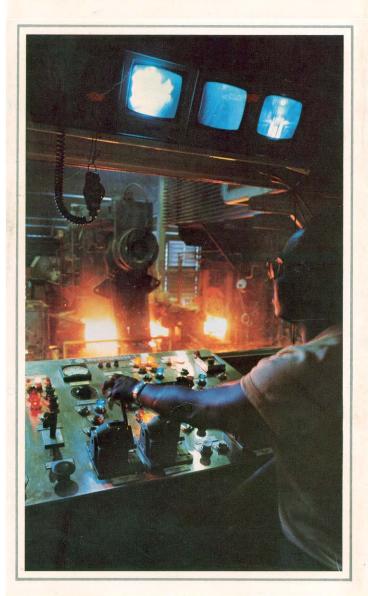
## DISCLAIMER:

These photos depict the 13' Bar Mill after renovation in the 1970's which included filling of the Sub-Basement with concrete, a new floor poured (the Grinding area floor was originally a dirt floor) and the building was completely repainted. The Milling process was modernized and machinery relocated during the renovation. These photos are not indicative of the dusty/dirty conditions of the 1940's & 1950's. The photos have been staged and are not representative of the steelworkers daily attire.

NOTHING SHOULD BE ASSUMED, EVERYTHING MUST BE CLARIFIED BY A SITE EXPERT.



## Lackawanna Plant

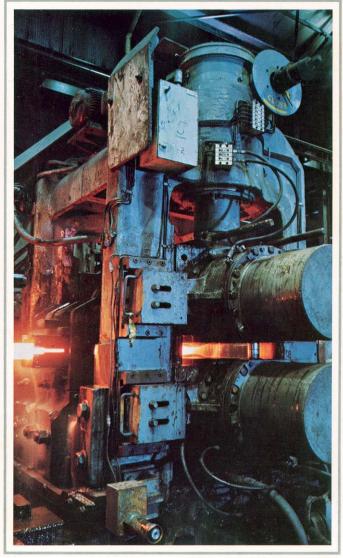




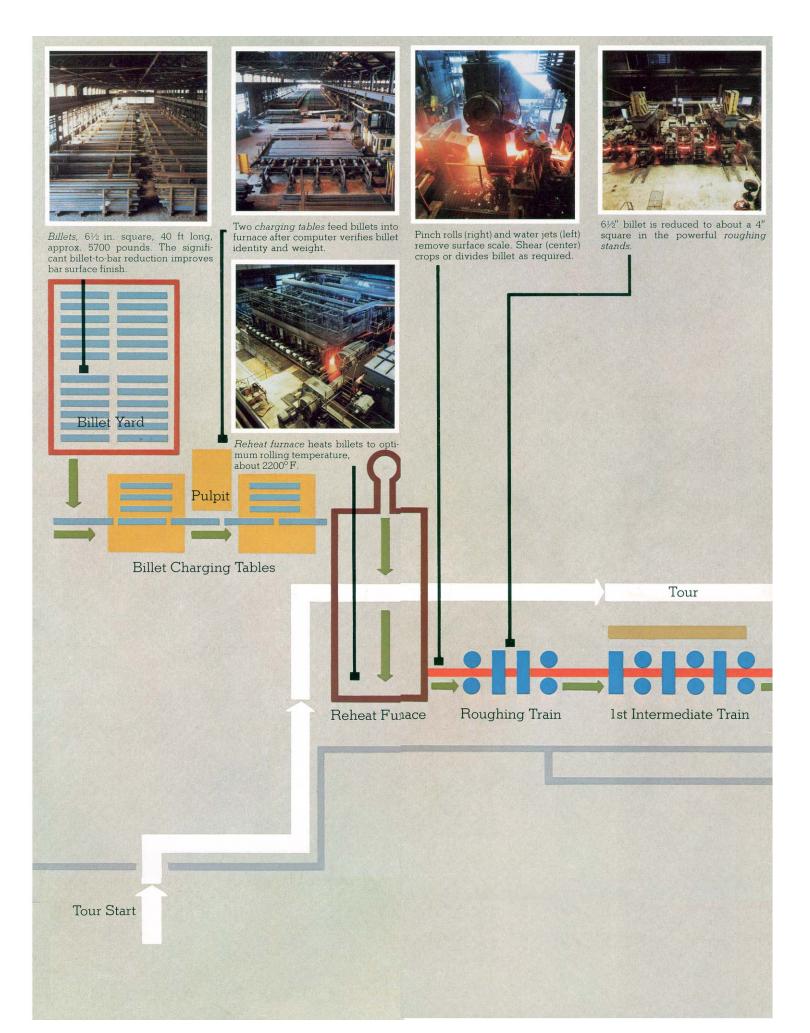
The world's newest and most sophisticated steel bar mill is now on stream. After years of planning, engineering, and construction, the Lackawanna 13" Bar Mill is now producing bars

as advanced in quality as the mill itself is advanced in technology.

The bars from this mill—initially, carbon and alloy rounds from 5/8" to 1-15/16" in diameter—are "quality" in every respect. They consistently meet the standard commercial rolling tolerances for size and section. In fact, our standard product normally is well within these tolerances. The surface quality, internal structure, and uniformity of size make these bars second to none. We ship them straight, in neat, square-end bundles; or in compact coils weighing as much as 5400 pounds, heaviest in the world.



Data current as of December 1977





Alternate horizontal and vertical rolls severely work the hot steel as they reduce it in section. This improves the steel's soundness, mechanical properties, and surface.



Entire rolling operation is supervised from *mill pulpit*, the main monitor and control center of the mill.



A changeover to roll a different size bar can be accomplished quickly and efficiently. Entire stands are moved in and out of the mill line.



As bar speeds along at up to 50 mph, its diameter is checked continuously. Bar dimensions are maintained by computer-directed micro-adjustments of finishing rolls.



Dividing shear makes head and tail cuts for metallurgical testing, and cuts bar into cooling-bed lengths or desired coil weights.

Tour

Nine interstand *loopers* assure tension-free rolling. Computer-controlled *water boxes* maintain proper bar temperatures.

Mill Pulpit

2nd Intermediate Train

Finishing Train

