



HOT DEEP GALVANIZING LINES

AND ADVANCED MACHINERY CENTER





Mekosan was established in 1997 in Kayseri in Turkey. Since the partners of Mekosan have a large experience in steel wire and cable sector Mekosan began the activities especially for wire and cable industry. At the beginning wire drawing machine and the automation systems are the basic production and business for Mekosan. In the time being Mekosan has experiences in different branches.

Now in Mekosan team there are more than 100 workers and 30 engineers are working in two production plants in 15.000 square meters area.

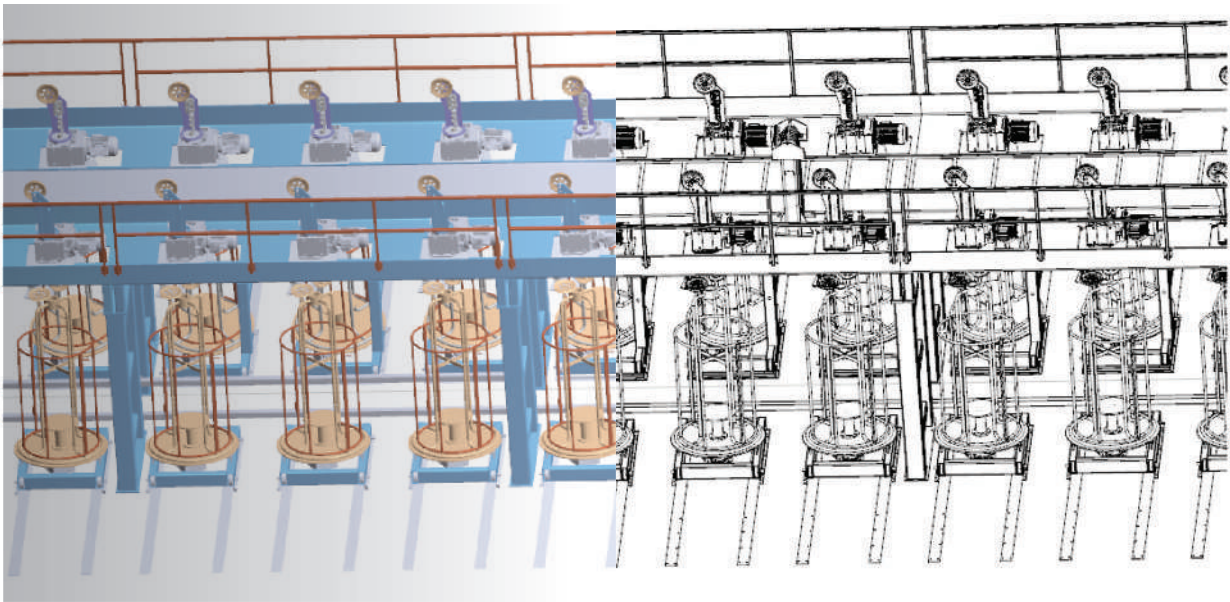
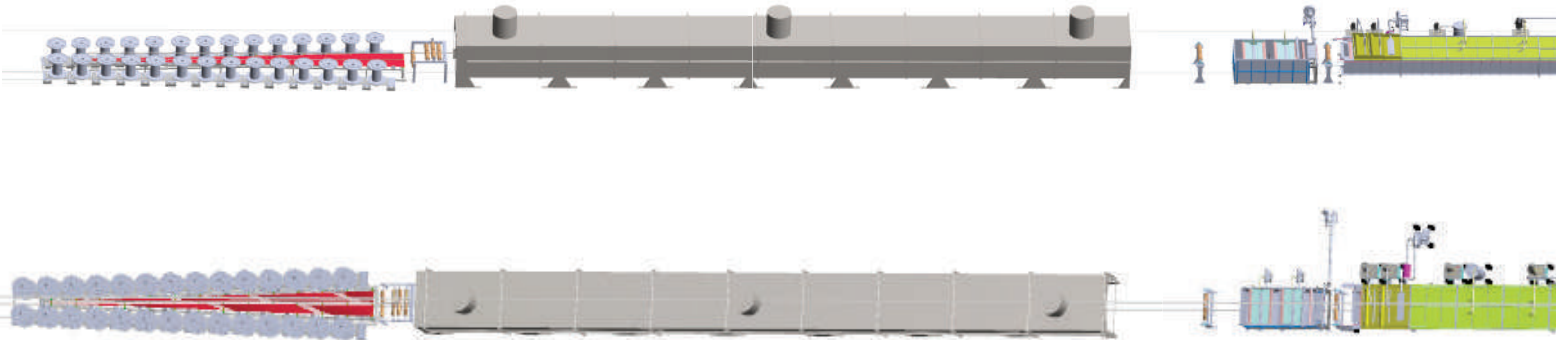
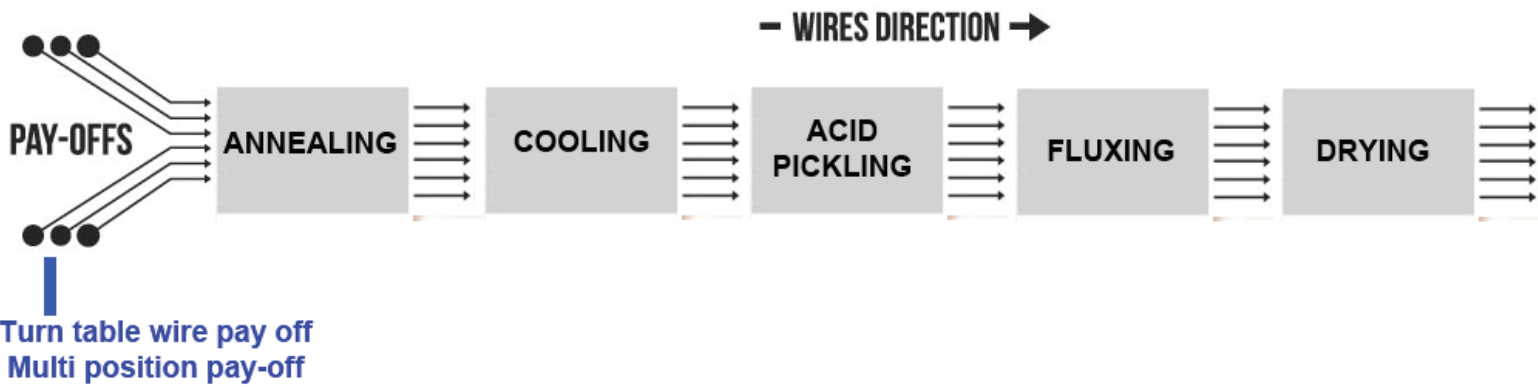
The main businesses can be classified as :

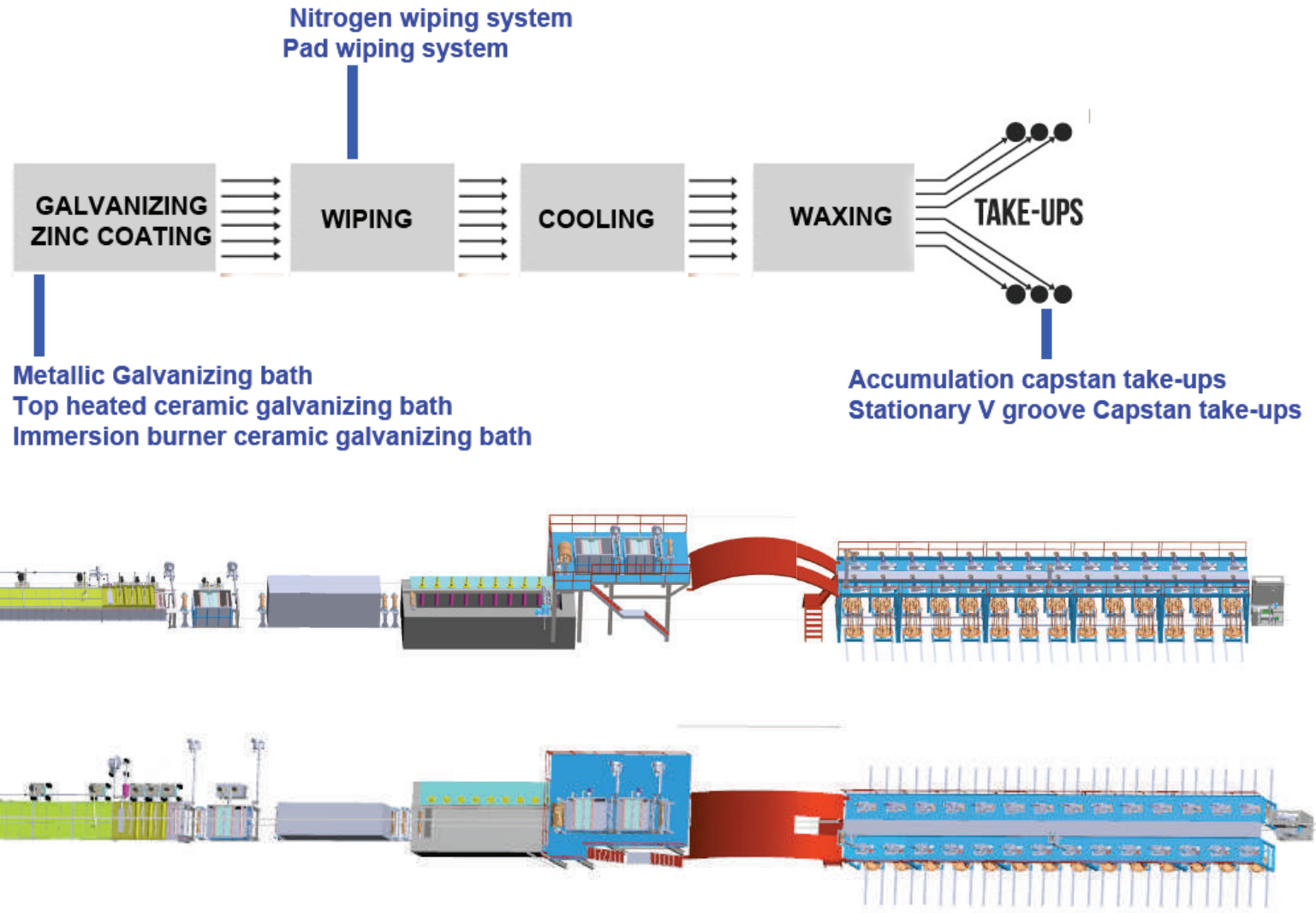
- ▶ Hot deep galvanizing lines and accessories for low & high carbon steel wires.
- ▶ Wire drawing lines and accessories for low & high carbon steel wires.
- ▶ Wire drawing lines and accessories for copper and aluminum wires .
- ▶ Nails packaging lines.
- ▶ Automatic packaging line for tubes and profiles.
- ▶ Automatic painting line for tubes and profiles.
- ▶ Automation system engineering.

Mekosan is one of the most important partner of ABB in drives and motors. Mekosan is not only a distributor of ABB drives also one of the Drive Alliance Partner.

Mekosan wants to be a well-known company in the world with its technology and quality. Because of this vision, all the team works very hard and follows the last technology which can be applied to the systems.

So with this vision and mission %30 of production is for more than 22 countries around the world. And the target is to increase the export to %60 of the total production.





REFERENCE TECHNICAL DATA

WIRE QUALITY	HIGH CARON AND LOW CARBON STEEL WIRE
DIAMETER RANGE	Ø 0.80 - 10.0 mm
NUMBER OF WIRES	16 - 40
DV	100 - 140 FOR LOW CARBON WIRE 80 - 120 FOR HIGH CARBON WIRE
ZINC COATING THICKNESS	40 - 350 gr / m2
HEATING	NATURAL GAS

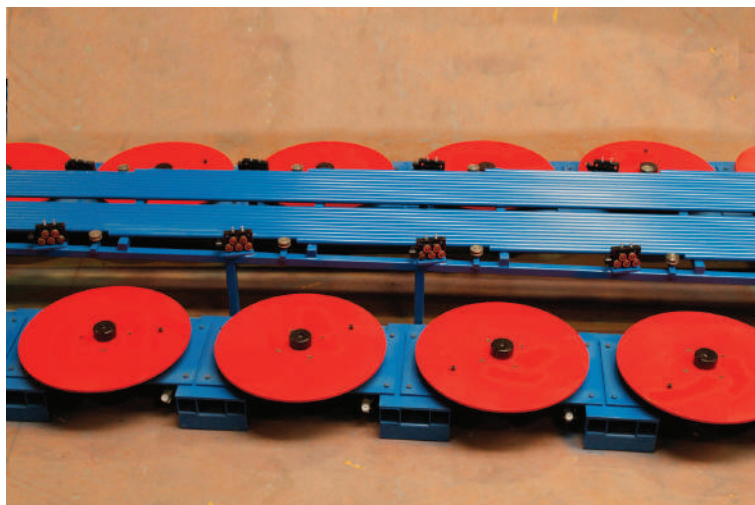
PAY - OFFS

Turn table wire pay off

Coil weight: up to 2500 kg

The pay-off structure is made of welded steel sheets. Each pay-off will have adjustable pneumatic disc brake system for suitable tension. It has one quick stop button for stopping itself and the take up.

The rotating table has removable tension arms for the coils coming from the collapsible spools.



Multi position pay-off with provision continuity of process technology

Each pay-off structure is made of bent and welded steel sheets and provides a mounting for two spools / coils; one is in working position and the other is in standby position.



TAKE - UPS

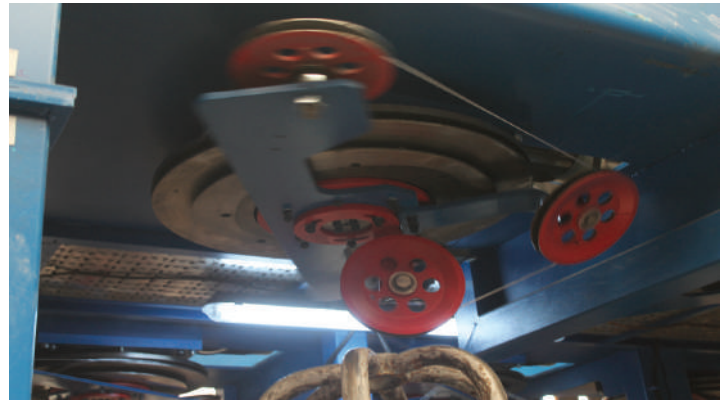
Accumulation capstan take-ups

The use of accumulation capstan pay-offs and take-ups is essential where a continuous (non stop) process is required during spool change operation.



Stationary V groove Capstan take-ups

The stationary capstan take-up frames are typically used to take-up annealed and galvanized low carbon wire, patented and phosphated or galvanized high carbon wire. The system can also be utilized to take-up hard drawn low and high carbon wire.

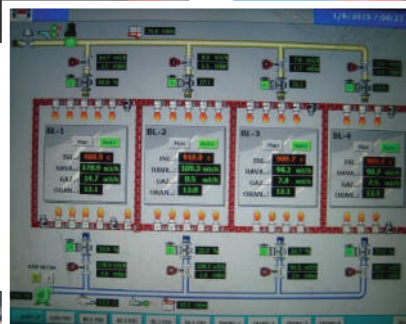


HEAT TREATMENT EQUIPMENT

Open Fire Furnace

Advantages of the Open Fire Furnace :

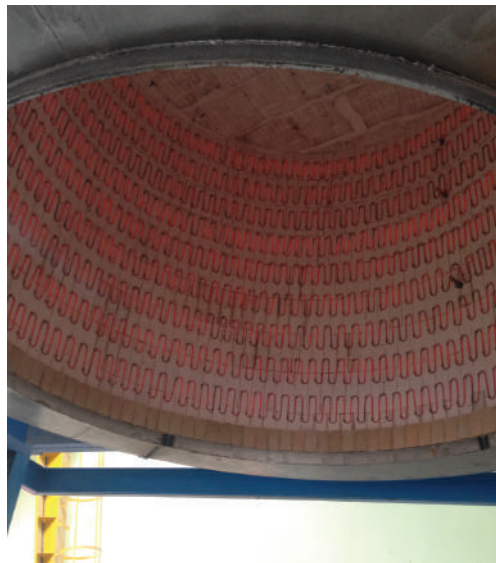
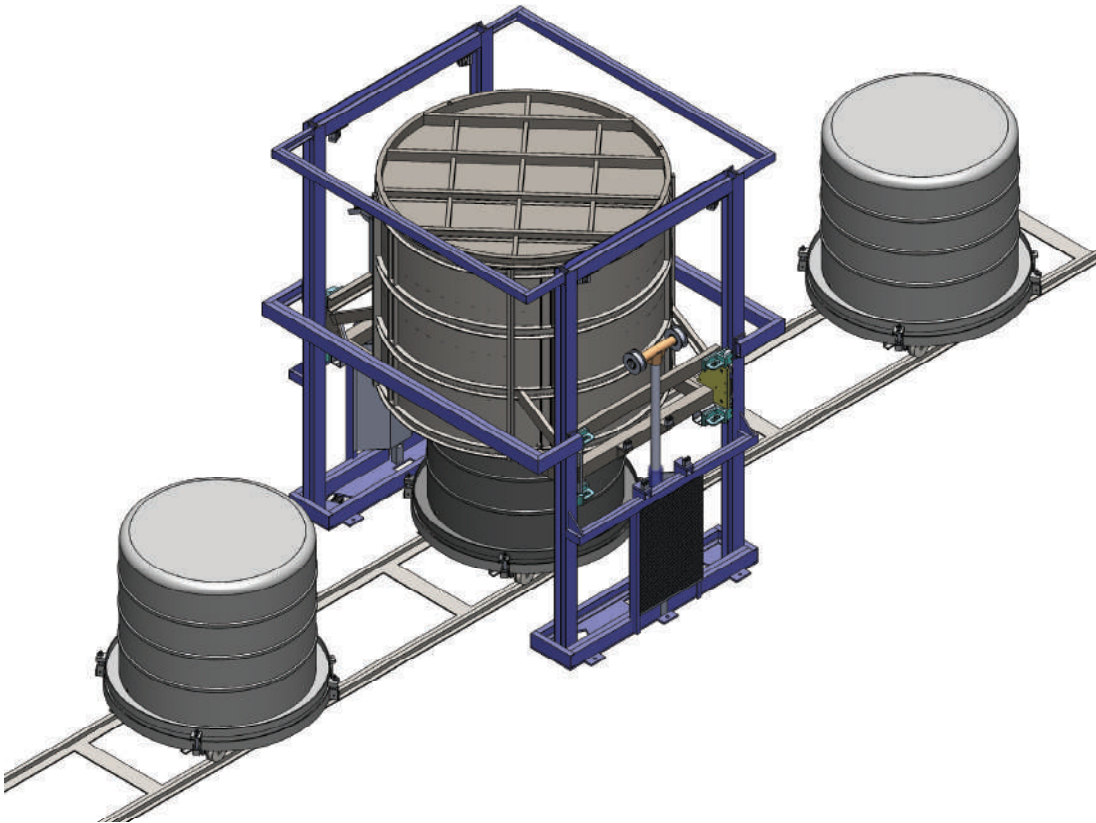
- ▶ There is no flame in the furnace due to its design and burner installation. The main aim of the design is to anneal the wire by using the heat of the refractory and the ambient temperature. Because of burner characteristics and design of the furnace there will be no oxidation and scales on the wires. So the annealing quality is same as the fluid bed furnaces.
- ▶ Since the furnace is made of independent zones, the capacity can be increased by adding new zone in the future.
- ▶ No distortion occurs due to expansion in the furnace structure. Because of the appropriate design considering the thermal expansion during the steel construction and refractory material weaving.
- ▶ The system is provided with gas leak control system. If gas leak is detected, the system will not start.



Bell Type Electrical Furnace :

Body: Steel
 The outer steel sheet: 5 mm ST 37
 Steel of the inner leaf: 5 mm Cr Ni 310

NICKEL CHROME FOR LONG TERM USE
 Programmable control system included.
 Natural atmosphere control antioxidant system.



HEAT TREATMENT EQUIPMENT :

- ▶ Open fire furnace
- ▶ Lead furnace
- ▶ Bell Type Electrical Furnace

WET PROCESS EQUIPMENT

- ▶ Acid pickling bath
- ▶ Flux bath
- ▶ Waxing tank
- ▶ Cooling tank
- ▶ Quenching tank





ZINC COATING AND WIPING SYSTEMS

ZINC COATING EQUIPMENT:

- ▶ Metallic Galvanizing bath
- ▶ Top heated ceramic galvanizing bath
- ▶ Immersion burner ceramic galvanizing bath

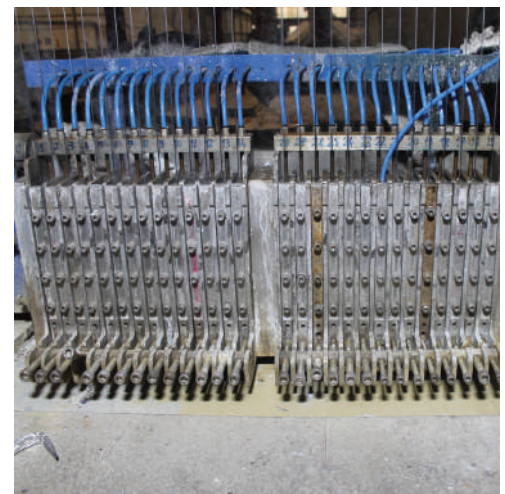
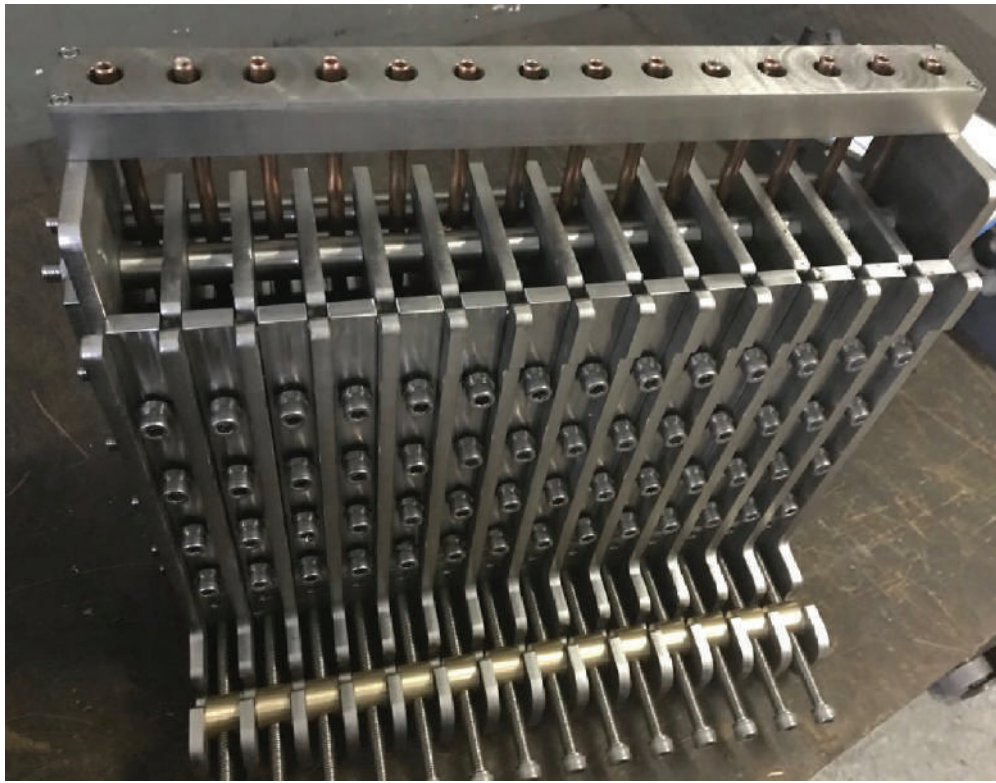
Our Zinc baths have special Burning system and low fuel consumption.

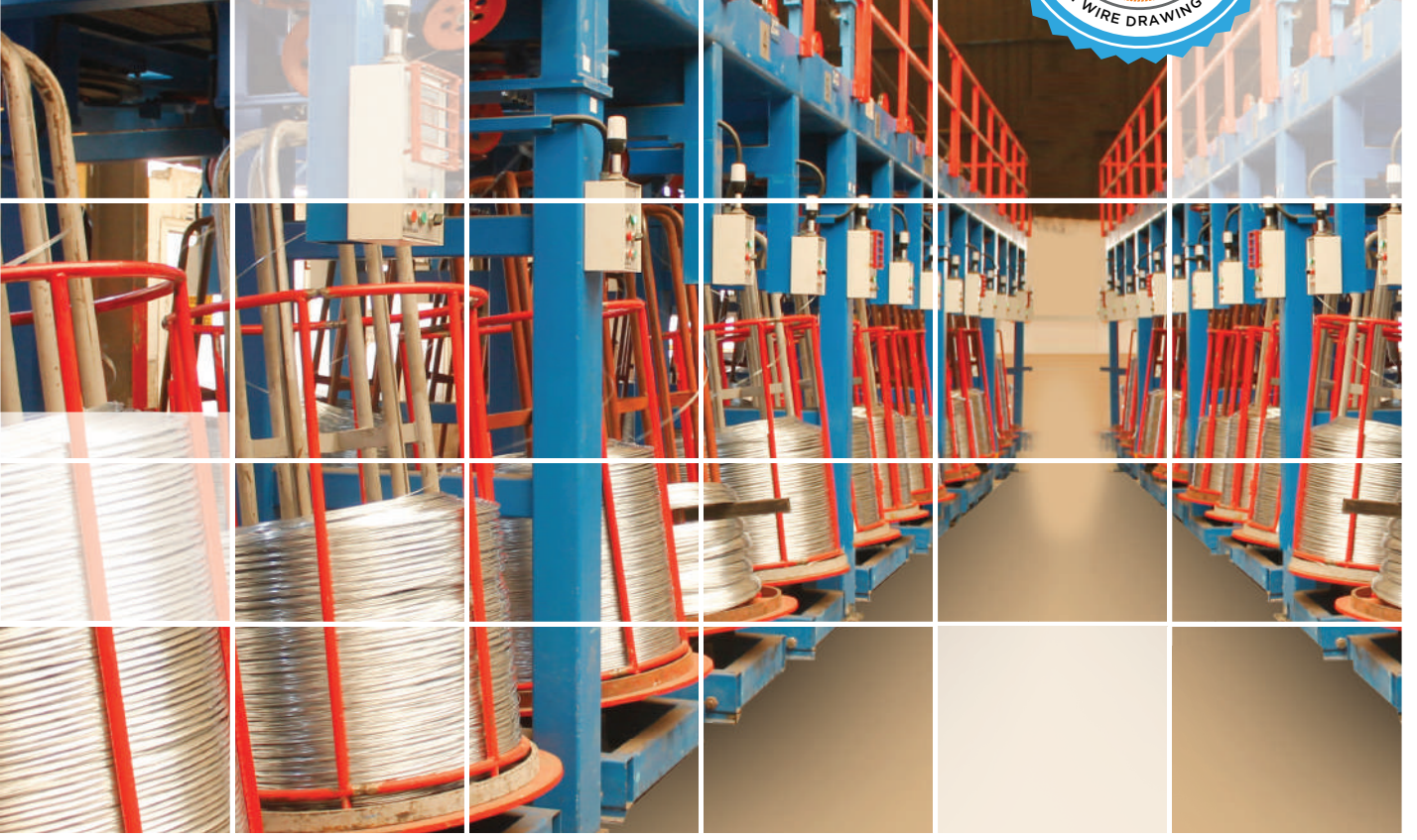


WIPING SYSTEMS

- ▶ Nitrogen wiping system
- ▶ Pad wiping system

Zinc wiping system is the most important component of the galvanizing process. We have developed zinc wiping systems with excellent results in both low and high zinc coatings.





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