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KAWASAKI STEEL GIHO

Vol.28 (1996) No.3

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Large Scale Maritime Structures Using Steel Pipe Piles

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Synopsis :

Since the construction of Philippine Sinter Plant (1974 -1977) including the largest jetty structure in the Philippines to facilitate 250 000 D.W.T ore carrier >*Kawasaki Steel has developed various port and harbor projects, utilizing high engineering careers obtained through construction of various structures of integrated steel works in Japan. In this report outline and attractive engineering performances of Kawasaki Steel in major port projects in Southeast Asia, using steel pipe piles, steel pipe sheet piles and other steel product, are introduced.

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鋼管杭を利用した大型船舶接岸構造物

川崎製鉄技報

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—25万D.W.T.シーバースからKPP杭桟橋での適用例—*

Large Scale Maritime Structures Using Steel Pipe Piles

要旨

当社は1924～77年17万台以上、シンドギナオ島で25万D.W.T.

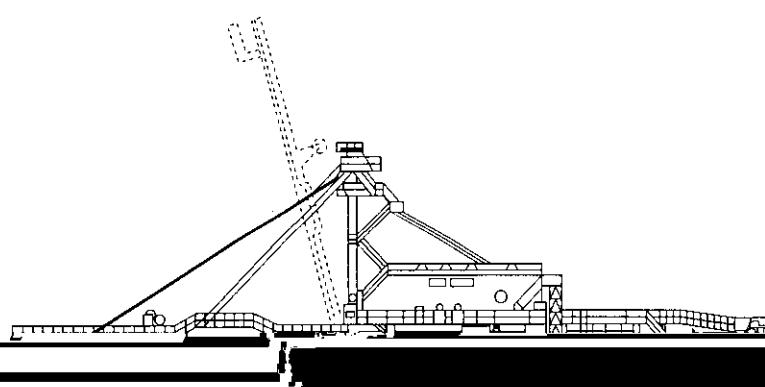


Table I Quantity of major material

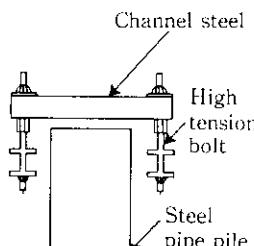
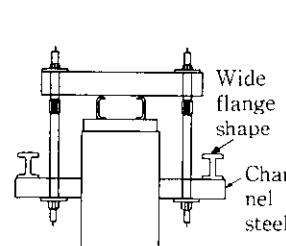
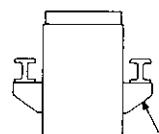
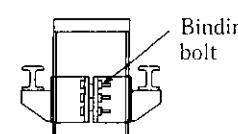
Item	Description	Quantity	Remarks
Main berth L = 351.25 m	Steel pipe pile(Vertical)	(pcs.) 195	O.D. 1219 mm, t = 16 mm, l = 55-60 m
	Steel pipe pile(Rake)	(pcs.) 76	O.D. 1219 mm, t = 16 mm, l = 60 m
	Steel beam	(t) 1 350	
	Reinforcement bar	(t) 2 150	
	Concrete	(m ³) 14 600	
Dolphin	Steel pipe pile(Vertical)	(pcs.) 5	O.D. 1219 mm, t = 16 mm, l = 60 m
	Concrete	(m ³) 4	O.D. 1219 mm, t = 16 mm, l = 60 m



Table 2 Operation records of floating pile driving equipment

Description		Interlocked steel pipe pile	Steel pipe pile	Steel sheet pile
Dimension	(mm)	O.D. 1200 × 15 t	O.D. 500 × 12 t	KSP VL
	(mm)	O.D. 800 × 13 t	O.D. 600 × 12 t	
			O.D. 800 × 12 t	

Table 4 Comparison of supporting system

Hanger type(1)	Hanger type(2)	Bracket type	Prefabricated bracket
 <p>Channel steel High tension bolt Steel pipe pile</p> <p>* Easy installation</p>	 <p>Wide flange shape Channel steel</p> <p>* Takes time to install</p>	 <p>Bracket</p>	 <p>Binding bolt</p>