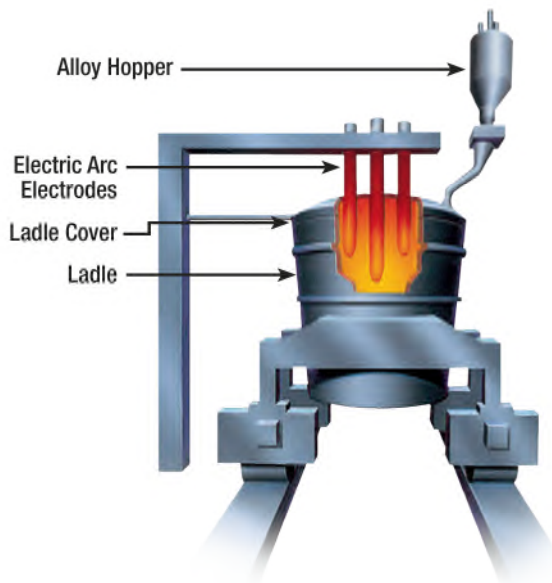
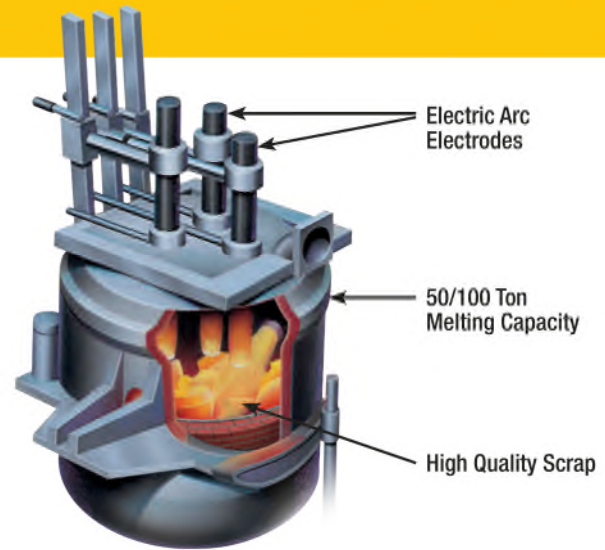


## ELECTRIC FURNACE (EAF)

Beginning with the highest quality prime scrap blend available to meet customer specifications, every charge is melted in high efficiency electric arc furnaces (EAF). Steelmaking practices are strictly controlled to meet or exceed your specified requirements. High purity alloys are added and the tapped heat goes to a series of secondary refining stations.



## LADLE METALLURGY FURNACE (LMF)

After the steel is tapped, refining continues with special fluxes that absorb non-metallic inclusions. Alloys are added to bring the chemistry within specification.

Ultra clean steels are achieved with special refining techniques at the ladle metallurgy station. Chemistry is finely adjusted to the exact specification. Argon gas is injected and thoroughly mixed to homogenize the steel. Chemical segregation is reduced to world-class benchmarks.

## VACUUM ARC DEGASSING (VAD)

When your steel requirements demand bearing quality and aircraft quality micro cleanliness standards, vacuum degassing is the next required step. The steel is subjected to very low partial pressures of vacuum and held for sufficient time to diffuse gases of hydrogen, oxygen and nitrogen. This time also permits all detrimental inclusions to float out from the molten metal and be absorbed by the refining slag.

