



CHIYODA & TOKYO



CHIYODA-STEEL



千代田鋼鉄工業株式会社

<https://www.chiyoda-steel.co.jp/>

Headquarters 6-10-6 Ayase, Adachi-ku, Tokyo

Ayase Plant 6-10-6 Ayase, Adachi-ku, Tokyo

TEL : +81-3 (3605) 2121 (main)

FAX : +81-3 (3628) 6620 (main)

Ichikawa Plant 1920 Kouya, Ichikawa-shi, Chiba

TEL : +81-47 (327) 0121 (sales)

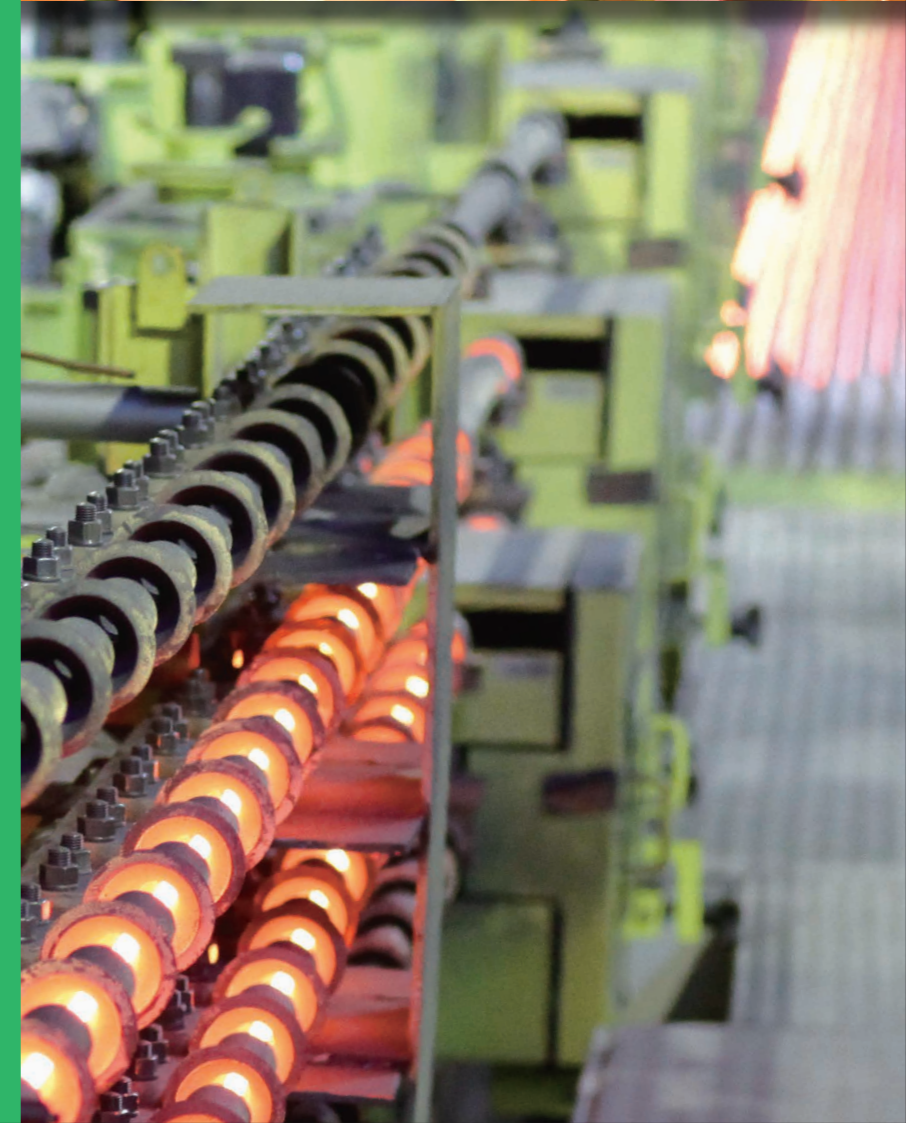
TEL : +81-47 (327) 1571 (manufacturing)

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Chiyoda-Steel co.,ltd



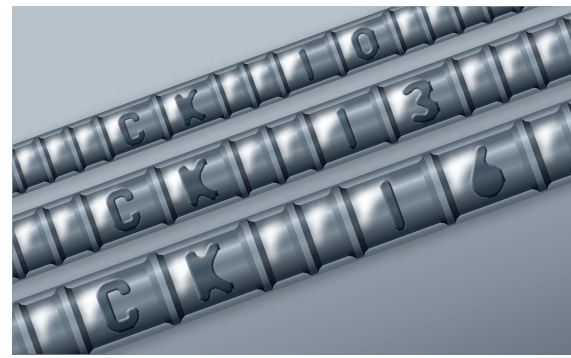
Established as a galvanized steel sheet manufacturer in June 1948, Chiyoda Zinc Industry Co., Ltd., expanded the business to electric furnace steel making in November 1956 and to light bars in January 1957 and changed the company name to present Chiyoda-Steel Co., Ltd., in April 1974.

We have two production sites for steel bars for concrete reinforcement and prepainted steel sheets each. The abundant experience and advanced techniques ensure comparable power to enter the global competition in both quality and costs.

In particular, the reinforcing bar business site meets the strict environmental criteria of the Tokyo metropolitan government and the sole plant in Tokyo provides products in a timely manner.

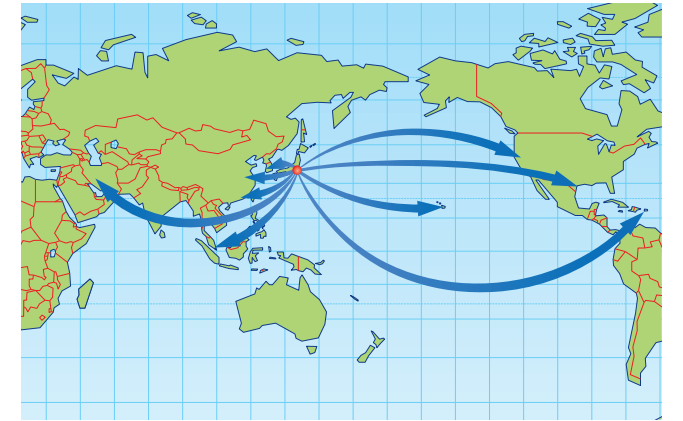
We continue to contribute to the society by playing a role in the steel industry in Japan and strengthening the foundation of the company.

We appreciate your support and patronage.



Chiyoda-Steel achieves worldwide sales of deformed steel bars.

The Kanto region in Japan is the largest supply base of scrap in southeastern Asia. The products manufactured in the region that effectively utilize the competitive resources are not only used in Japan but also in a wide range of areas.



Company Overview



Headquarters Building

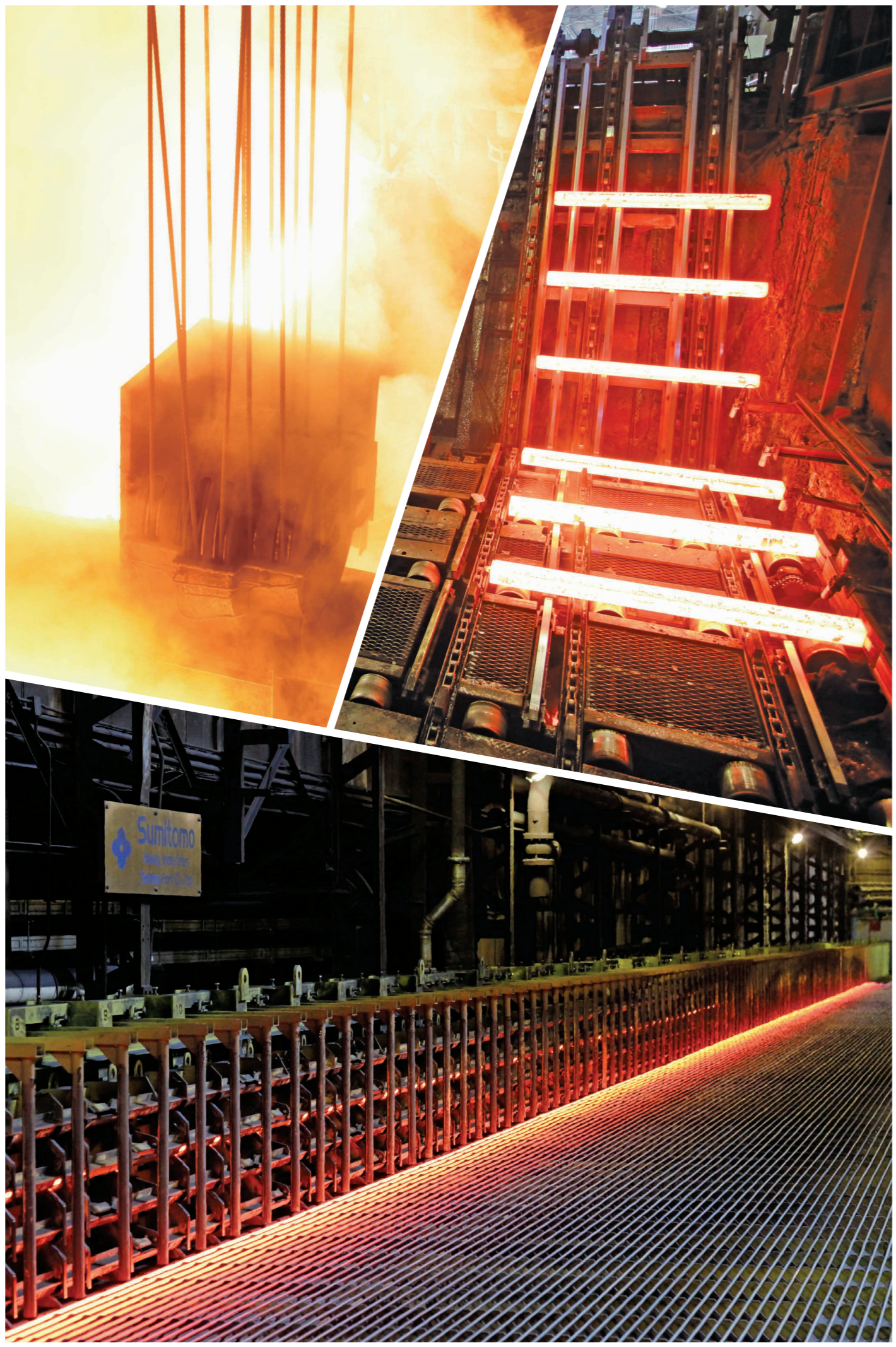
Corporate name Chiyoda-Steel Co., Ltd.
President Masataka Sakata
Number of employees 170

Ayase Plant
 Deformed steel bars for concrete reinforcement
 • JIS G3112 SD295A, SD345, SD390/D10, D13, D16/3.5~12.0m
 • ASTM A615 Grade40, Grade60/No.3, No.4, No.5/20, 30, 40ft
 • KS D3504 SD400/D10, D13, D16/8.0m
 • CSA G.30.18-09 Grade400W/10M/12.0m

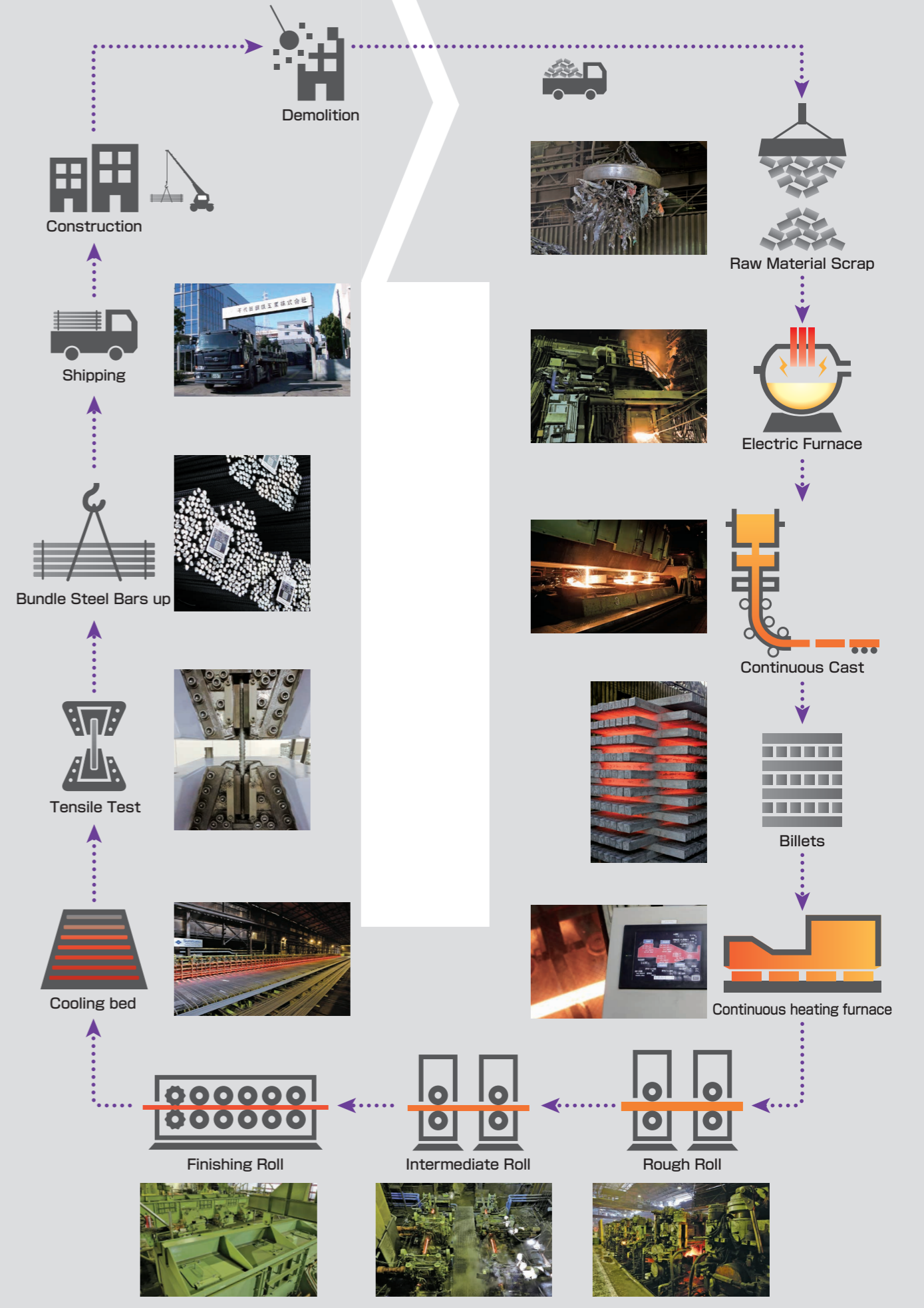
Ichikawa Plant
 <Business items>
 Colored galvanized steel sheets (JIS G 3312, 3318, 3322)
 Formed and machined items
 <Production capacity> 5,000 tons per month

History

June 1948	Established Chiyoda Kogyosho at 791 Horikiri-cho, Katsushika-ku. Started manufacturing and sales of galvanized steel sheets.
June 1949	Formed a joint-stock company with capital of 400,000 yen. Changed the name to Chiyoda Zinc Industry Co., Ltd. Placed the headquarters at 1-4 Nihonbashi Edobashi, Chuo-ku.
October 1949	Moved the plant to the new location of the present headquarters in association with expanding demand for galvanized steel sheets. Monthly production of 1,500 tons.
January 1960	Added a 20-ton electric furnace plant. Monthly production of normal steel ingots of 4,500 tons for increased sales of steel ingots to the market.
August 1966	Approved plant for JIS marking of hot rolled steel bars types 1 and 2 and hot rolled deformed steel bars types 1 to 3 of steel bars for concrete reinforcement (JIS G 3112).
January 1971	Added a 40-ton electric furnace. Monthly production of normal steel ingots of 10,000 tons to intend increased sales of steel bars.
April 1974	Changed the company name to Chiyoda-Steel Co., Ltd., in association with the expansion of operations.
April 1975	Approved plant for JIS marking of hot rolled deformed steel bars type 4 for concrete reinforcement (JIS G 3112).
January 1990	Installed a flicker compensation system (15,000 kVA).
January 1990	Modified the heating furnace to the side-pusher type. Replaced the finishing line.
April 1992	Received the Director-General Prize of the Bureau of Economy, Trade and Industry as an excellent plant for energy management from the director-general of the Kanto Bureau of Economy, Trade and Industry.
November 1992	Received the Director-General Prize of the Kanto Bureau of Economy, Trade and Industry as an excellent plant for industrial standardization.
October 1996	Received the 3Rs Promotion Council Chair's Prize as acknowledgement for contributions to recycling promotion.
September 2002	Installed a building dust collector (6,000 Nm3).
February 2004	Shifted the heavy oil combustion equipment in the rolling mill to gas.
January 2006	Shifted the heavy oil combustion equipment in the steel mill to gas.
January 2007	Newly built the headquarters office.
February 2007	Obtained ISO 9001 certification from JIC Quality Assurance Ltd.
January 2008	Updated the finishing equipment of rolled materials.
May 2008	Added a dust collector for both furnace emissions and building equipment (7,000 m3/min).
June 2008	Obtained certification for the new JIS Marking system from JIC Quality Assurance Ltd.
January 2009	Updated the floor cooling system.
March 2009	Obtained certification under the KS standards.
December 2009	Registration of ISO 14001 by JIC Quality Assurance Ltd.



The consistent control system from raw materials to production responds to your trust.



CK Brand, the pride of skillful Chiyoda. Deformed steel bars active in many fields.

Deformed bars - Product features

CK Brand to support social infrastructure

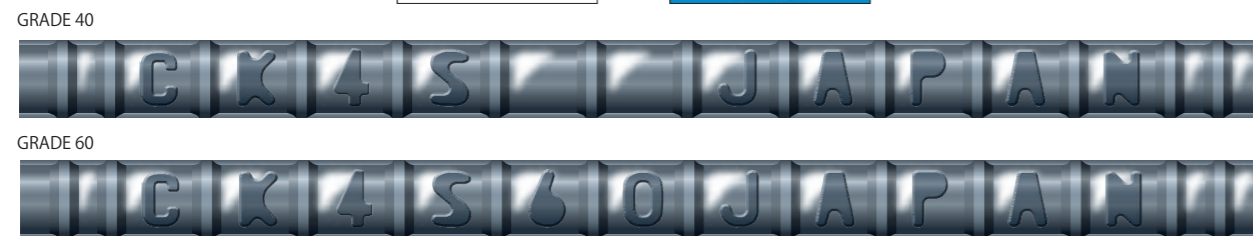
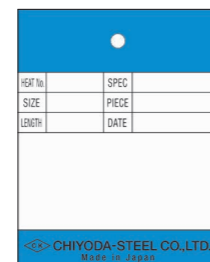
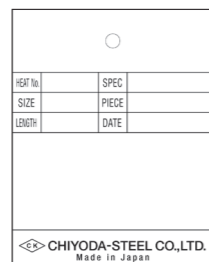
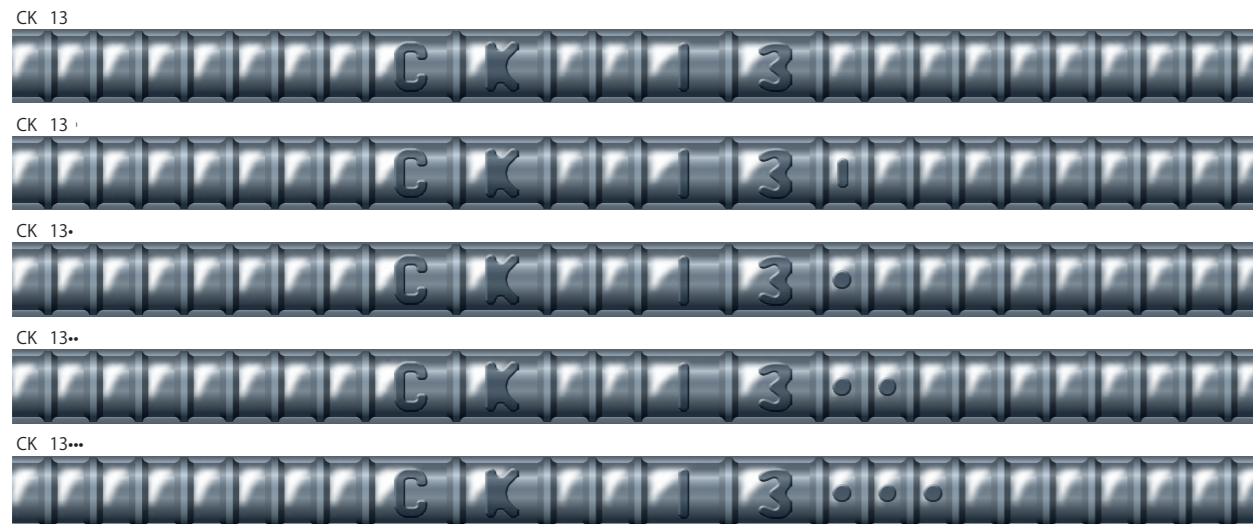
Chiyoda-Steel is proud of its CK Brand that has been a key part in the support of the essential social infrastructure for more fulfilled lives of people, including medium to high rises, residential buildings, and road improvement. Deformed steel bars play an important role as the fundamental material in civil engineering and construction projects in a wide range of fields.

Marking approval by Japanese Industrial Standards

Name	Category	Denotation of the type	Metal tag
Steel bars for concrete reinforcement (JIS G 3112)	Deformed steel bar	SD 295	White
		SD 345	Yellow
		SD 390	Green
		SD 490	Blue



Roll mark on a deformed steel bar



GRADE 40	C	Si	Mn	P	S	Yield Point	Tensile Strength
	—	—	—	0.060% Max.	—	40000psi Min.	60000psi Min.

GRADE 60	C	Si	Mn	P	S	Yield Point	Tensile Strength
	—	—	—	0.060% Max.	—	60000psi Min.	90000psi Min.

Tables of shape and mass

CK Brand to support social infrastructure

Chiyoda-Steel is proud of its CK Brand that has been a key part in the support of the essential social infrastructure for more fulfilled lives of people, including medium to high rises, residential buildings, and road improvement. Deformed steel bars play an important role as the fundamental material in civil engineering and construction projects in a wide range of fields.

Chemical composition

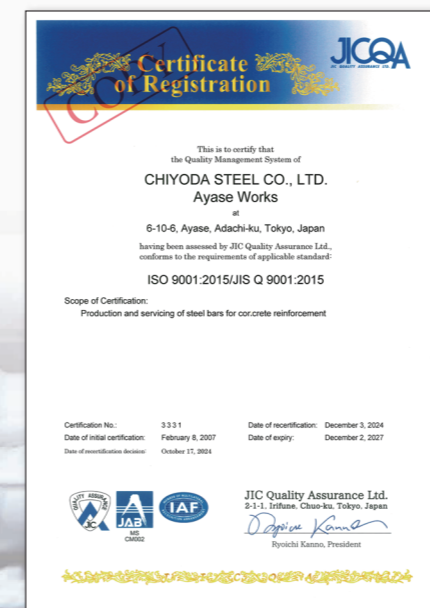
Name	Category	Denotation of the type	Chemical composition %					
			C	Si	Mn	P	S	ceq
Steel bars for concrete reinforcement (JIS G 3112)	Deformed steel bar	SD 295	0.27 and less	0.55 and less	1.50 and less	0.050 and less	0.050 and less	—
		SD 345	0.27 and less	0.55 and less	1.60 and less	0.040 and less	0.040 and less	0.60 and less
		SD 390	0.29 and less	0.55 and less	1.80 and less	0.040 and less	0.040 and less	0.65 and less
		SD 490	0.32 and less	0.55 and less	1.80 and less	0.040 and less	0.040 and less	0.70 and less

Dimension, mass, and rib tolerance for deformed steel bars

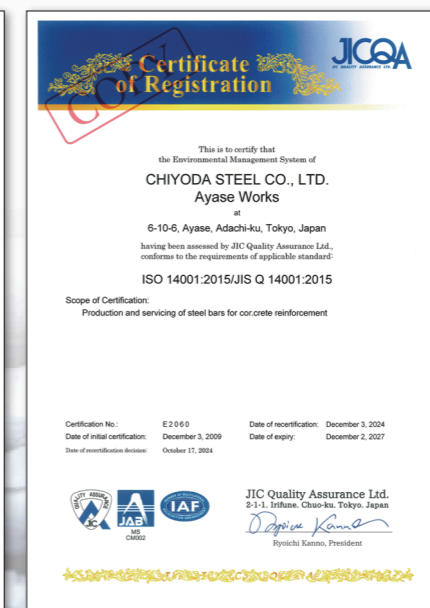
Designation	Nominal diameter (d) mm	Nominal perimeter (l) mm	Nominal cross-sectional area (S) mm ²	Unit mass kg/m	Maximum of averaged rib interval mm	Rib height		Maximum of sum of rib gaps mm
						Minimum mm	Maximum mm	
D10	9.53	29.9	71.33	0.560	6.7	0.4	0.8	7.5
D13	12.7	39.9	126.7	0.995	8.9	0.5	1.0	10.0
D16	15.9	50.0	198.6	1.56	11.1	0.7	1.4	12.5

Mechanical properties

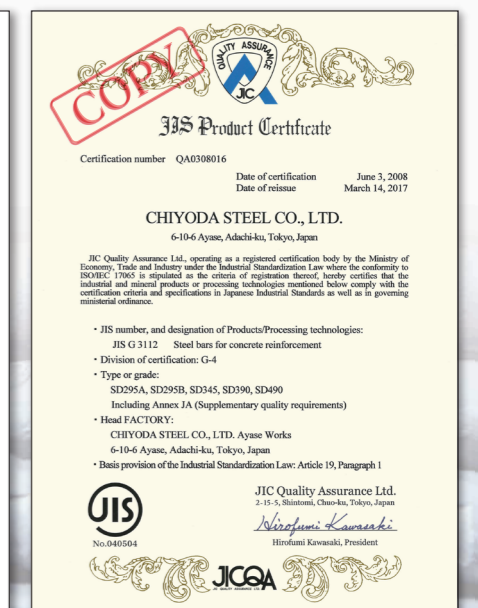
Name	Category	Denotation of the type	Tensile test				Bend test		
			Yield point or 0.2% proof stress N/mm ²	Tensile strength N/mm ²	yield ratio (%)	Specimen	Elongation %	Bend angle	Inside radius
Steel bars for concrete reinforcement (JIS G 3112)	Deformed steel bar	SD 295	295 and more	440 to 600	—	According to No. 2	16 and more	180°	1.5 times nominal diameter
		SD 345	345 to 440	490 and more	80 and less	According to No. 2	18 and more	180°	1.5 times nominal diameter
		SD 390	390 to 510	560 and more	80 and less	According to No. 2	16 and more	180°	2.5 times nominal diameter
		SD 490	490 to 625	620 and more	80 and less	According to No. 2	12 and more	90°	2.0 times nominal diameter



ISO 9001 Certificate of registration



ISO 14001 Certificate of registration



JIS Certificate