



# SARMAKINA



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## About SARMAKİNA

**SARMAKİNA Sanayi ve Ticaret A.Ş** was established in 1991 by **SARKUYSAN Elektrolitik Bakır Sanayi ve Ticaret A.Ş.** The company is not only the leader of **copper** wire manufacturing in Turkey, but also one of the best known manufacturers worldwide.

The Plant is located in Gebze with a total floor space of 13,000 m<sup>2</sup> and site area of 16,000 m<sup>2</sup>

**SARMAKİNA** is an engineering, manufacturing and contracting company.

**SARMAKİNA** is a successful leading company both in domestic and international markets, for designing and manufacturing of machinery, serving to electromechanical industry , on turn-key basis with environmental protection projects especially prevailing in wire and cable industry.

**SARMAKİNA** Management is formed by experienced professionals and engineers with high standard expertise in **copper** and non ferrous metal industry, machinery and electric.





## **Mission**

Our target is to produce such high quality, competitive products and solutions, just in time by using our resources effectively to gain customer satisfaction and loyalty

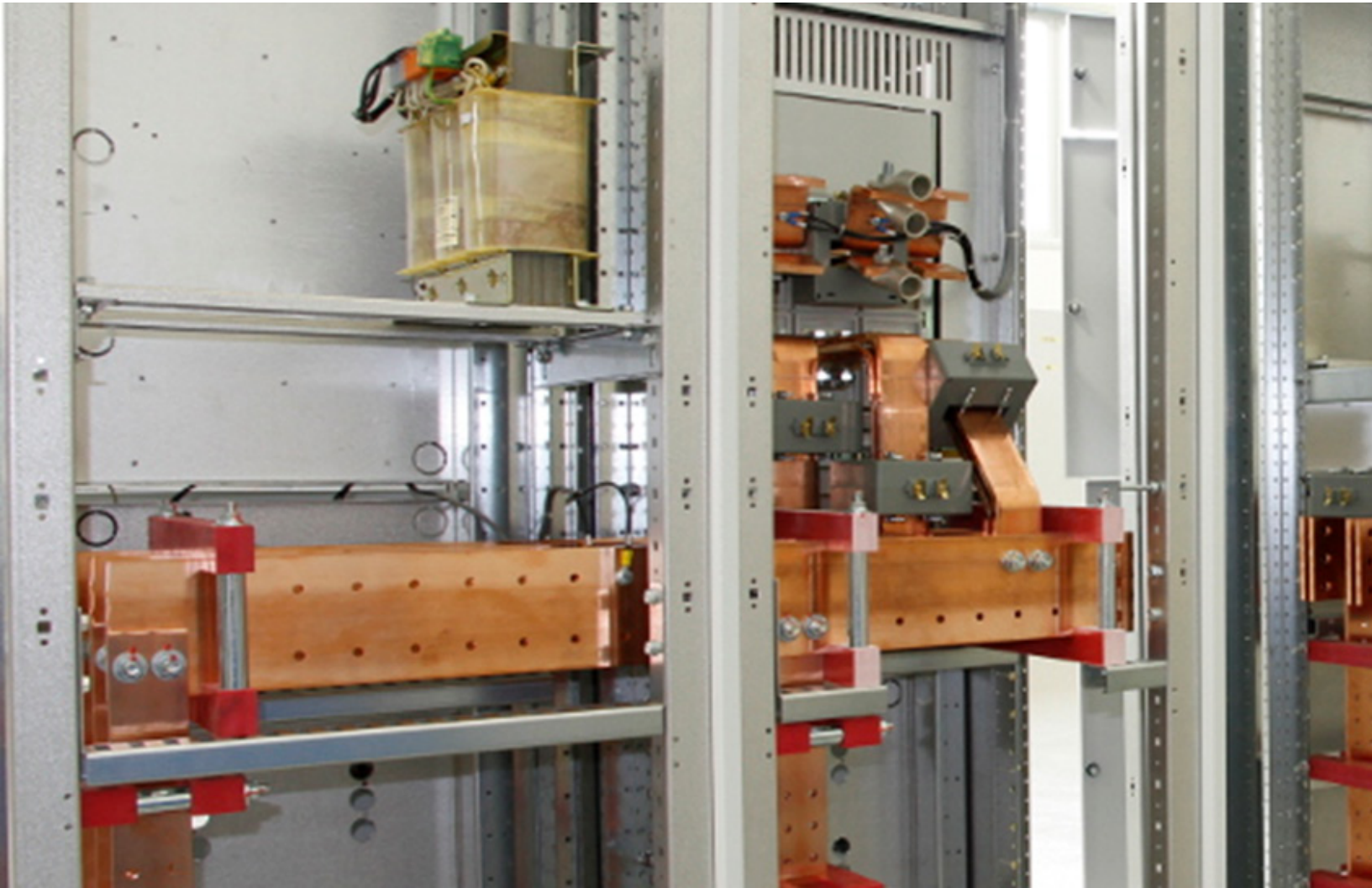


## **Vision**

Our vision is providing quality and productivity growth by the method of total quality management and carrying our leadership from the domestic market to the worldwide markets

## BUSBAR IN ELECTROMECHANICAL INDUSTRIES

SARMAKINA offers wide range flexible and solid copper / aluminium busbars , copper plates , copper components, insulated copper busbars and assembled busbar kits.



Our main aim is to **maintain and improve** our place among the leading producers in the world's quality race by virtue of high technology, accumulation of information, experience and qualified workforce.



# PRODUCTS FOR TRANSFORMER & SWITCHGEAR

## SOLID COPPER BUSBAR

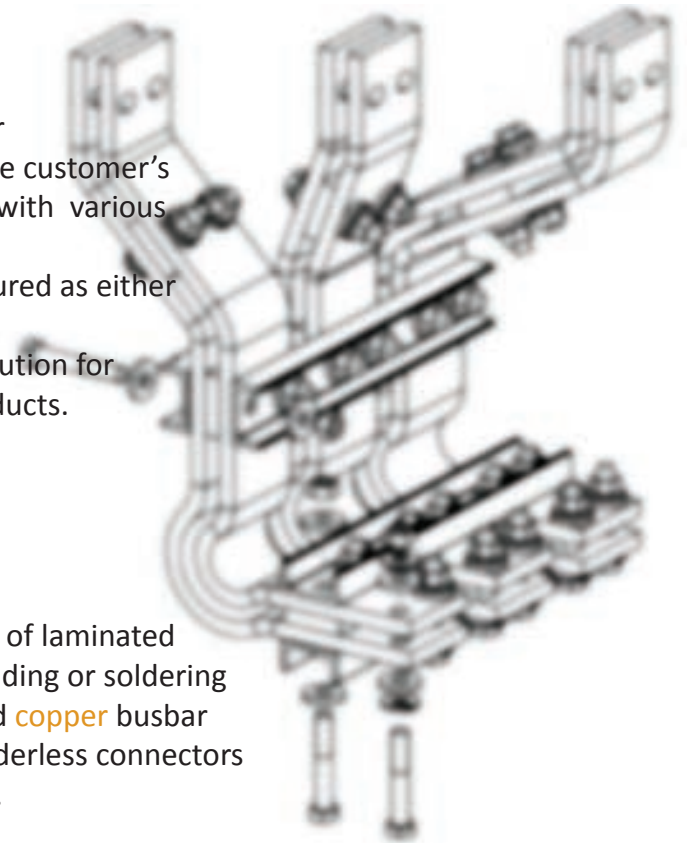
SARMAKINA offers complete solid copper/aluminium busbar manufacturing. In order to provide an instant response to the customer's requirements, Full copper stocks in house , and it's growing with various types of copper bars and strips.

Depending on customer request, products can be manufactured as either tin, silver or nickel plated.

Fabricated busbars provide a quick, easy and economical solution for transformer, switchgear, switchboard and wind turbine products.

## FLEXIBLE & BRAIDED COPPER BUSBAR

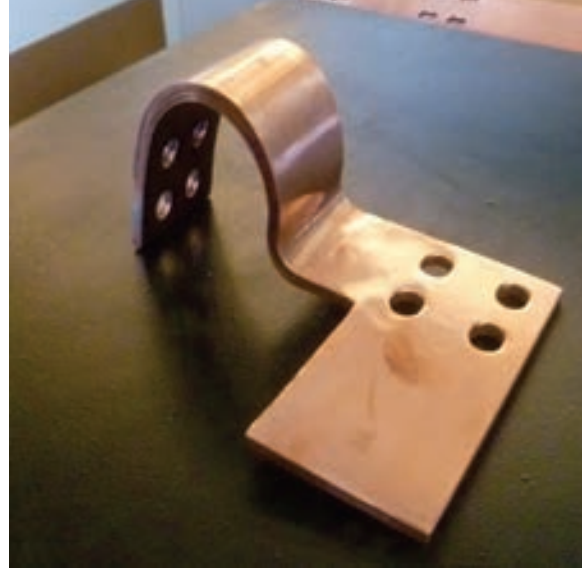
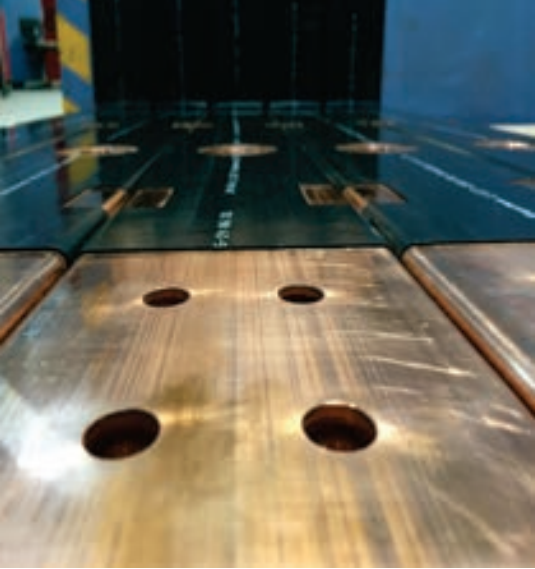
Flexible copper busbars consist of (0,10-1,00)mm thickness of laminated electrolytic Cu strips. Copper strips are welded by press welding or soldering process. Another kind of flexible connector is called braided copper busbar which is made of annealed tinned or bare copper wires. Solderless connectors are produced in various forms based on customer's request.







**We have kept our quality on the highest level possible  
and have advanced our technology along with time  
and novelty.**



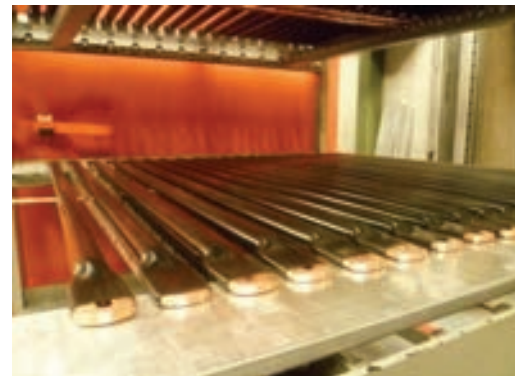
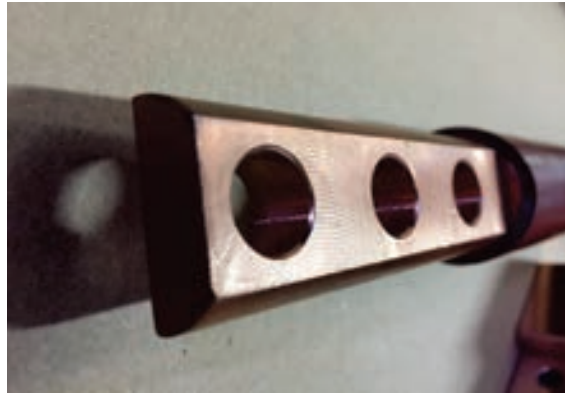
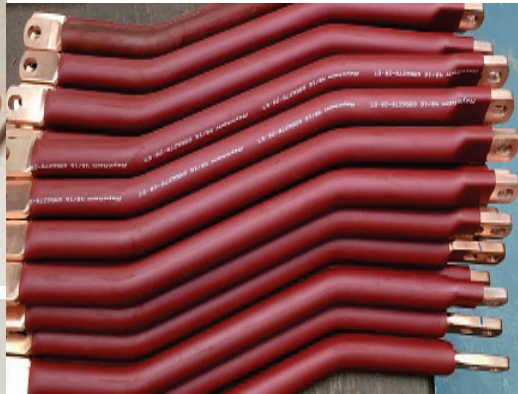
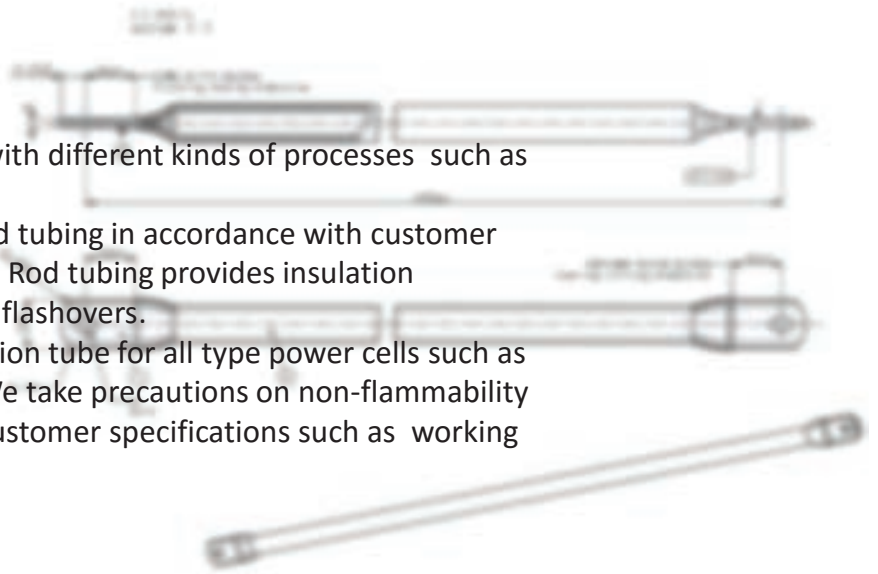
## COPPER ROD & TUBE

### Busbar & Rod / Heat Shrinkable Tubing:

Bare copper tubes and rods are manufactured with different kinds of processes such as bending, pressing and punching.

SARMAKİNA offers heat shrinkable Busbar & Rod tubing in accordance with customer request and drawings. Heat shrinkable Busbar & Rod tubing provides insulation enhancement and protection against accidental flashovers.

SARMAKİNA chooses proper high quality insulation tube for all type power cells such as low voltage , medium voltage or high voltage. We take precautions on non-flammability standards & regulations while complying with customer specifications such as working temperatures of busbars inside power cells.





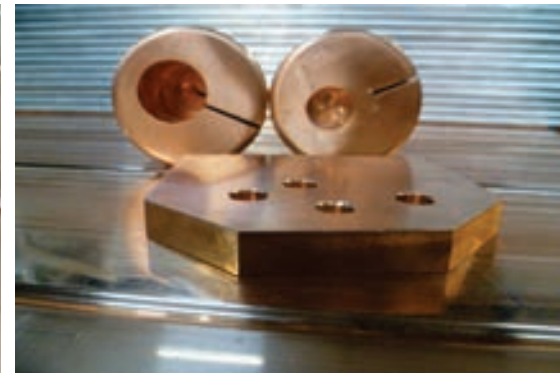
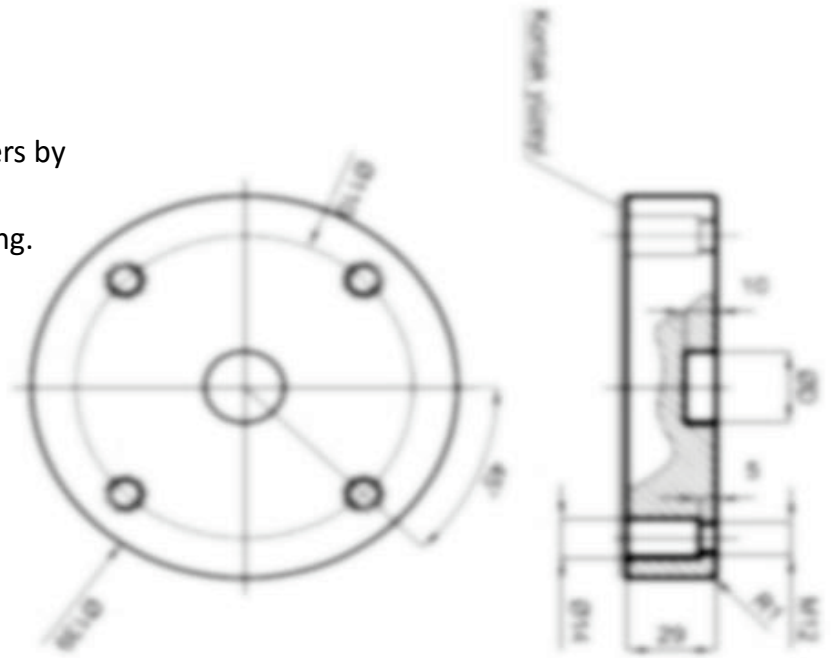
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## COPPER COMPONENTS

SARMAKINA meets the expectations of its' customers by generating particular work of copper component.

Perfect machining and relevance to technical drawing.

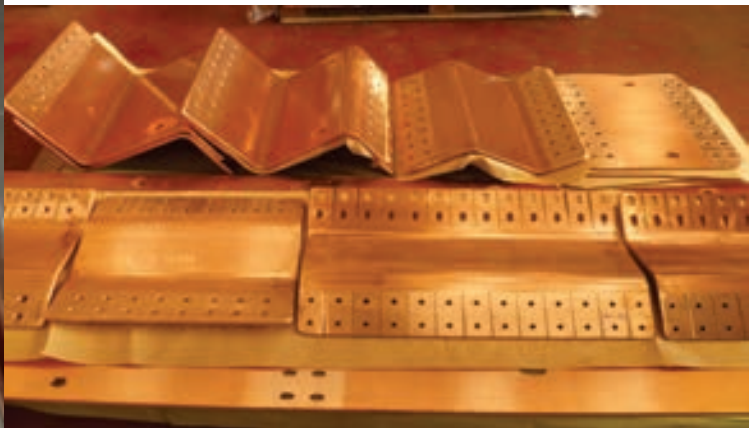
Machining process can be completed with various surface treatments ; Tin , silver or nickel coating...





## COPPER PLATES

Copper Plates are oftenly used in distribution and power transformers. SARMAKINA's cransftsmanship and know-how based copper plate production create trust in heavy duty transformers.



**SARMAKİNA** has started serving to wind power industry with assembled kit solutions.

**Copper** busbars are being used in trunking systems instead of cable & wire process for safer & cost efficient power transmission

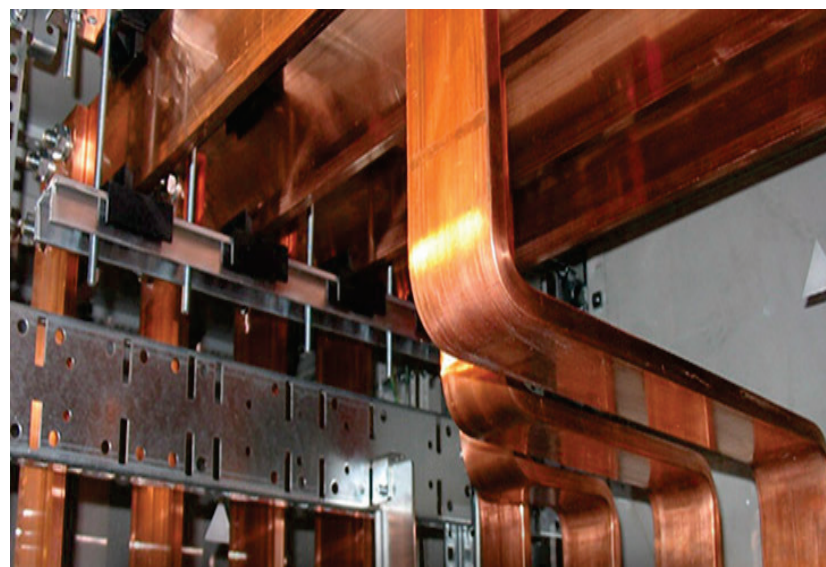


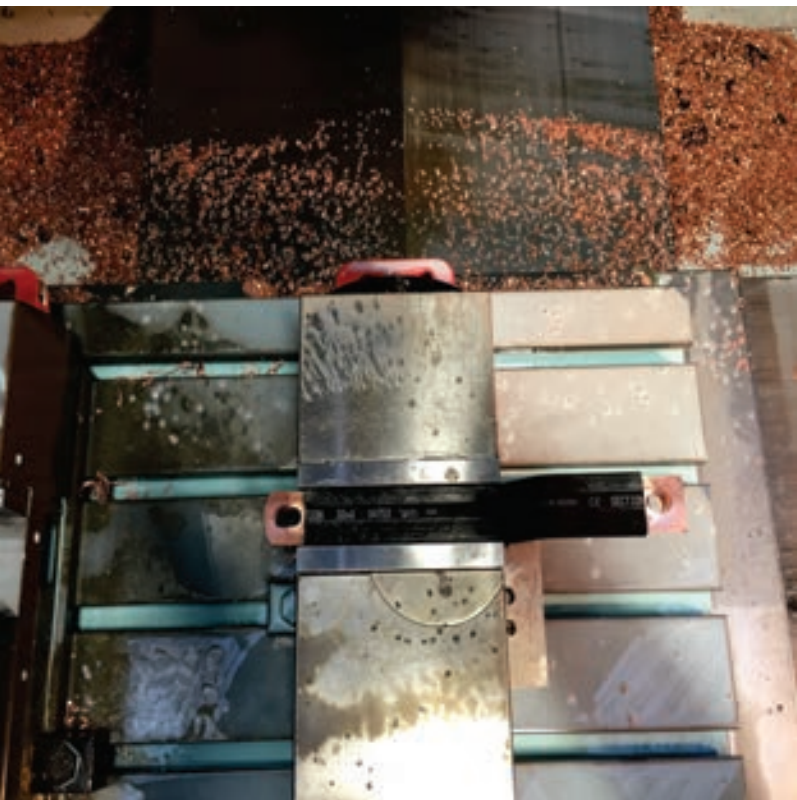


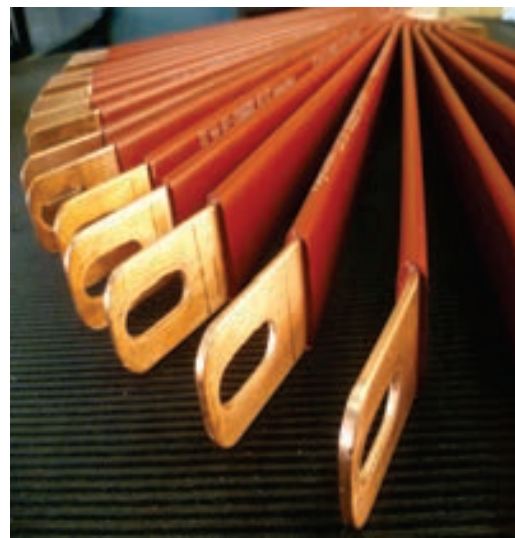
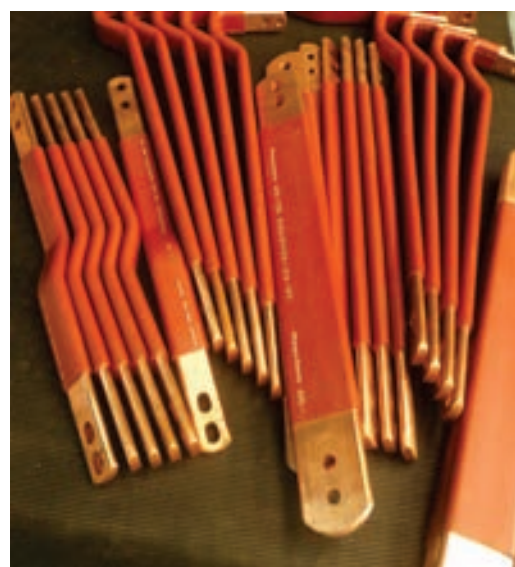
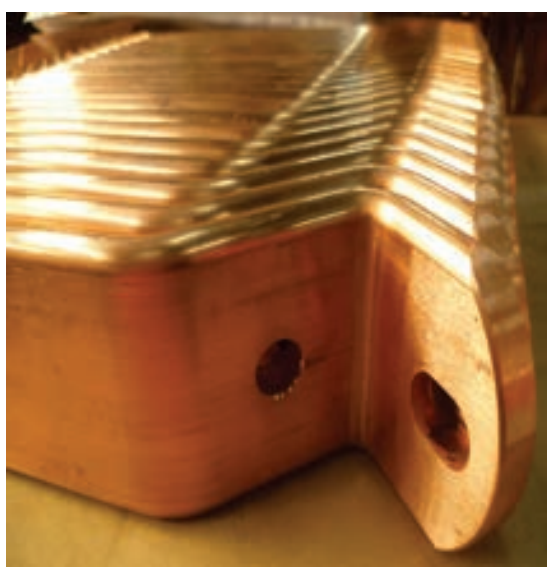
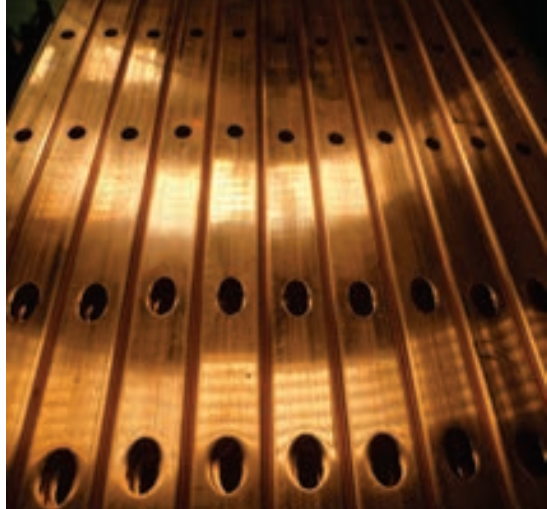
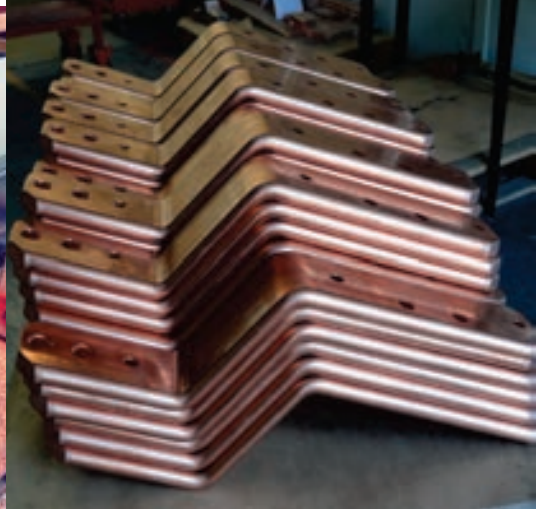


## BENEFITS OF **BUSBAR** KIT IN TURBINE

- Modular and compact design
- Safe and reliable in operation
- Easy to install
- Safe and Sustainable
- Halogen Free
- Recyclable
- Cost Efficient
- Space Saving







## Quality Policy

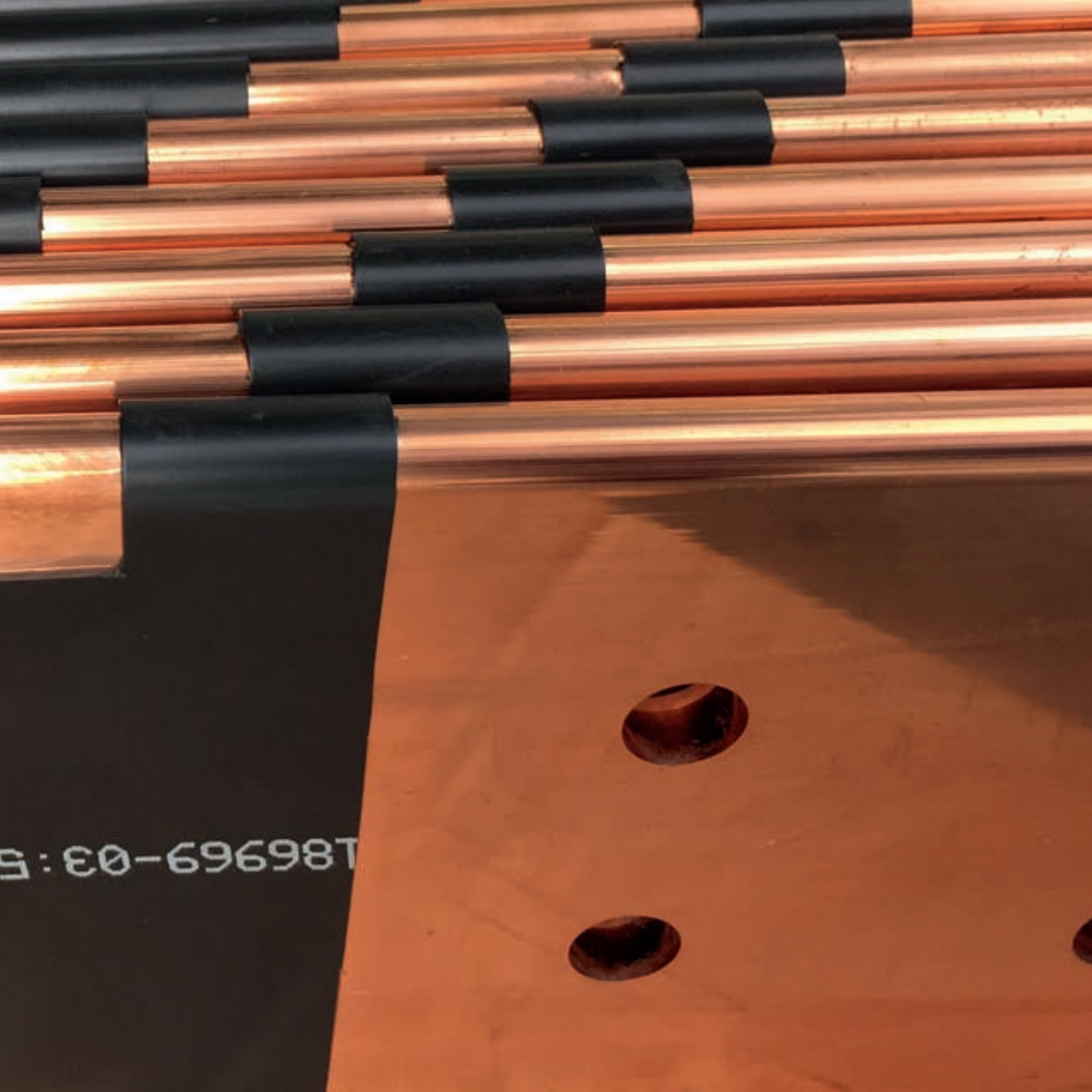
Quality Policy of SARMAKİNA is to produce quality goods, which meet the needs and expectations of our customers. Effective implementation of Quality Assurance System enables that the products of are produced in compliance with customer satisfaction.

SARMAKİNA, is certified with ISO 9001:2008  
(TÜV Management Service GmbH - Germany)



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### **TECHNOLOGY**

We continuously re-evaluate our production systems and make necessary investments in equipment to make our production faster and more cost-effective. Our strategy is to ensure customer component's quality first, then look for means to make the production in most cost effective way , Implementing lean principles at every stage to define right cost. We follow latest technology to enhance our machine facility and We keep quality at high stage with considering minimal technical tolerances

### **QUALITY CONTROL**

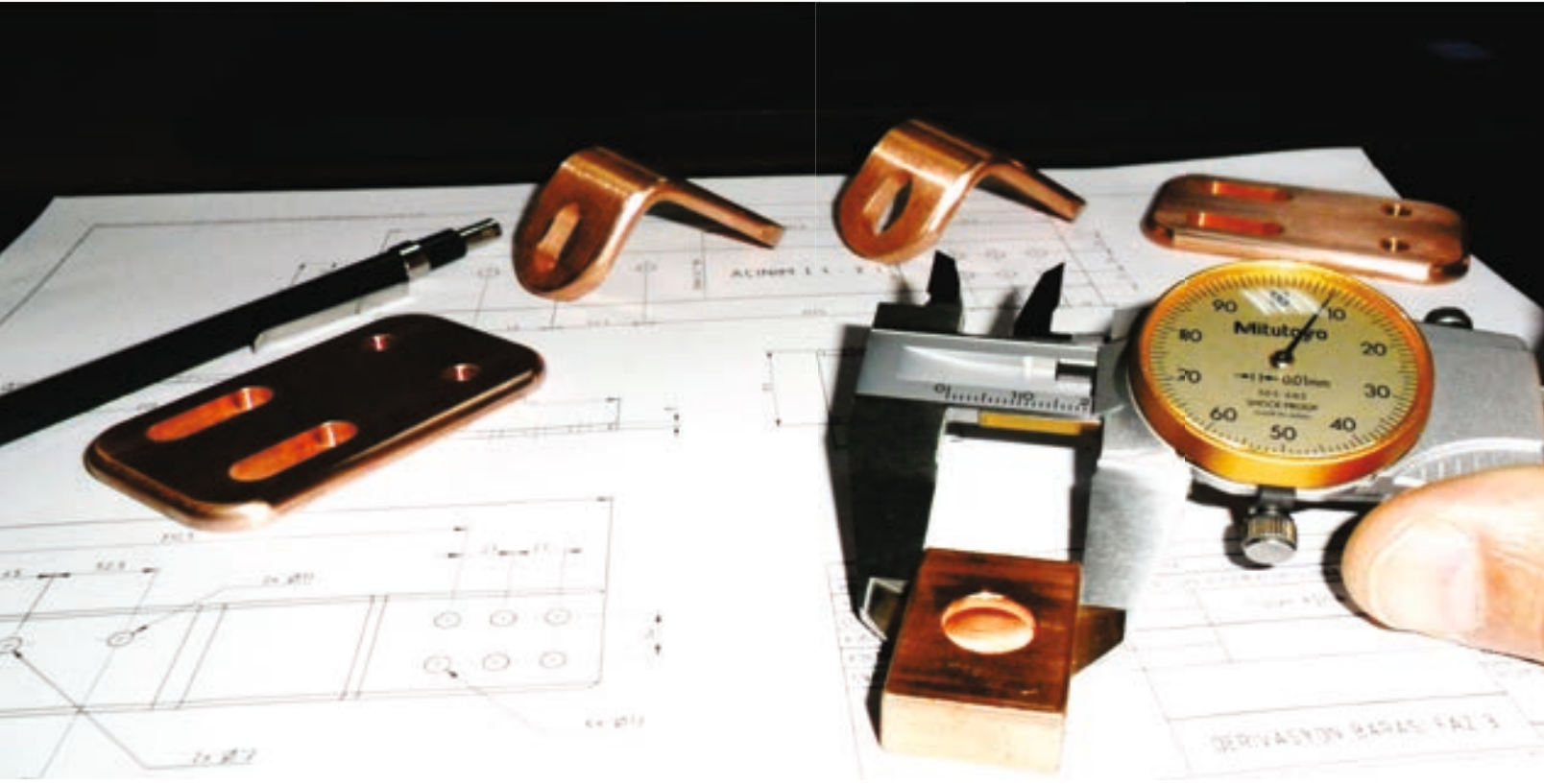
The products are being controlled in every stage of production process. Our aim is to ensure Customer Satisfaction in terms of quality.

Copper busbars are controlled at the stage of procurement with some testes before the process in production line . These quality testes mainly consist of Electrical conductivity , hardness, elongation and surface compliance. After production all products are being measured

### **CUSTOMER BENEFITS**

- Ready to use
- Saving process cost and time
- Zero inventory level
- Prompt delivery









## INSULATED **COPPER** WIRE IN ELECTROMECHANICAL INDUSTRIES





SARMAKİNA offers a wide range of high quality insulated winding wires with different insulation types and compositions according to customer specifications.

Paper insulated winding wires are covered with one or several layers of paper. Paper types that can be used in the insulation process.

These wires are mainly used in transformers, reactors, motors, generators and traction motors.





TYPES OF LAYERS	
SINGLE	
TWIN	
TRIPLLET	
QUADRUPLET	

## NORMATIVE REFERENCES

EN 13601 Copper and copper alloys

IEC 60317-0-2 Specification for particular types of winding wires

IEC 60317-27 Specification for particular types of winding wires

IEC 60554-3-5 Specification for cellulosic papers for electrical purposes

IEC 60851-1 to 6 Winding wires

## PAPER TYPES

Kraft Paper, Thermokraft Paper (Thermally Upgraded), Nomex, Creped, Paper, etc.

## REELS

Steel, wooden or plastic reels can be used in accordance with customer's request.



