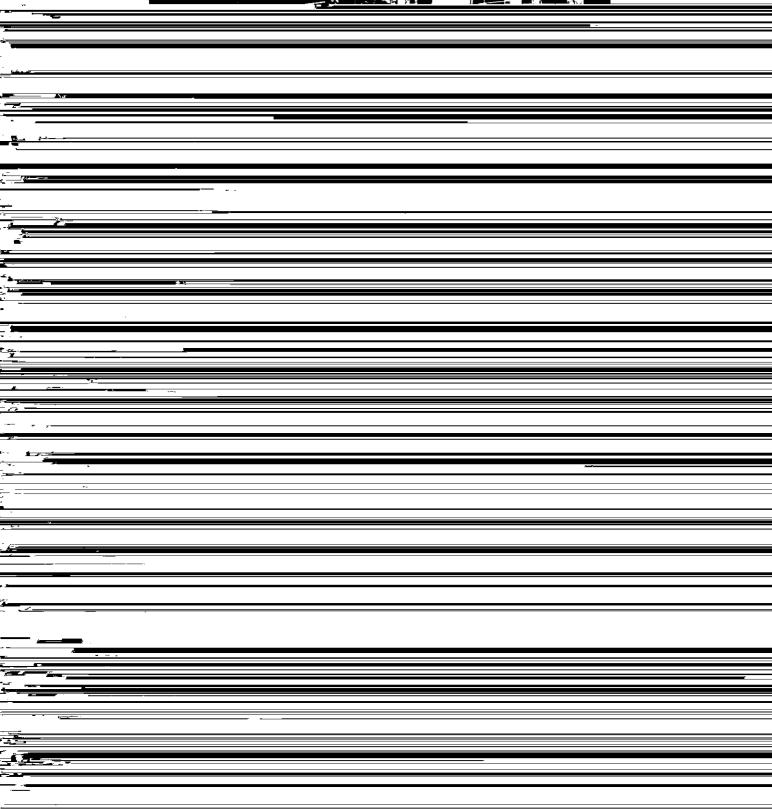


reel to the first looper in Fig. 1. An external view of the entry equipment is shown in Photo. 1. The entry equipment performs the following two functions:

(1) To join cold rolled coils and feed them into the furnace at a constant speed. This function in-

volves: two pay-off reels which uncoil cold coils alternately, a crop rejector to remove off-gauge parts automatically, a narrow lap seam welder to join the preceding strip with the following one, and a looper to store the steel strip to be fed into





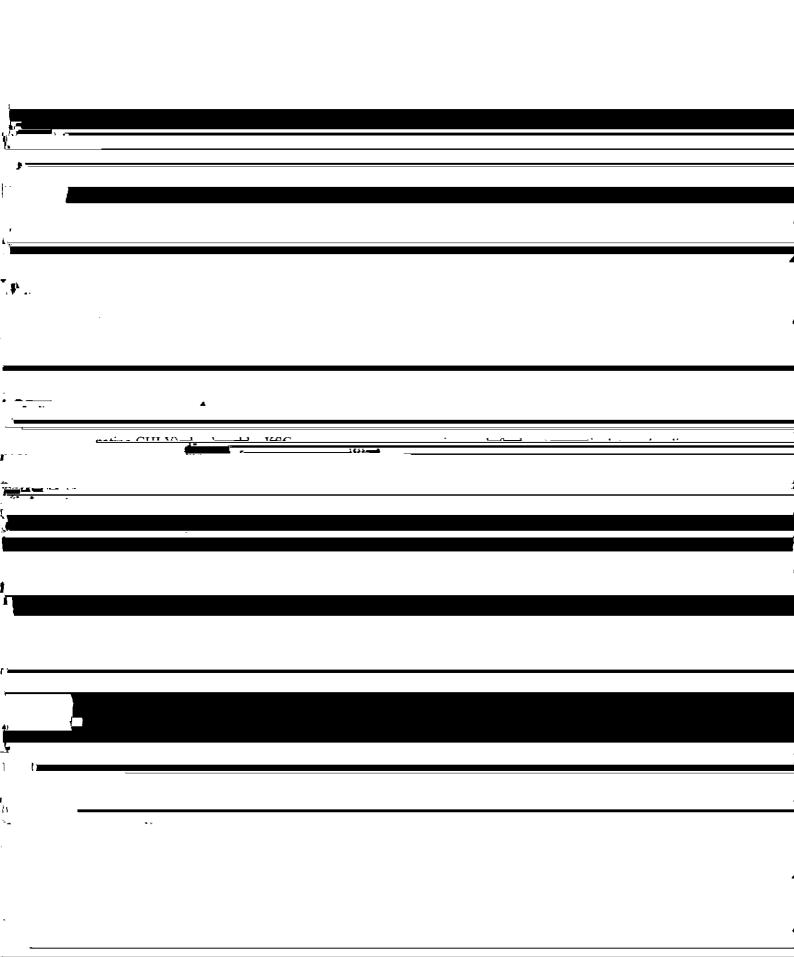
 $30\,\%$  reduction of  $NO_x$  emission in comparison with the furnace during welding. conventional one. (2) To remove rolling oil from the surface of steel strip. The cleaning equipment is designed for tin-For the precise control of temperature, this section 1 .\_\_\_\_\_ ∤, heating pattern can be selected depending on the type The equipment consists of two sets of each 240

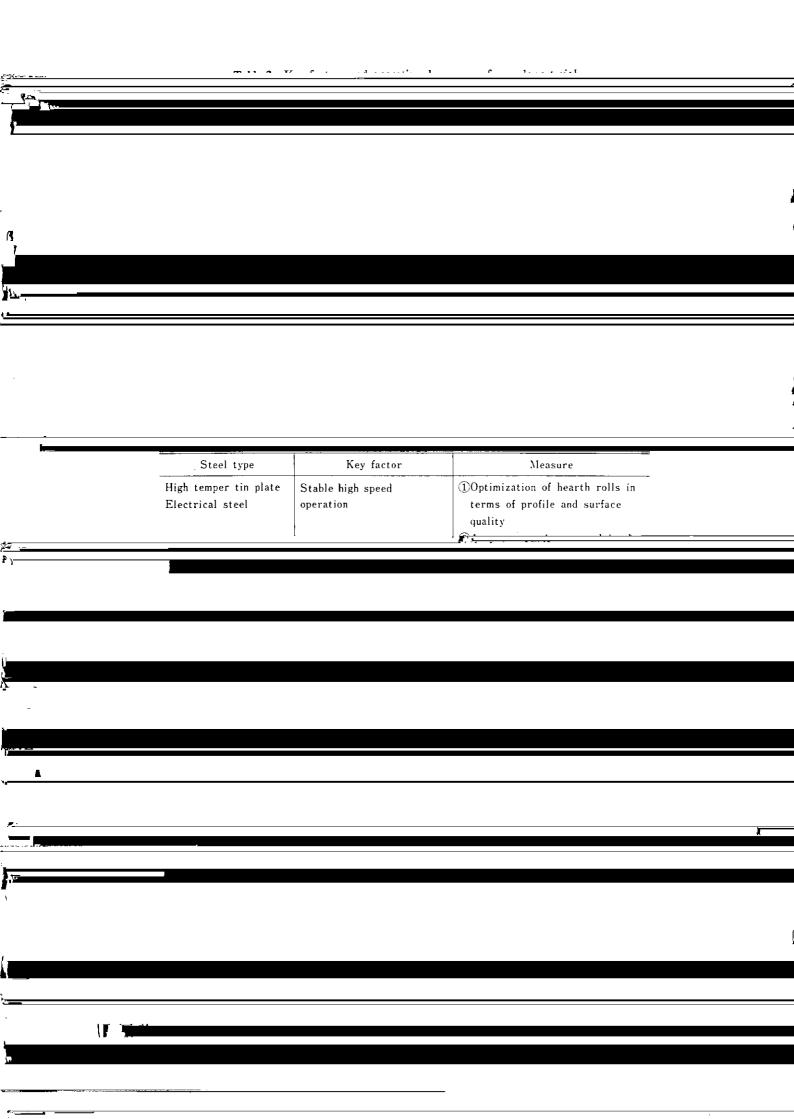
following three modes, as shown in Fig. 2:

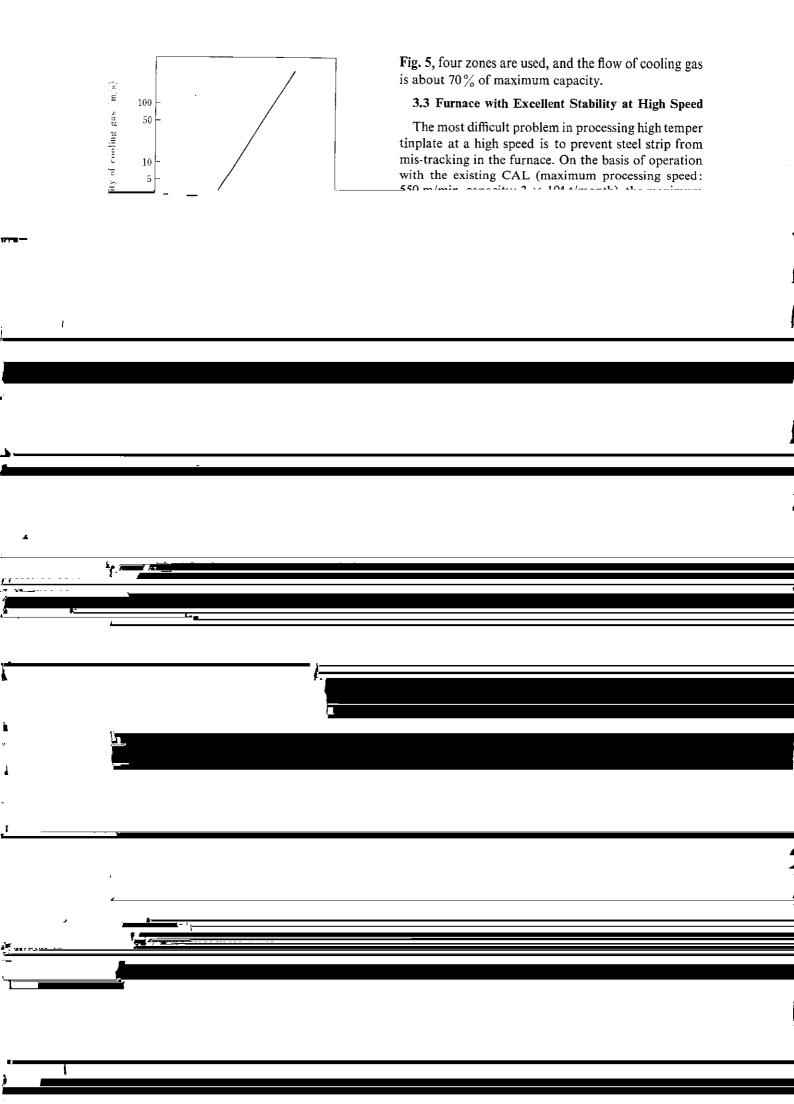
(1) Rapid cooling of strip to around room temperature, to be used for dual-phase cold rolled sheet steel with high tensile strength (commercial disignature).

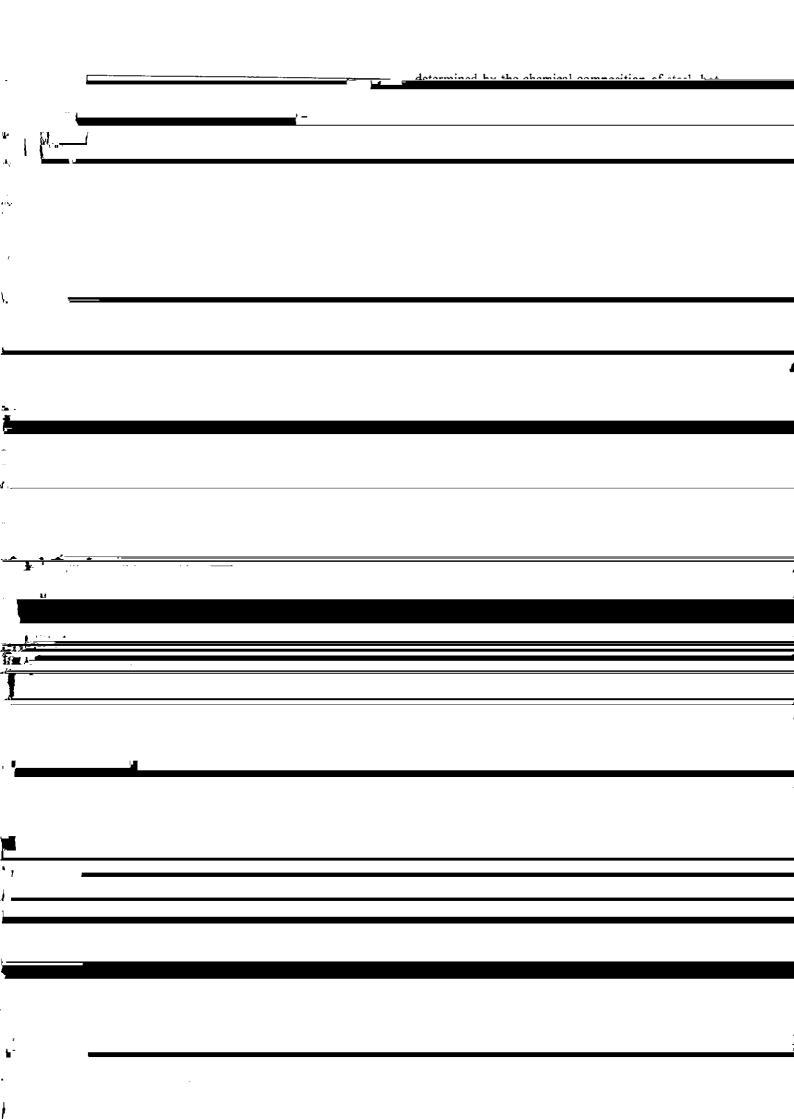
## 2.3.4 Second cooling section

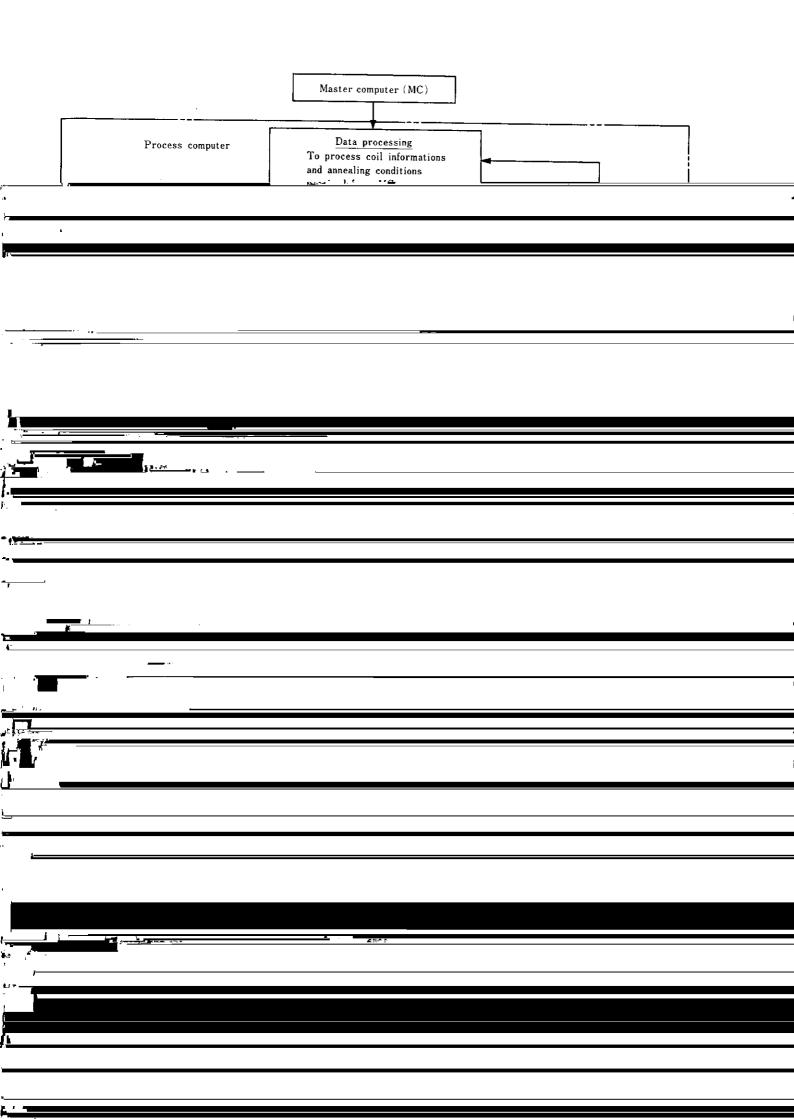
Since this section is used in the slow cooling mode

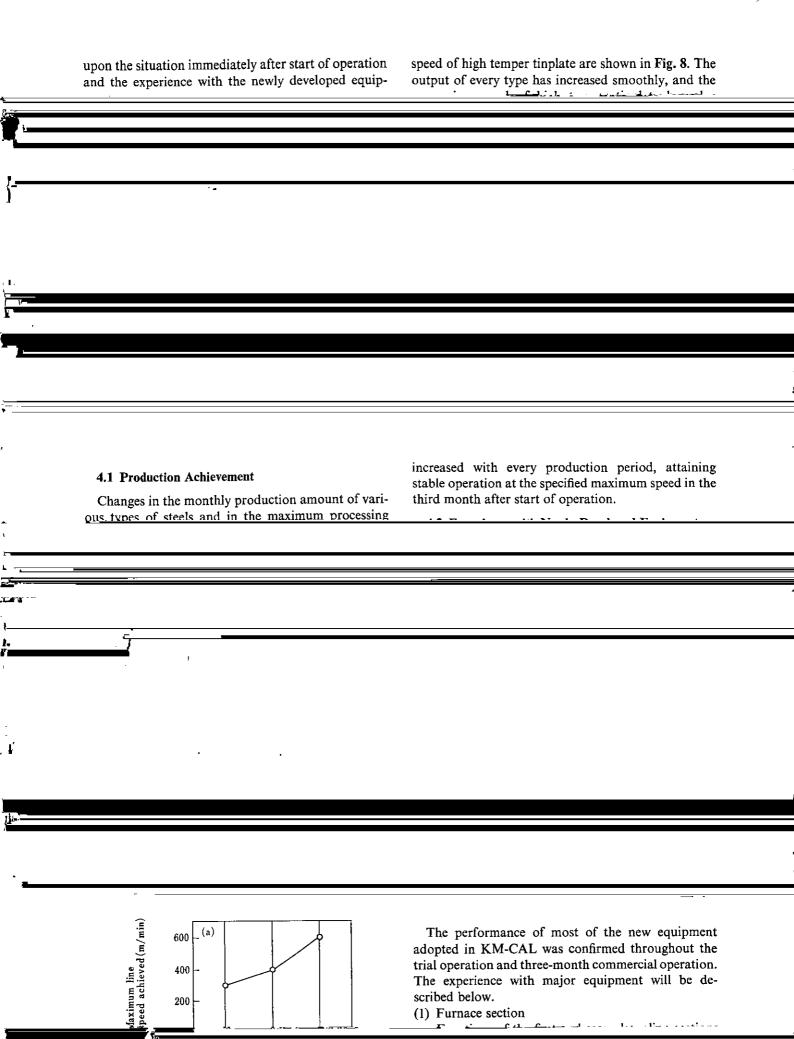


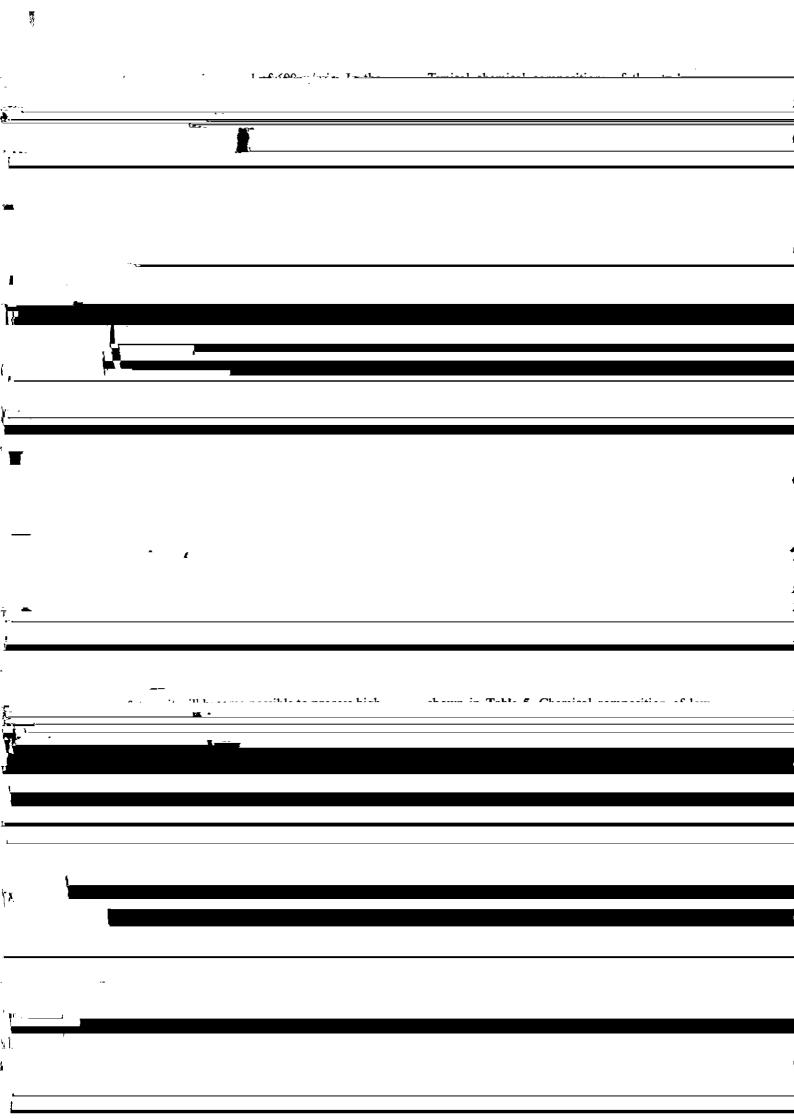












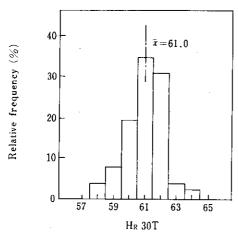


Fig. 11 Hardness distribution of high temper tinplate (T4-CA)



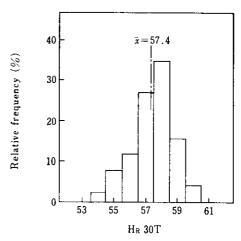


Fig. 12 Hardness distribution of low temper tinplate (T3-CA)

(4) Dual phase cold rolled high strength steel, CHLY

	For this reason, KSC's CHLY, which is free from yield point elongation phenomenon immediately	(1) High temper tinplate was processed as fast as 600 m/min through the improved hearth roll and the	
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