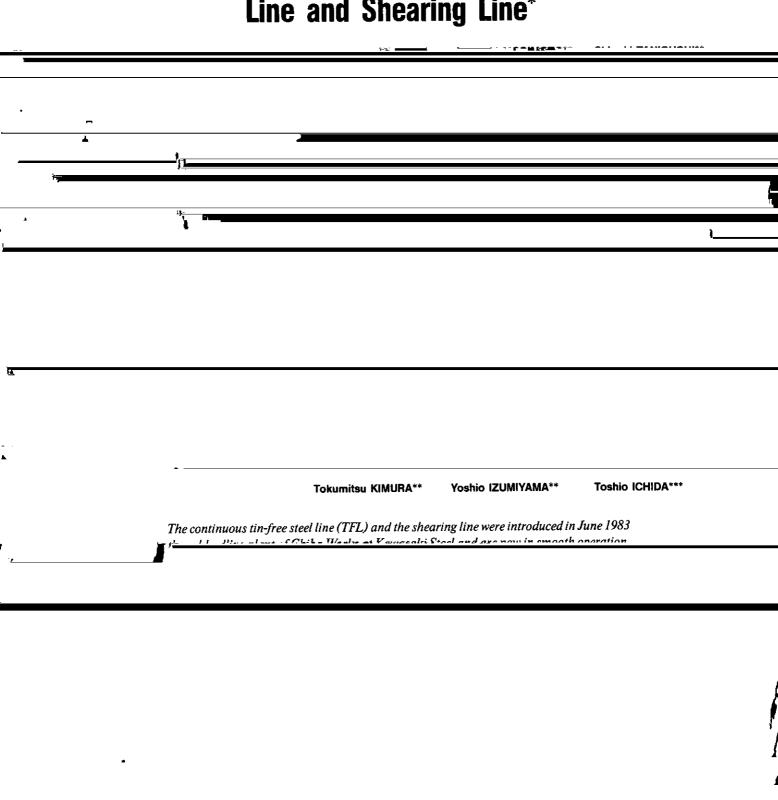
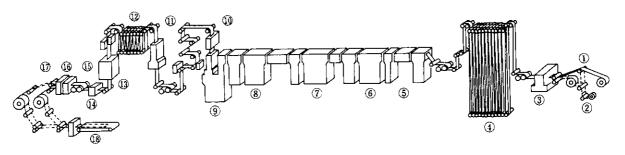
## An Outline of New Continuous Tin-Free Steel Line and Shearing Line\*



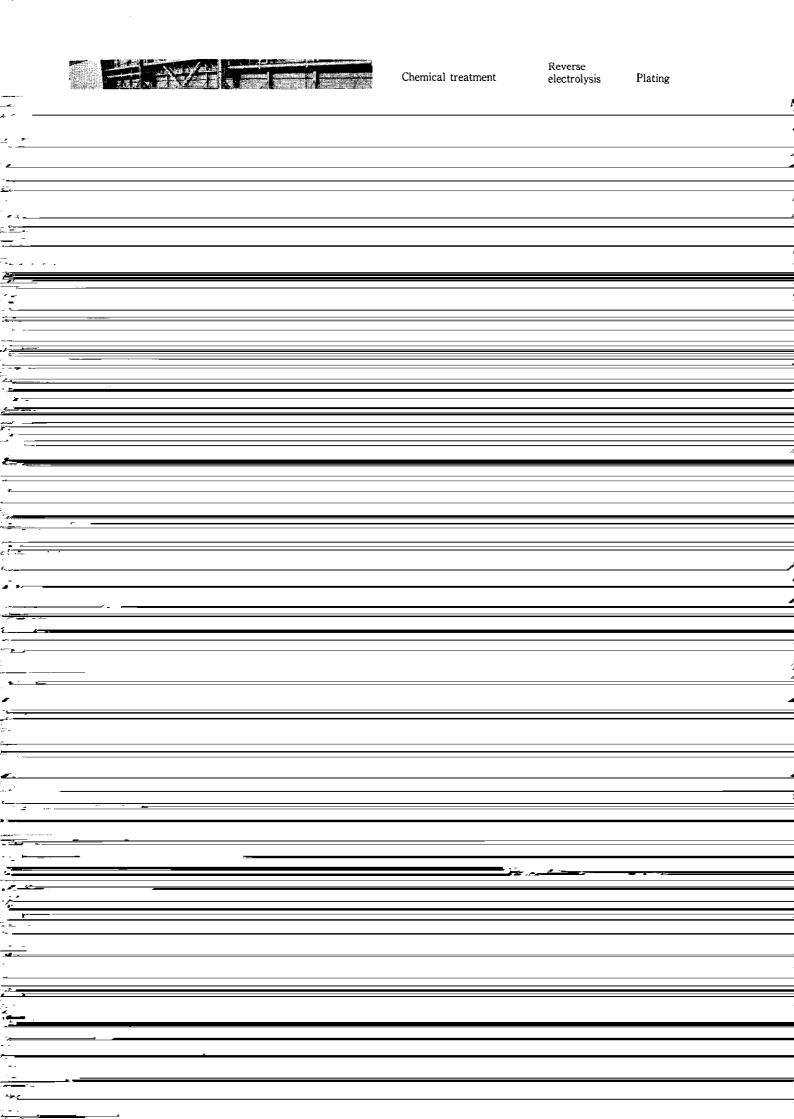


- ① No.1 and 2 pay-off reels
- 7 Plating tank
- (R) Chemical treatment\_tank
- Inspection roomGauge stand

- - 4 No.1 looper ⑤ Cleaning tank
- 10 Dryer
- ① Oiler

- (6) Sheet sampling equipment
- No.1 and 2 tension reels
- Comfess immension toli-

Table 1 Specifications of TFL and shearing line FACOM M-200 On line numbers control <u> ተ</u>ሮ፣\_\_



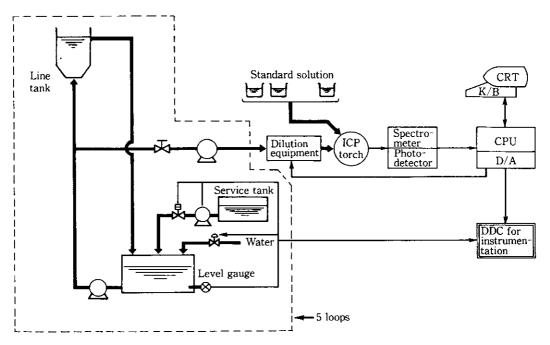


Fig. 5 Automatic concentration control system

DDC . The macagnful devaluement of this motor has

3.1.4 Automatic specimen sampling



permitted a stable manufacture of high quality products.

## 3.1.3 Overall quality control system

Since chromium coated steel is frequently used for

Formerly, specimens for testing the product quality have been taken by cutting out a piece from the outer layer of a wound coil by uncoiling it manually, which has posed some safety problems. In the TFL, a snip

matized. With the entry and exit section operations, mentioned above, mechanized for automation, and moreover, with automatized setting of electroplating conditions using process computer, a full automated

instruments, because the loop tended to cause strip vibration.

In the present shearing line, the NC shear is adopted and the strip is fed into the shear through a pinch roll.

skid at entry section comes out at exit section as finished ing tension between the bridle roll and the pay-off reel, product in full-automatic operation. The details of autothe loop from the entry side of the shear is eliminated<sup>4)</sup>. mytion of entry and avit section appropriate are shown

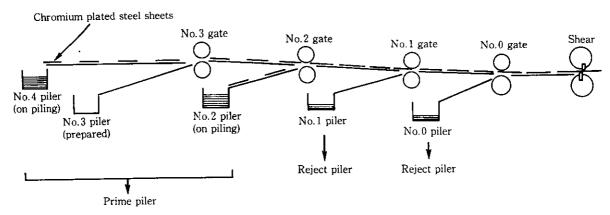


Fig. 7 Piling system of chromium plated steel sheets

