



(Makoto

Aratani)

:

No.1

No.4

6 7

Synopsis :

At Kawasaki Steel Chiba Works, as part of a modernization program aimed at creating an "urban steel works", No.4 continuous caster was constructed as a replacement for Chiba's super annuated No.1 continuous caster. The new caster is used exclusively for specialty steels, centering on stainless, and has functioned smoothly since the start of its operation in July 1994, realizing an improvement in the quality of stainless and high-carbon steel slabs by the introduction of a vertical bending type machine, a larger tundish and other features, and promoting enhancement of productivity by the adoption of automatic equipment.

表面欠陥フリーステンレス鋼の高速連続鋳造技術 ——千葉第4連鋳機の建設と操業——*

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High Speed Continuous Casting Technology for Surface Defect Free Stainless Steel Strand

Free Stainless Steel Strand ——Construction and Operation of the Chiba No.4 Continuous Caster——



要旨

川崎製鉄千葉製鉄所では、都市型製鉄所を目指すりフレッシュ計

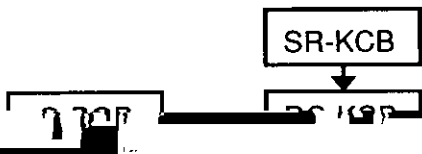


Table 1 Specification of 4 CCM and 1 CCM

| | 4 CCM | 1 CCM |
|-------|----------|------------|
| Model | Vertical | Horizontal |

Table 2 Automatic system of No. 4 CCM

Automatic powder feeder

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| No. | Item | Unit | Value |
|-----|------|------|-------|
| 1 | ... | ... | ... |
| 2 | ... | ... | ... |
| 3 | ... | ... | ... |
| 4 | ... | ... | ... |
| 5 | ... | ... | ... |
| 6 | ... | ... | ... |
| 7 | ... | ... | ... |
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| 32 | ... | ... | ... |
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| 34 | ... | ... | ... |
| 35 | ... | ... | ... |
| 36 | ... | ... | ... |
| 37 | ... | ... | ... |
| 38 | ... | ... | ... |
| 39 | ... | ... | ... |
| 40 | ... | ... | ... |
| 41 | ... | ... | ... |
| 42 | ... | ... | ... |
| 43 | ... | ... | ... |
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| 82 | ... | ... | ... |
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| 84 | ... | ... | ... |
| 85 | ... | ... | ... |
| 86 | ... | ... | ... |
| 87 | ... | ... | ... |
| 88 | ... | ... | ... |
| 89 | ... | ... | ... |
| 90 | ... | ... | ... |
| 91 | ... | ... | ... |
| 92 | ... | ... | ... |
| 93 | ... | ... | ... |
| 94 | ... | ... | ... |
| 95 | ... | ... | ... |
| 96 | ... | ... | ... |
| 97 | ... | ... | ... |
| 98 | ... | ... | ... |
| 99 | ... | ... | ... |
| 100 | ... | ... | ... |

