

Research and Development Creating the Future of Steel*



Synopsis:

Strong attitude for Research and Development, a system for Research and Development, and the history of research laboratories in Kawasaki Steel are described

1950

1960

1970

1980

1990

2000

Change in technical innovation

· Chiba Works constructed

· Mass production system
· Mizushima Works

Oil crisis (1973)

· High quality
· High purity
· Continuation and

Bubble economy

· Continuation and automation of production
· Documentation and operation

· Global environmental business
· Development of

Corporate Planning Dept. : Management of policy and planning

Product Business Unit

Product Business Planning Dept. : Product strategy/Profit planning/Technical marketing

Sales Dept. (Sale)

Steel Works (Production)

· Pb free steel sheet for fuel tanks

· Ultra high r -value cold rolled steel sheet

Human Society

- Waste containers
- Shredder dust
- Waste plastics
- Dust
- Sludge
- Solid fuel produced from urban garbage

- Recycling technology
- Closed system



Non-ferrous material supply

- Civil engineering material
- Slag cement
- Sulfur
- Zinc material

production technology for high purity solar-grade silicon for use in solar cells based on metallurgical treatment processes.²³⁾ In the field of measurement and control technologies, the company has developed a flaw detec-

Steel intends to maintain a stance that attaches great importance to research and development in the future, as it has in the past.

orescence method,²⁴⁾ a technology for evaluating the properties of electrical steel sheets for use in motor cores,²⁵⁾ and other technologies, contributing to process control not only in iron and steel processes, but also in other fields of industry. In the field of analysis, the company has developed a high accuracy analysis method for the oxygen content of steel by optical emission spectroscopy, making it possible to obtain the distribution

- 1) "Kawasaki-Seitetsu 25-nenshi", (1976)
- 2) M. Kondou: "Kenkyuu-Kaihatsu Management Kenkyu-ushitsu-Houmon-Series VISIT78 Kawasaki-Seitetsu Gijutsu-Kenkyuusho", 8(1998)10, 96
- 3) A. Tosaka, T. Hira, and O. Furukimi: *Kawasaki Steel Giho*, 32(2000)1, 7
- 4) A. Miyazaki, J. Hirasawa, and S. Satoh: *Kawasaki Steel Giho*, 32(2000)1, 32
- 5) Kawasaki Steel Technical Res. Labs. Ed.: "*Kenzai-You Stain-*