

KITO

KITO MIGHTY CB cromox with SUS Load Chain

KITO Business Division - Americas

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1. Product Overview

Chain Manufacturer

- **Ketten Walder GmbH** of Germany

- Manufactures SUS chains for various industry categories including use for slings, hoists, sinking pumps, anchors, and playground equipment. SUS Chain Brand Name: cromox

- **Stainless steel chains** account for **40-45%** of their total chain production amount.

- Technological Strength = Manufactures chains from **Grade G60 SUS at the same level or higher than Pewag products.**
(Only for anchor chains)

Features of cromox Chains

- ◆ Products conform with DIN Standards
Grade 50
- ◆ Material Quality: AISI 316L

Stainless steel chains **contain the 5 major elements of iron plus chromium and nickel**. The chain surface is formed from a **thin film of chromium known as the “oxide film”** which gives the chain **corrosion resistance**. (AISI 304 = Stainless Steel standard material)

AISI 316L has the **characteristics of molybdenum addition and ultra low carbon** as stainless steel chains that have been given **improved corrosion-proofing by increasing the corrosion, acid, sea water, and heat resistance**.

Main applications: Industrial facilities, food industry, nuclear reactor equipment, aqueduct bridges, water pipes, pressure containers, textile industries, chemical industries, and dyeing industries

AISI 304

AISI 304 Constituents and Composition (Units: %)											
Material Symbol	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Other
AISI 304	0.08 or less	1.00 or less	2.00 or less	0.045 or less	0.030 or less	8.00-10.50	18.00-20.00	—	—	—	—

5 Main Elements of Iron

Due to the molybdenum addition, the corrosion-proofing has been improved by increasing the corrosion, acid, sea water, and heat resistance.

AISI 306L

Materials included in AISI

AISI 306L Constituents and Composition (Units: %)											
Material Symbol	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Other
AISI 306L	0.08 or less	1.00 or less	2.00 or less	0.045 or less	0.030 or less	10.00-14.00	16.00-18.00	2.00-3.00	—	—	—

Basic Specifications



Type

CBS = Single Unit

CBSSP = Plain Trolley Connected

CBSSG = Geared Trolley Connected



Rated Load

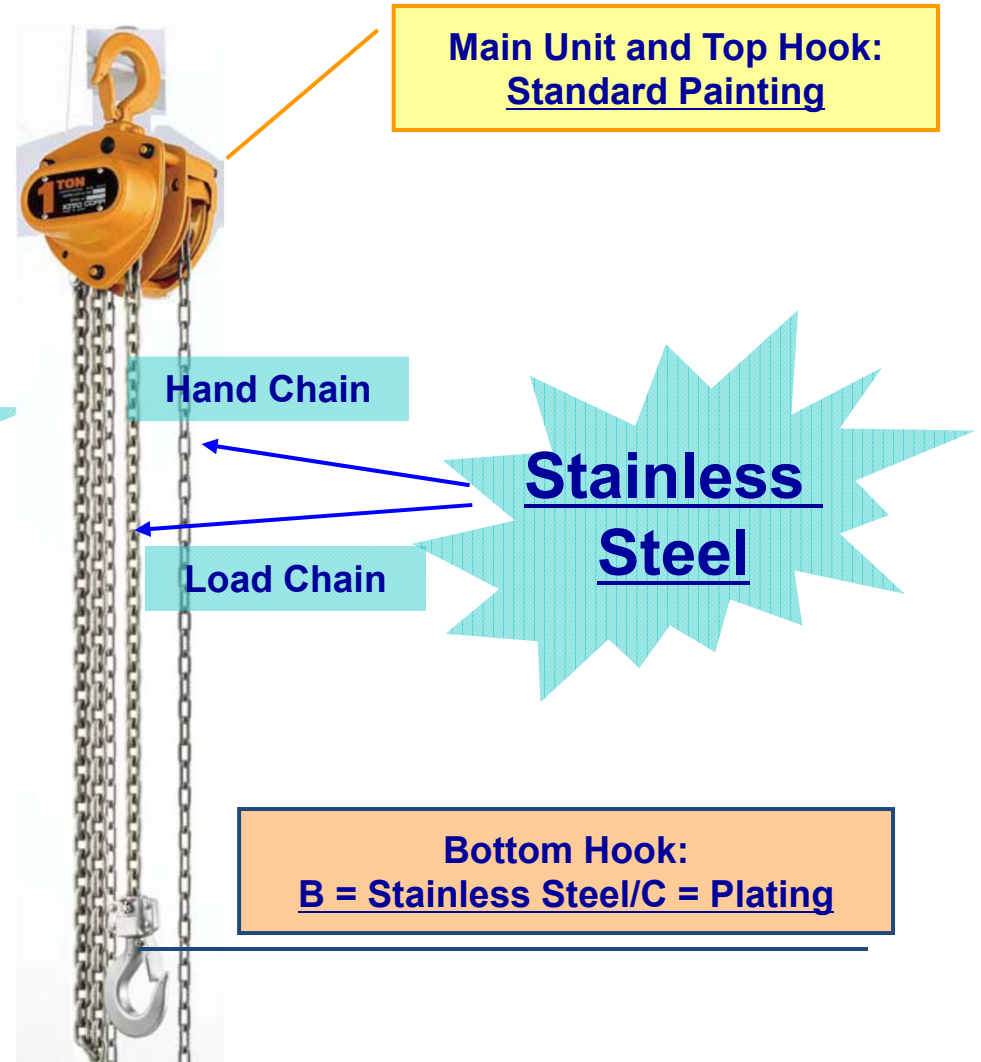
0.5t (1.0 main unit)

1.0t (2.0t main unit)

Pattern A [Full Specification]



Patterns B/C [Bottom Hook Selection]



3. Target Markets

Demand Business Categories





Actual KJ Orders Received

Approximately 3 months from start of receiving orders (Between mid-October and end of January)

Model	Capacity	No. of units	Industry Category
CBS	010	20	For work inside high temperature furnaces
CBS	010	1	Pharmaceuticals
CBSSG	010	1	Pharmaceuticals
CBS	005	2	Foods
CBS	005	8	Highway-related (Inside highway deicing agent managing storehouse)
CBS	005	4	Nuclear power plant (Lift 30-50m, long lift)
CBS	005	2	Foods
CBS	005	2	Foods
CBS	005	1	Chemical industry
Total			41 Units

4. Items requiring Caution

Wear Resistance

Because the wear resistance is low, the management standards will be different from those for iron or CL chains, and wear administration should be carried out using the following numbers of cycles as an estimate.

Rated Load	500kg	1t
Nominal chain size	6.3mm	8.0mm
Estimated number of usage cycles	1000 cycles	500 cycles

* 1 cycle: The total of the two actions of lifting the chain one time and lowering it one time
(The two-time passage through the load sheave = 1 cycle)

Load Chain Estimated Replacement Simulation

**Assumption: Situation where equipment is used
5 times per month (once a week)**

Rated Load	Number of Times Used per Year	Estimated Number of Years for Replacement
500kg	60 times	16 years
1t	60 times	8 years

These are the estimated number of years for replacement in the situation where only the chain usage cycle is considered.

When Inquiries are Made or Orders are Received

Confirm the customer usage applications, usage environment, and usage frequency.



Give a sufficient explanation of the product's characteristics before delivering the product.



Based on the dedicated inspection check sheets, strictly observe the regular inspections and load chain replacement.