

Establishment of All-weather Berth Network

(Tanemitsu Yasuda)

(Seiji Ueda)

(Koji Tate)

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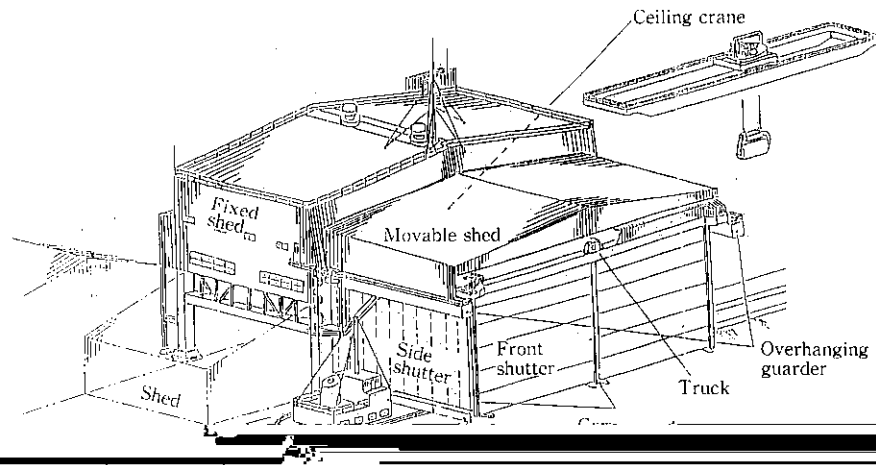
Synopsis :

Kawasaki Steel Corporation established an integrated network comprising a total of six all-weather berths for loading and unloading at its Mizushima Works, Chiba Works, Chita Works and Osaka Service Center to improve transportation efficiency by the domestic vessels on which the company depends for approximately 70% of its steel product transportation. The Osaka Service Center, because it is located on a public wharf, has adopted the retractable vessel housing method for the first time in Japan. With a fixed shed equipped with both a ceiling crane and a movable shed which moves on an overhanging guard, the facility can be used in the shut down condition, and is possible to operate in both good and inclement weather. In addition, a multi-purpose semi-automatic crane was adopted to improve loading and unloading efficiency. Kawasaki Steel consequently realized a basic transportation improvement by achieving labor saving, improvement in



Table 1 Specifications of Kawasaki Steel all-weather berths

No.	Item	Specification
1	Material	SS400
2	Thickness	10mm
3	Surface Treatment	Galvanized
4	Coating	None
5	Paint	None
6	Corrosion Resistance	None
7	Strength	None
8	Stiffness	None
9	Fire Resistance	None
10	Seismic Resistance	None
11	Wind Resistance	None
12	Wave Resistance	None
13	Ice Resistance	None
14	Temperature Resistance	None
15	UV Resistance	None
16	Acid Resistance	None
17	Alkali Resistance	None
18	Oil Resistance	None
19	Other	None



保管倉庫：13棟（倉庫面積45,000㎡）

Table 2 Main Specification of equipment of Osaka Service Center

3.2 設備概要

ポストの昇降によってパネルが上昇・下降する構造となっている

Table 4 Change of vessel level

(m)

Table 5 Range of automatic operation for loading and

### 4.2.1 振れ止め速度制御

#### (1) 横走行動作の振れ止め速度制御

くすような速度制御パターンをシミュレーションで求め、テー

全天候バスの建設に必要 知る 1-155 のり 1000 円 1000 円

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