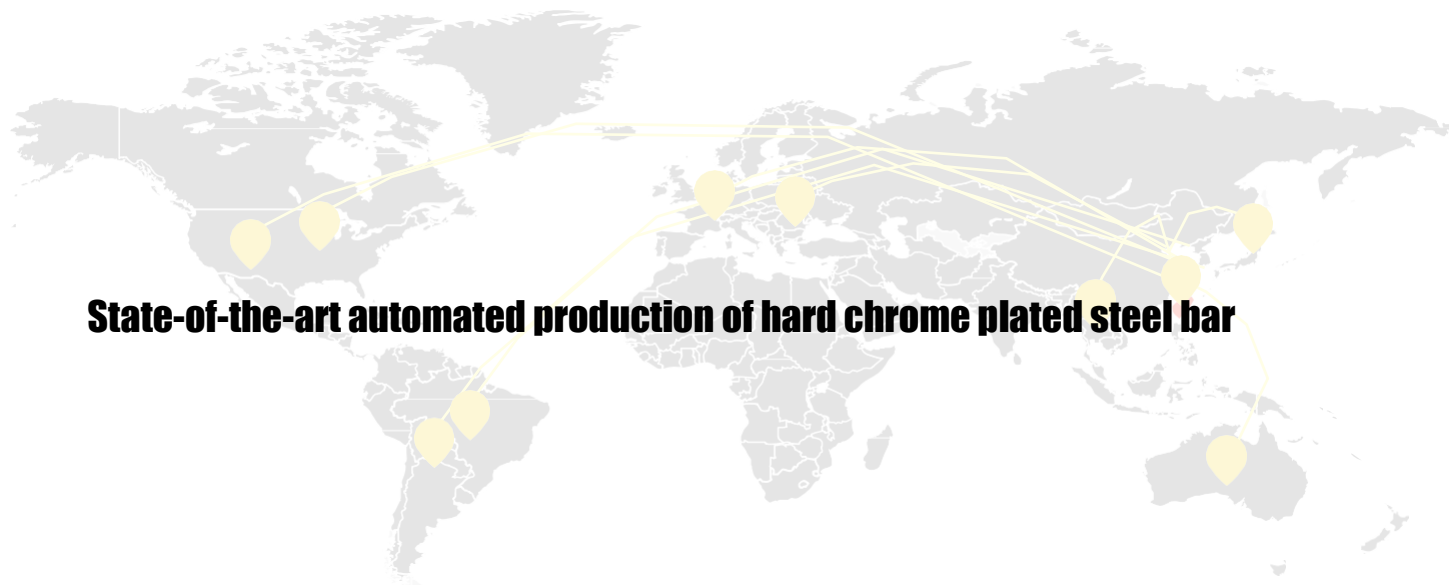
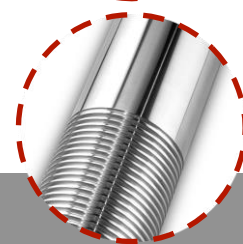




State-of-the-art automated production of hard chrome plated steel bar



Hard Chrome Plated Steel Bars



FU-LONG METAL INDUSTRIAL CO., LTD.

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Company Profile

- Established in 1979
- 240 employees
- Distributing to 45+ countries

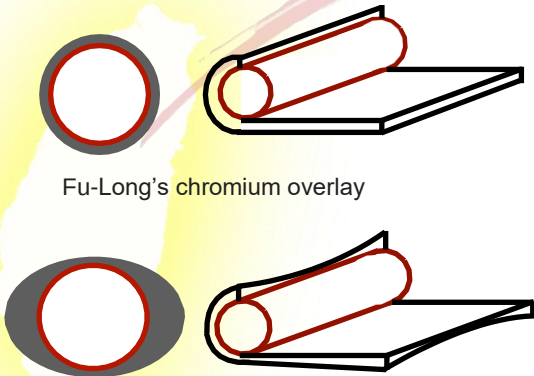
- ISO9001, ISO14001, ISO45001 Certification
- Production Area 33,000 sqm
- Production Capacity 3,000 ton./per month

Established in 1979, Fu-Long Metal Industrial Co., Ltd. was the first manufacturer dedicated to producing hard chrome plated steel bar in Taiwan. Fu-Long offers a wide range of products, including hard chrome plated bar, induction harden hard chrome plated bar, linear shaft, and customized precision rod for hydraulic and pneumatic cylinder. Collaborating with our customers has allowed Fu-Long to gain better insight into their most detailed needs. Over the past four decades, Fu-Long has been devoted to advancing the treatment of metal surfaces, strengthening corrosion resistance, with the goal of improving component efficiency. In order to improve the manufacturing process, Fu-Long has invested millions of US dollars to expand the factory and office buildings. Special attention has been paid to develop our own unique one-stop integrated automatic processing system for increased efficiency, ensuring stable quality and reducing cost. Today, Fu-Long is distributing our products to more than 45 countries with a continuing focus on the Global market!

Quality

Horizontal Automatic Plating

The horizontal automatic plating machine can make the plating layer even and enhance its accuracy, corrosion resistance, and service life.



Fu-Long's chromium overlay

Conventional chromium overlay

ASTM NSS Salt Spray Test

Hours	Grade
96	Rating 9.0
120	Rating 9.0
200	Rating 9.0
500	Rating 9.0



Product Overview

HIGH STRENGTH STEEL BAR, with
EXCELLENT CORROSION RESISTANCE PROPERTIES!

Hard Chrome Plated Steel Bar

Steel grade: DIN CK45/ 20MnV6/ 38MnVS6

Diameter tolerance	ISO h7. f7. h8. f8. g6*. g7*
Surface roughness	Ra max. 0.20µm
Chrome layer thickness	Ø<20 mm: min. 15µm Ø≥20 mm: min. 20µm
Chrome layer hardness	HV850 min.(0.1)
Standard length	3000/6000 (mm)

Chemical Composition Table

Steel grade	C	Si	Mn	P	S
DIN CK45	0.42-0.48	0.15-0.35	0.60-0.90	Max0.030	Max0.035
20MnV6	0.16-0.22	0.10-0.50	1.30-1.70	Max0.035	Max0.035
38MnVS6	0.34-0.41	0.15-0.80	1.20-1.60	Max0.025	0.02-0.06

Mechanical Properties

Steel Grade	Diameter Ø mm	Tensile Strength R _m N/mm ²	Yield Point R _{p0.2} N/mm ²	Elongation A ₅ %
DIN CK45	6<Ø≤16	min.710	min.500	min. 5
	16<Ø≤40	min.650	min.410	min. 7
	40≤Ø≤100	min.580	min.305	min. 16
20MnV6	100<Ø≤200	min.560	min.275	min. 16
	30<Ø≤80	min.550	min.450	min. 10
	80<Ø≤100	min.550	min.420	min. 18
38MnVS6	30<Ø≤100	800-950	min.520**	min. 12

Note:
Impact energy: min. 27J at -20° C for 20MnV6.
**On request we can provide material with R_{p0.2}min. 590 or 690 N/mm²

