

Company Information



since 1952.2

**Open our Door,
Please!**



Chiyo Daiichi Kogyo CO.,LTD

千代田第一工業株式会社

Company Introduction

| | |
|---------------------|---|
| Name | Chiyoda Daiichi Kogyo CO.,LTD. |
| President | Nobuo Suzuki |
| Address | Tokyo Japan |
| Founding | Since 1952 |
| Capital | ¥ 12,000,000 |
| Annual Business | ¥ 274,255,000 (fiscal year 2021) |
| Business Line | DiChrono、 Blastrone |
| Number of Employees | About 25 Employees |
| Address | 3-11-9 Iwato-kita Komae-shi TOKYO JAPAN 201-0004 |
| URL | https://www.daikuron.com |

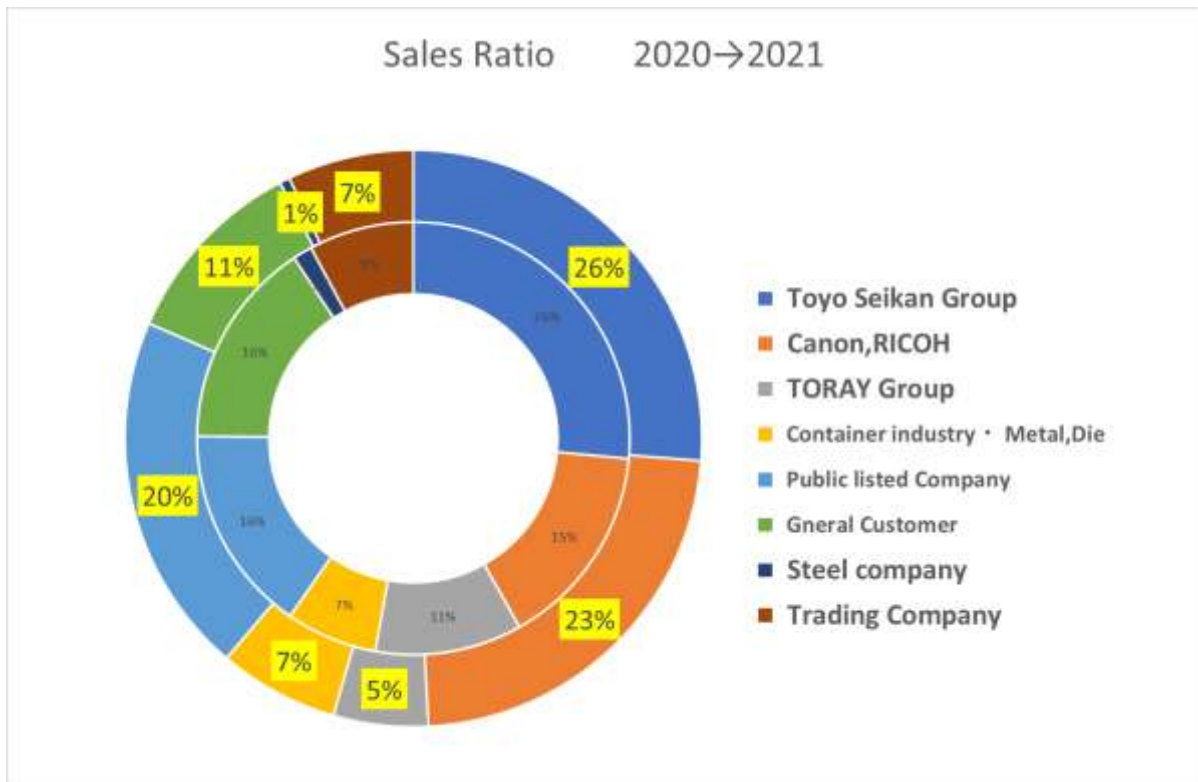
Self Introduction

Date of Birth JUN 8th 1971
(Wife,Son,daughter)

Hobby:
2nd Degree Black Belt of KARATE
3rd Degree Black Belt of JUDO
Wrestling, Skiing, Golf, Fishing and Beer
etc



Business Performance



Toyo Seikan Group 26%
Canon, Ricoh 23%
Toray Group 5%

Public Customer 20%
General Customer 11%

Why do many people use Surface treatment ?

Because a desire of the human is unlimited.

Want be stronger !
 Want be Hardening !
 Want be beautiful !
 Want be Slipperiness !
 etc ...

Used as a means
 for satisfying “multiple requests”

Way of Thinking on the Surface Treatment

【Case 1】

The Problems ➡ Surface Hardening ➡ Surface Treatment
 ex : In order to effectively utilize the base material, surface hardening.
 (Heat Treatment)

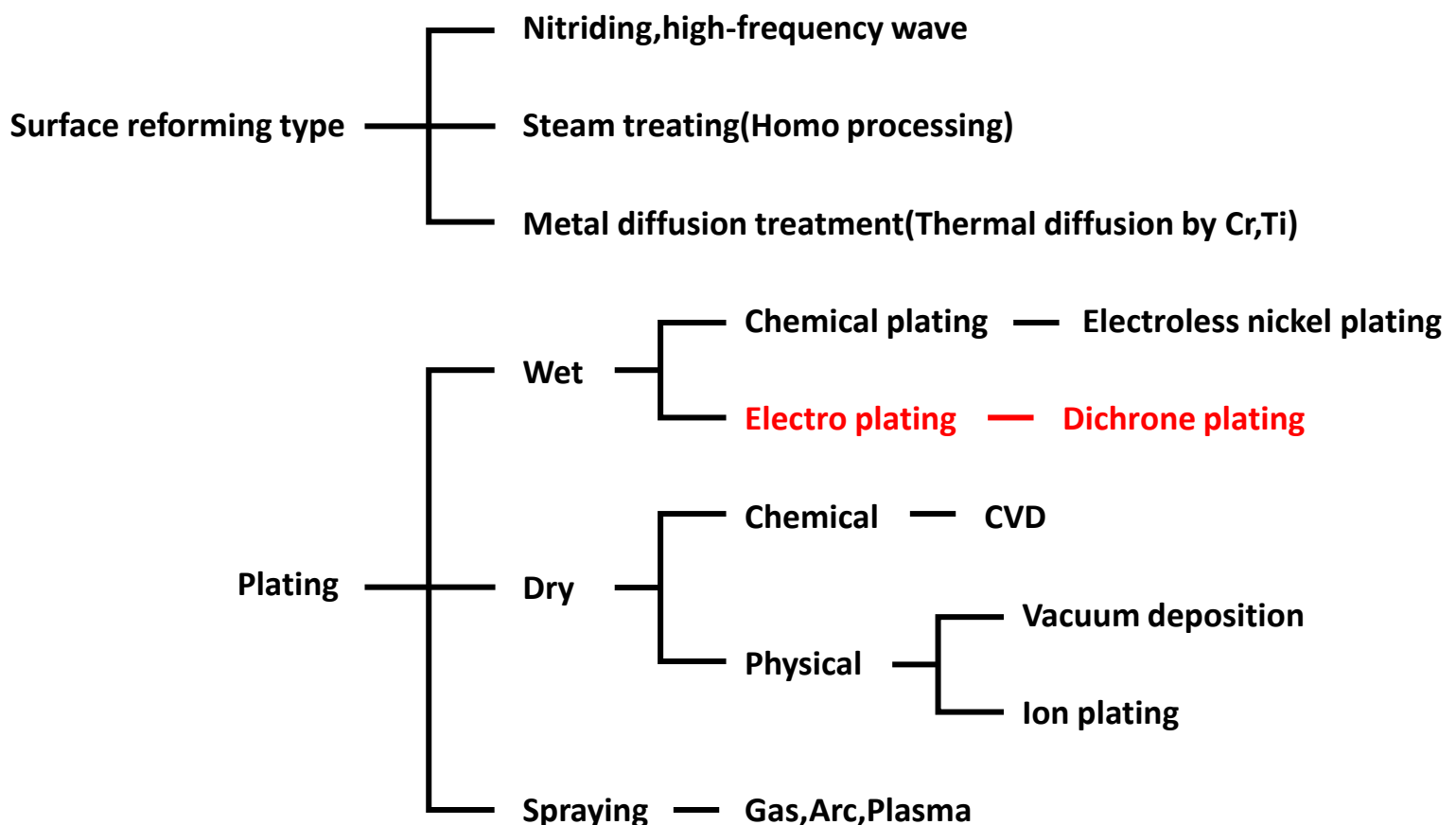
【Case 2】

The Problems ➡ Changing the Base Material ➡ Surface Treatment
 ex : Since corrosion of steel occurs, The material was changed to stainless steel.
 However, could not be used to decrease the hardness.

【Case 3】

The Problems ➡ Need to give better Performance and Characteristics
➡ Surface Treatment
 ex : In order to lower the coefficient of friction, surface hardening, Teflon-Coated.

Classification table of surface treatment



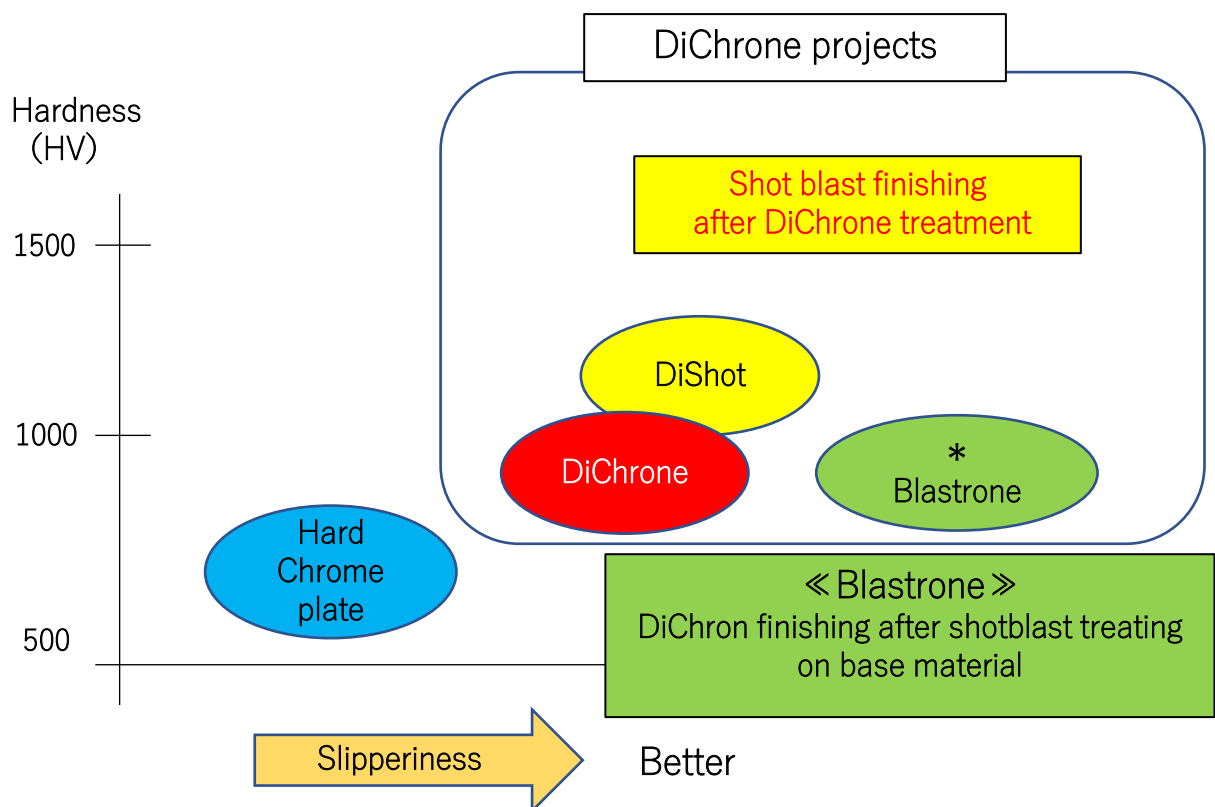
Positioning of DiChron product

【flexibility to several metal】

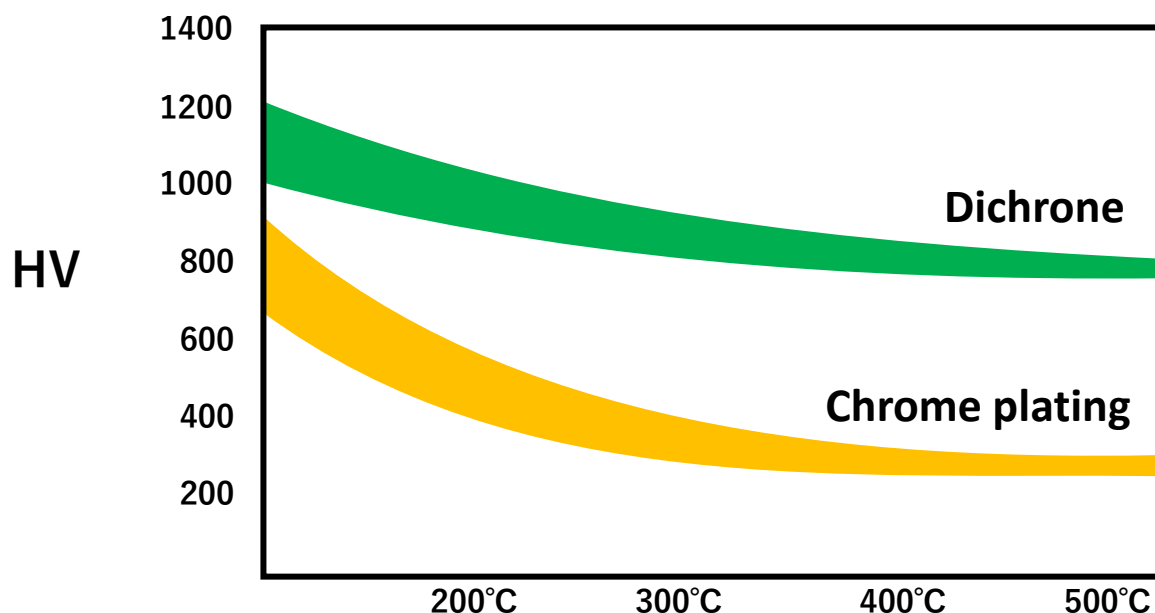
SK, SKD, stainless-steel,
aluminum, copper are acceptable.
Original standard made by metal
supplier are also acceptable.

【other advantages】

- Better adhesiveness
- Better erosion



Hardness in high temperature range



What is DiChrono ?

DiChrono is a kind of hard Chrome platings, adding the special original catalyst into compositions. DiChrono is the hard Chrome carbide plating by using Chromium carbide alloy which is high intermolecular coupling degree.

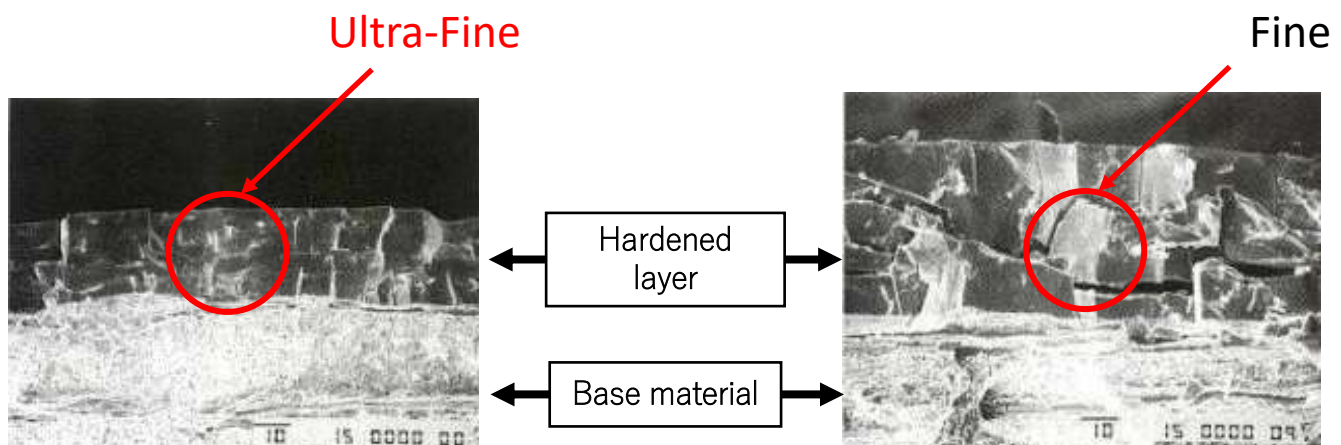
1. Comparison table between DiChrono and hard chrome plating.

| Item | Dichrone | Hard chrome |
|--|--------------------|------------------------|
| Appearance | Cannot distinguish | |
| Hardness(HV) | 1000 | 800 |
| Amount of wear | 0.5 | 1 |
| Gap on interface | No | Yes |
| Static corrosion (3% Salt solution) | No corrosion | Corrosion around crack |
| Crack in Hardened layer | Ultra-fine | Fine |

2. Crack in the hardened layer

DiChrono (x 750)

Hard Chrome(x 750)



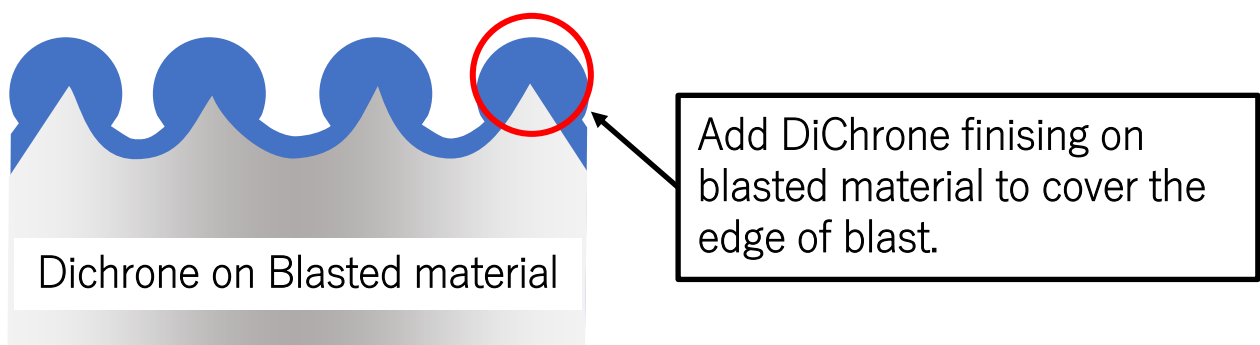
What is Blastrone ?

Blastrone is the surface treatment which coat the DiChrome treatment on shot blasted base material. It can add better slipperiness on DiChrome ability.

1. Comparison table between Blastrone and DiChrome.

| Item | Blastrone | DiChrome |
|---|------------|------------------|
| Surface condition | Stain | Mirror finishing |
| Coefficient of friction(μ) (Comparing to PP) | 0.3 | 0.5 |
| Hardness(HV) | 1000 | 1000 |
| Gap on interface | No | No |
| Crack in hardened layer | Ultra-fine | Ultra-fine |

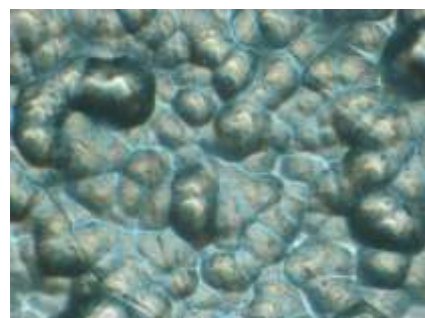
2. Cross-section image



3. Micrograph



Replica photo of surface



Microscope



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