

A Brand by

 **Manaksia Coated Metals  
& Industries Limited**

[www.manaksiacoatedmetals.com](http://www.manaksiacoatedmetals.com)



**ZINGALVO**®  
*Galvanized Steel Coils & Sheets*



***PREMIUM . DURABLE  
GALVANIZED STEEL***

# GALVANIZED STEEL FROM MANAKSIA COATED METALS & INDUSTRIES LTD.

“CHOOSE ZINGALVO - HIGH QUALITY  
GALVANIZED STEEL COILS & SHEETS TO BOOST  
THE DURABILITY OF YOUR PRODUCTS”  
**EXPERIENCE & EXPERTISE**

Manaksia Coated Metals & Industries Limited (MCMIL) is a prominent manufacturer and exporter of coated steel products. It is a part of the conglomerate Manaksia Group, headquartered in Kolkata. Manaksia Group possesses manufacturing operations in India, Nigeria, and Ghana, specializing in a variety of industries including flat metal products consisting of steel and aluminum; packaging products consisting of crowns, closures and metal containers; and consumer goods consisting of mosquito repellent coils. Manaksia Group supplies its products all over India, Africa, and Europe.

**Manaksia Coated Metals & Industries Ltd. has been operating its Steel plant in Kutch, Gujrat, with a production capacity of 120,000 TPA. The manufacturing facility encompasses a Color Coating Line, and a new state-of-the-art Galvanizing Line. In addition, further expansions consisting of setting up a new Cold Rolling Complex towards backward integration as well as a second appliance grade Color Coating Line focusing on capacity enhancement are already under progress. Upon completion, the plants production capacity will have increased to 180,000 TPA.**

With a focus on producing the best quality of products, Manaksia Coated Metals & Industries Ltd. is accredited with the ISO 9001:2015, ISO 14001:2015, and OHSAS 45001:2018 certifications. Targeting the General Engineering, Home Appliances, and Construction segment, Manaksia Coated Metals & Industries Ltd. has gained the trust of customers all over India as well as Europe, Russia, Africa, and the Middle East.

Manaksia Coated Metals & Industries Ltd. also has a significant logistical advantage for reaching its customers with its wide range of products. The manufacturing facility is situated close to the Kandla and Mundra Port in Gujrat, which is one of the major ports in the west coast of India.

**The Galvanizing Line can produce several grades and finishes of Galvanized Steel, in either soft or full hard and in different GSM coating options as per the customer requirement. Manaksia Coated Metals & Industries Ltd. has a vision to touch the lives of millions of people with the steel it produces. The company strives for excellence across all its operations, which allows it to maintain quality at competitive prices.**

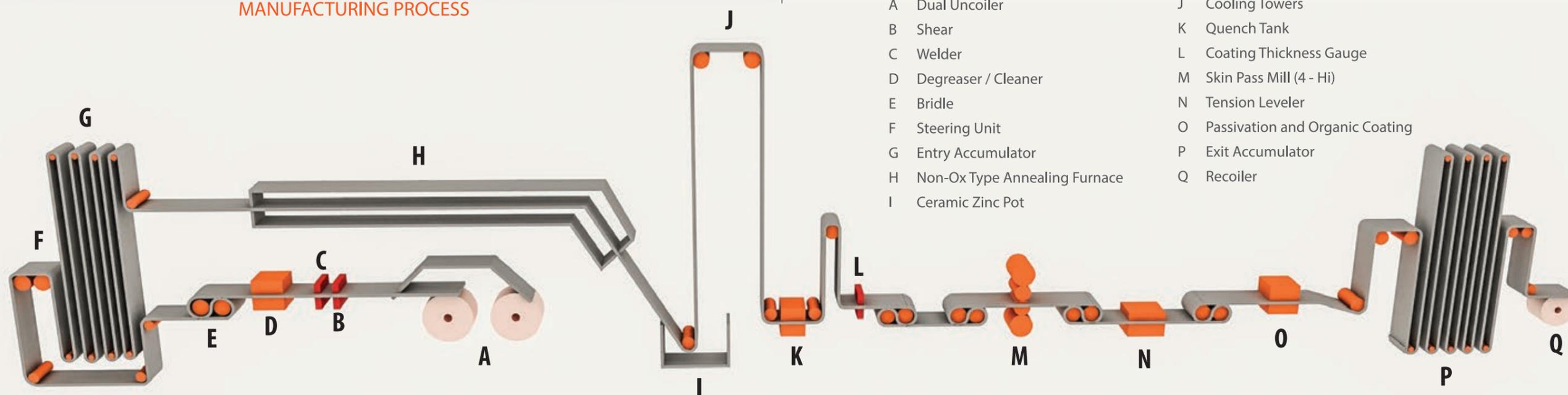


## MANUFACTURING

Manaksia Coated Metals & Industries Ltd. has set up a state-of-the-art Galvanizing Line with a NON-OX furnace that allows excellent surface cleaning, annealing, and preparation of the steel strip before it enters the hot dip galvanizing zinc bath. The zinc bath composition is controlled to achieve the ideal coating properties, and the coating thickness is controlled by our automated air-knife system. This is followed by a skinpass process and tension leveling to achieve the perfect finish and flatness that also aids in color coating in the future. Post-surface treatment in the form of chromating is done to further enhance the corrosion resistance and also provide sheen on the surface.

The line also has an optional vertical chemical coater, which enables the application of AFP and Organic coatings. The whole process is computer aided to help achieve higher levels of uniformity and perfection. Quality control measures are also established at every important step with the help of thickness gauges, crack detectors, and manual inspections. The end result is a superior product with improved zinc adhesion and surface finish that adheres to international quality standards.

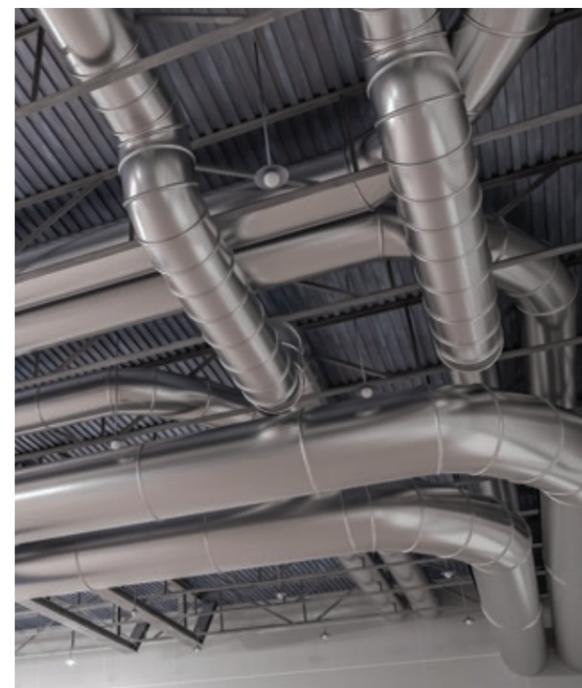
### MANUFACTURING PROCESS





## ZINGALVO

MCML's Zingalvo is the brand name for the hot dip galvanized steel. It is made with the highest precision and quality according to the customer's requirements. The superior surface finish makes it good for end use as well as further paint-ability.



## APPLICATIONS

- **Construction** – Steel Framing, False Ceilings, Sandwich Panels, Ducting, Decking, Purlin, HVAC Applications, Doors, Cladding/Siding, Building Accessories, Sliding Shutter, Canopies of Gas Stations, Pre-Fabricated Buildings, Bill Boards
- **White Goods** – Refrigerators, Deep Freezers, Washing Machines, Air Coolers, Cooking Oven
- **Automotive** – Automotive bodies, Auto Internal Components, Bus & Trains
- **Furniture** – Office Equipment
- **Containers** – Grain Silos, Drums & Barrels, Crash Guards/ Handrails
- Packaging
- Piping, Light Fixtures & large poles for commercial lighting
- Computer Peripherals



## FEATURES

- Prolonged Corrosion Resistance
- Excellent Surface Finish
- Uniform Flatness
- Precision Coating Control
- International Quality Standards Compliant





## QUALITY & TESTING

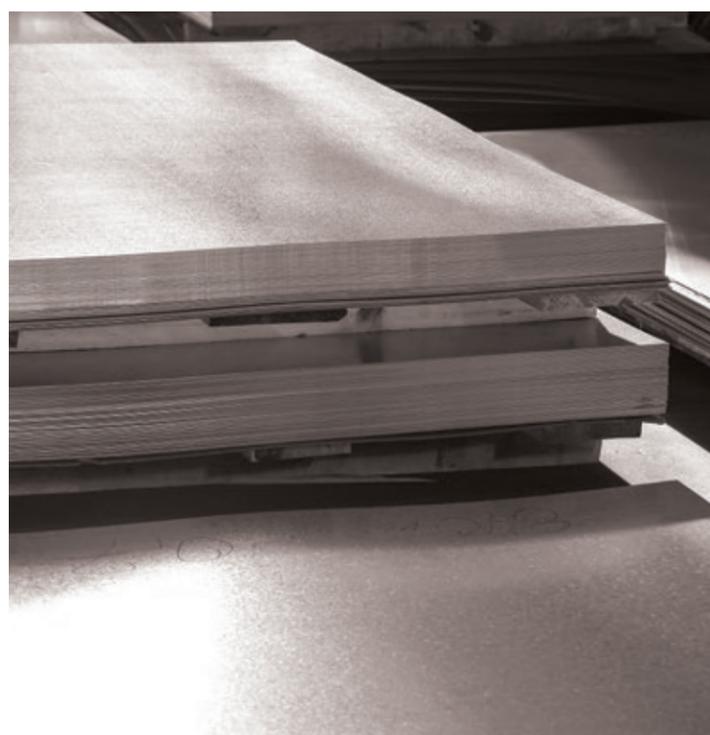
Quality control measures are established at every important step of the production line by incorporating the latest technologies that can detect any irregularities in the product being processed. Zinc coating gauges to detect the coating GSM, and manual inspections of the surface are some of the important quality control procedures in place that ensure the product is meeting the standards of the customer. The galvanizing line is also equipped with the latest instruments to monitor all the key parameters of the line in order to facilitate smooth process flow, without any deviations from the ideal running conditions that could potentially hamper the quality of the product.

Manaksia Coated Metals & Industries performs comprehensive testing on the raw material and finished product to certify the quality standard needs of the customer. All the mechanical properties of the material are tested through various tests like the tensile test, elongation test, hardness test, conical mendral/anti fluting test, impact test, and bend test. Chemical tests are also done on the coating metals and chromating solution to check for purity and concentration.

SPECIFICATION	GRADE	MECHANICAL PROPERTIES			CORROSION RESISTANCE TEST
		Yield Strength (Mpa)	Tensile Strength (Mpa)	% Elongation (Min.)	HRS.
ASTM 653/A	CS TYPE A	170/380	-	20	750
	CS TYPE B	205/380	-	20	
	CS TYPE C	170/410	-	15	
JIS G 3302	SGC 400	295 Min.	400 Min.	18	750
	SGC 440	335 Min.	440 Min.	18	
	SGC 490	365 Min.	490 Min.	16	
	SGC 570	560 Min.	570 Min.	-	
IS 277	GPH	400 Min.	-	-	750
	GPL	350 Max.	450 Max.	24	
	GPD	280 Max.	430 Max.	26	
EN 10346	DX51D	-	270 - 500	22	750
	DX52D	140 - 300	270 - 420	26	

## PRODUCT SPECIFICATION

	HDG Coils	HDG Plain Sheets
Thickness (mm)	0.14 – 1.0 mm	0.14 – 1.0 mm
Width (mm)	750 – 1350 mm	750 – 1350 mm
Coil / Pkt Weight (MT)	5 – 15 MT	4 MT (max)
Coil ID (mm)	508 / 610 mm	-
Sheet Length (mm)	-	1800 – 5180 mm
Coating Type	Zinc	Zinc
Coating GSM	50 – 300	50 – 300
Surface Finish	Bright with regular/zero spangles Skin Passed & Tension Levelled	Bright with regular/zero spangles Skin Passed & Tension Levelled
Surface Treatment	Cr(VI)/Cr(III)/Chrome Free/Oiled/TOC/AFP	Cr(VI)/Cr(III)/Chrome Free/Oiled/TOC/AFP
Standards	IS 277 / JIS G3302 / ASTM A526/EN 10142	IS 277 / JIS G3302 / ASTM A526/EN 10142
Grade	FH / CQ / Drawing / Deep Drawing	FH / CQ / Drawing / Deep Drawing



## PACKING / PACKAGING:

Manaksia Coated Metals & Industries Ltd. ensures the packing of the products is done in compliance with the customer requirements and international norms. The packaging is prioritized to prevent any damage during transport and remain durable. It is also done in a manner that facilitates easy handling of the material. Apart from the physical packaging, the product is marked with tags containing all the necessary information for easy identification, including material specification, size, destination, net weight, gross weight, and coil number.



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