KAWASAKI STEEL GIHO
Vol.16 (1984) No.3

# Outline of the Advanced Total Information System on Cold Rolling at Mizushima Works

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Synopsis :
We refreshed total information system on cold rolling at Mizushima Works in Jan. 1984. This system is aimed at; (1) Development of a system to control planning of production. (2) Automatical gathering of data by process computer and sensors at all processes in cold rolling work, and construction of data base to manage and analyze quality and operation. (3) Realizing of an optimum lot of products. (4) Adoption of the information system in the Japanese language. (5) Realization of large-scale computer networks by a new system technique, and so on. This system runs smoothly, and has brought much benefit in shortening the payment term, improvement in quality and productivity, cost saving, and so on, by upgrading the product control level, concreting of quality assurance system, smoothing of material handling, realizing of optimum lot of products, efficient work, and so on, in the manufacture of products with small lots and great varieties and higher quality products.

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# 水島製鉄所新冷延総合生産管理システムの概要[*1]

川崎製鉄技報
16 (1984) 3, 165–172

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[illegible]

# [illegible] on Cold Rolling at Mizushima Works

[illegible]

向上，操業の安定化を図るとともに，業務の効率化と相まって，スタッフ業務を新技術・新製品開発等に向ける。

（3） 物流の円滑化と製造ロットの最適化

## 4 ハードウェア構成とコンピュータ機能分担

### 4.1 ハードウェア構成

Table 1 System configuration of hardware and software

| System | Item | Quantity | Note |
|---|---|---|---|
| Center computer system | Hardware | | |
| | FACOM M-380 | 2 | Central common machine |

| System | Item | Quantity | Note |
|---|---|---|---|
| Tandem mill system | Hardware | | |
| | HIDIC V90/50 | 1 | 5 MB |
| | CRT & Keyboard | 5 | |
| | Typewriter | 2 | |
| | Optical data highway system | 3.0 km | |
| | FEP HIDIC 08L | 8 | 5 : TA<br>2 : Pickling<br>1 : Cleaning |
| | Software | | |
| | TA | 50 k steps | |
| | Data logger | 25 k steps | |
| Continuous annealing system | Hardware | | |
| | HIDIC V90/50 | 2 | 5 MB SPARE 1 |
| | CRT & Keyboard | 5 | |
| | Typewriter | 2 | |
| | [illegible] | | |

システムを開発した