

KAWASAKI STEEL TECHNICAL REPORT

No.21 (November 1989)

Civil and Architectural Engineering

CAD System for Fabrication of Steel Structures of Buildings

Minoru Suzuki, Masatoshi Morita, Shota Miyake, Yasuhiko Takahashi, Yoshiyuki Okita,
Norimichi Hiraki

Synopsis :

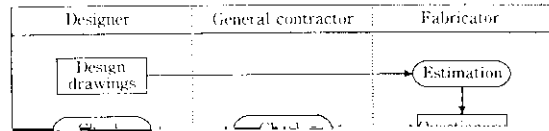
The rationalization of steel structure fabrication by applying the CAD system has been studied. Using input data from design drawings, the system generates shop drawings, cutting templates, NC tapes and a variety of fabrication order sheets. Efficient and flexible drafting has been performed combining automated and interactive processing. This system has realized large laborsaving effects and standardization and optimization of job schedules through applications to many projects.

(c)JFE Steel Corporation, 2003

The body can be viewed from the next page.

CAD System for Fabrication of Steel Structures of Buildings*

2 Utilization of CAD Systems in Steel Structure Fabrication Industry

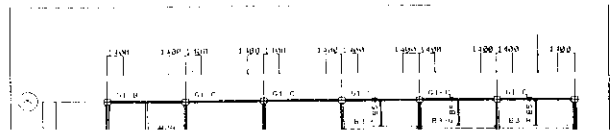
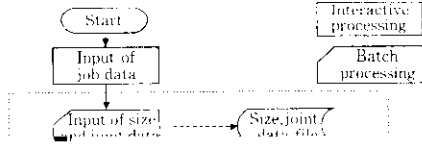


speed plotting is conducted by the collective processing ment. It was found, however, that the structure of the

of parameter input up to the stage of rough drawings database itself becomes complex when troublesome

concentrate input data, parts and joint data that can be listed are input collectively. To raise the degree of standardization of parts to which the system can be applied,

in development load but also adverse effects on operation and response speed. It was decided, therefore, to adopt a database for each subsystem. Because the data



by selecting commands from the display menu. During screen menus can be freely designed, and access to and

database.

commands and macroprograms prepared by the user,

5 Problems with Steel Structure CAD Systems

structure CAD systems are still being improved and, therefore, the effect of their introduction varies greatly depending on the abilities of individual operators. Because of the structural depression after the