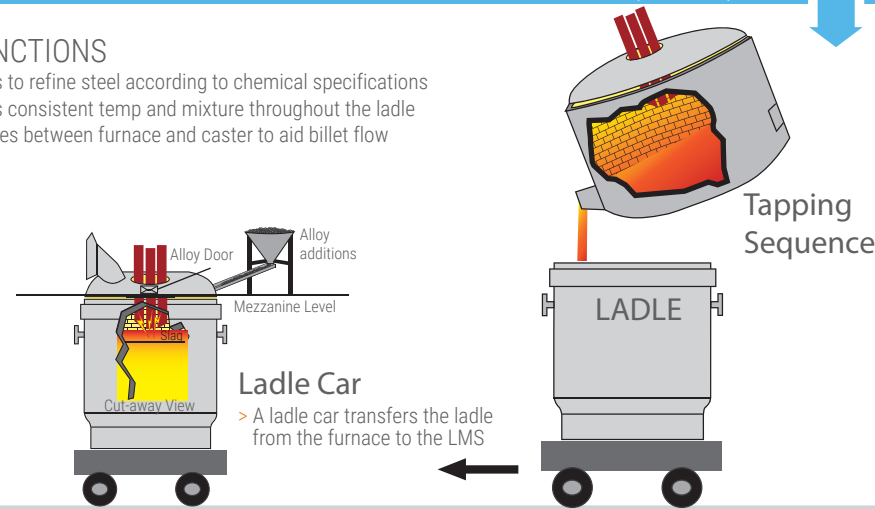
CASTER

- > Forms liquid steel into a 5 5/8" octagon section in a continuous strand
- > The solidified strand exits the caster and enters the induction furnace to be prepared for rolling



LMS FUNCTIONS

- > Adds alloys to refine steel according to chemical specifications
- > Establishes consistent temp and mixture throughout the ladle
- > Stages ladles between furnace and caster to aid billet flow



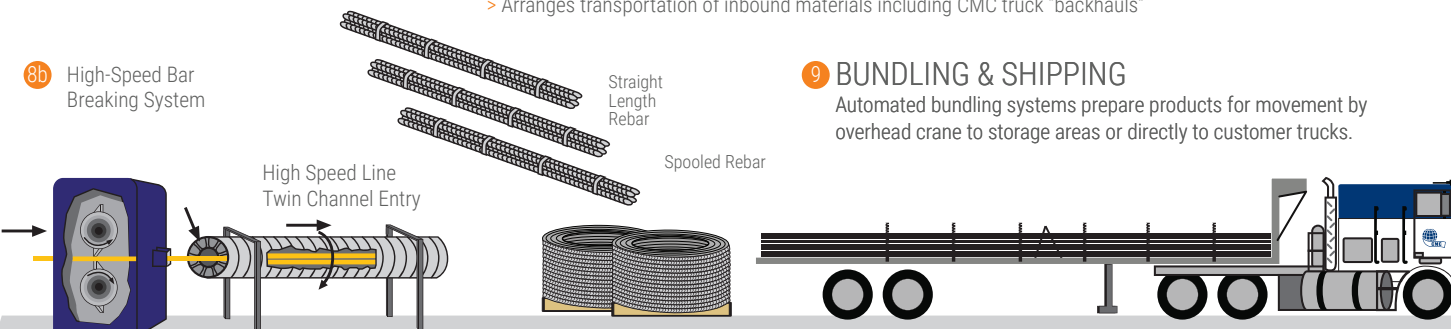
Finishing & Transportation

FINISHING & TRANSPORTATION

- > Loads CMC trucks, customer trucks, and commercial carriers
- > Arranges shipment of all finished products
- > Arranges transportation of inbound materials including CMC truck "backhauls"

9 BUNDLING & SHIPPING

Automated bundling systems prepare products for movement by overhead crane to storage areas or directly to customer trucks.



Micro Mill Process

