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No.

High-Efficiency Process Techniques in No.2 EGL at Mizushima Works

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Synopsis :

No.2 electrogalvanizing line (EGL) at Mizushima Works has been producing zinc-nickel electrogalvanized steel sheets and pure zinc electrogalvanized steel sheets mainly used for automobiles, household appliances, and structural frames since June 1991. No.2 EGL was installed for the purpose of producing especially exposed panels for automobiles. In order to achieve the purpose for high quality and high productivity, many new high-efficiency process techniques pertaining to, for example, a new horizontal plating cell, zinc-oxide dissolving equipment, Ir-O₂-coated anode, new rubber sleeve, and coating weight control system, were adopted into No.2 EGL process, providing good surface quality and constant coating weight. Owing to these high level process techniques, No.2 EGL has been working efficiently and producing high quality galvanized steel sheet on the high levels of yield and productivity.

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高効率生産技術*

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at Mizushima Works

要旨

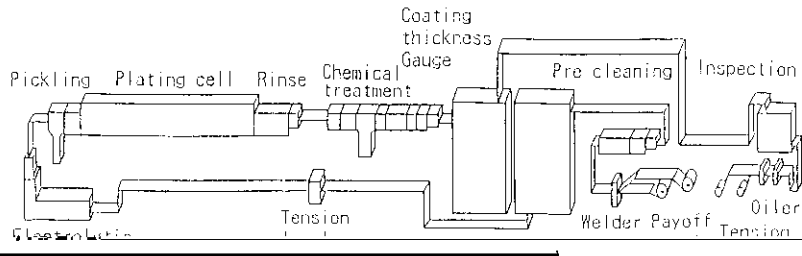
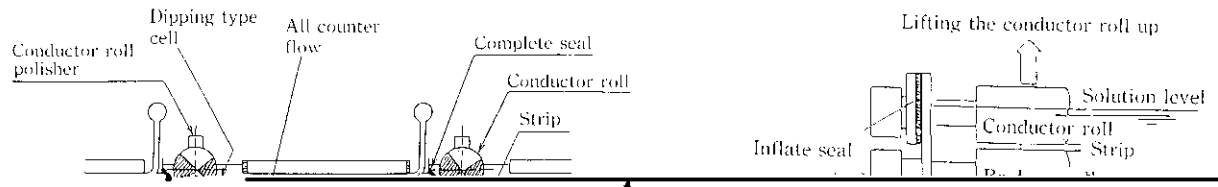


Fig. 1 Layout of Mizushima Works No.2 EGL

Capacity	(t/month)	25 000
Max. line speed	(mpm)	160

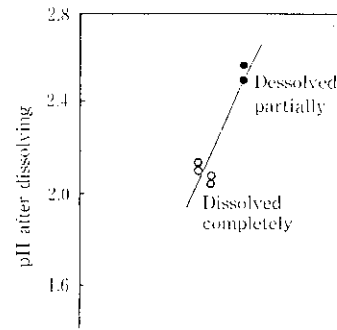
した。
 (2) ZnNiと純Znの2品種がめっきでき、しかもセル洗浄と液



4 亜鉛イオン補給

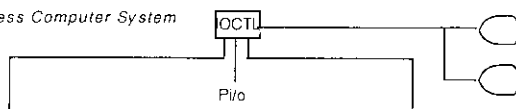
4.1 亜鉛イオン源

不溶性陽極の電気めっき装置では、めっきイオンを外部より補給する必要がある。亜鉛イオン源としては、炭酸亜鉛、酸化亜鉛、金属亜鉛等がある。2 EGL では、純 Zn めっきには、当初より安価な金属 Zn を使用してきたが、ZnNi めっき液の Zn イオン源については、検討を重ねた結果、当初の炭酸亜鉛から安価な酸化亜鉛に



PROGRAM

Process Computer System



Instrumentation DCS ; TDCS3000

