TEPLOTECHNA INDUSTRIAL FURNACES LTD.

HOT DIP GALVANIZING FURNACES

LEGIONÁŘSKÁ 1085/8, 779 00 OLOMOUC, CZECH REPUBLIC

www.teplotechna.cz
1950
Founded as a state-owned enterprises

1992
Privatized

2015
TPP became subsidiary of LANIK Ltd (lanik.eu)

Since that time it has developed into a major producer of industrial furnaces in the highly industrialized Czechoslovakia and neighbouring Eastern Block countries.
**About us**
- 160 projects worldwide over last 20 years
- About 20 design engineers
- Subsidiary company of LANIK Ltd
- Long-term contracts with manufacturing and assembly companies
- Quality Management System

**What can we offer?**
- Turn-key projects
- Technical studies, Design consultancy
- Project documentation in Czech, English, German and Russian languages
**Project Management and Implementation**

- **Project management, design, planning**
  Responsibility for all project activities, actions and deliverables

- **Procurement**
  Procurement organization

- **Logistics and transportation**
  Organization of enquiries according to project schedule

- **Construction and assembly works**
  Organization of all construction and erection works

- **Supervision**
  Organizing of all necessary supervision for project

- **Start – up**
  Organizing of all start up activities for project

- **Commissioning**
  Organization of all commissioning activities for project

- **Warranty and customer service**
  Including delivery of necessary spare parts

- **Training**
  Organization of training for customer staff

- **Quality**
  Organizing of inspections in project, production, on site
PRODUCTS

GAS-FIRED FURNACES FOR

1. Hot dip galvanizing
2. Production of ceramics and porcelain
3. Heat treatment of metals
4. Melting and casting of metals
5. Drying of products
6. After burner chamber for harmful substances
HOT DIP GALVANIZING FURNACES

Galvanizing furnaces with ceramic or steel kettle

The galvanizing furnace is delivered to the erection site as preassembled with refractory lining and some elements of the heating system which can save time for installation

Steel kettle is heated by means of flat flame burners installed in side walls. The required uniform heating is achieved by radiation from a hot wall.

Control system Siemens SIMATIC S7 - 300 with profibus technology. The system is connected with automatic phone GSM unit for reporting of failures of the furnace.

Galvanizing kettle from steel with low carbon and silicon content.

Remote control by means of Teamviewer programme is used by putting the new kettle into service and by hot-line service.
Temperature in the zinc bath is held in the range of +/- 2°C

Economic energy consumption and low emission level. The fans of the heating system are controlled in accordance with the requested capacity by means of frequency converter which save of electric energy.

Technical help to our customers by exchange of the kettle, by zinc pumping over into receptacle or reserve kettle. In addition to time saving, costs are eliminated for storing new zinc, filling the kettle and the energy for melting the zinc. No zinc oxide is formed and impurities in the zinc are reduced to a minimum.

Hot-line service during 24 hours
Long life of the kettle
8 up to 10 years

Energy saving

Sufficient capacity even by sectional shutting-down of heating system

Heat exchanger
Higher efficiency of the unit
ELECTRIC HEATING SYSTEM
- Easy control from monitor of PC
- Safety elements
Economical rigid steel structure without necessity its anchoring into foundation

Rigidity ensured up to depth of zinc kettle of 4m

Operating platforms in accordance with the customer wish
High quality heat insulations

Surface temperature of the furnace max. 50°C even in upper part of the kettle
Short assembly period due to delivery of hot zinc galvanizing furnace with all technologic equipment and insulation
SERVICE AND MAINTENANCE

- Remote control by using Teamviewer software
- Hot-line service
- Guarantee for the furnace up to 36 months
TPP is owner of two mobile heated kettles with the total volume of about 170 t of molten zinc, inclusive the pumps for overpumping it by repairs and reconstructions of galvanizing furnaces.
SELECTED REFERENCES

OF HOT DIP GALVANIZING FURNACES AND EQUIPMENT

WIEGEL Höchstadt Feuerverzinken GmbH & Co KG, Germany
Galvanizing furnace with steel kettle 7 x 1,8 x 3,5 m

WIEGEL Graben Feuerverzinken GmbH & Co KG, Germany
Galvanizing furnace with steel kettle 7 x 1,8 x 3,5 m

ELEKTROVOD ŽILINA AS, Slovak Republic
Galvanizing furnace with ceramic pot for galvanizing of connecting material
Galvanizing furnace with steel kettle 9 x 1,4 x 2,3 m
Two-chamber-drying kiln
Dust exhausting plant of the galvanizing furnace

DRÁTOVNY HLOHOVEC AS, (Wire factory) Slovak Republic
Galvanizing furnace with steel pot and drying kiln for wires, technologic line No. 1 - 6 x 1,5 x 1,2 m
Galvanizing furnace with steel pot and drying kiln for wires, technologic line No. 2 - 6 x 1,5 x 1,5 m
Galvanizing furnace with steel pot, drying kiln, two annealing kilns with molten-lead bath

KOVOTVAR KÚTY, PRODUCTION CO-OPERATIVE SOCIETY, Slovak Republic
Two-side galvanizing furnace with ceramic kettle
Galvanizing one-side furnace with ceramic pot / x 1,4 x 1,4 m
Dust exhausting plant and cabin and reconstruction of the drying unit by the galvanizing furnace

ŽDB BOHUMÍN AS, Czech Republic
Galvanizing furnace with steel pot and drying kiln for wires, 6 x 1 x 1 m
SELECTED REFERENCES

OF HOT DIP GALVANIZING FURNACES AND EQUIPMENT

APOLLO METAL Ltd, Factory Čekkov, Czech Republic
Galvanizing furnace with steel kettle 7 x 1.5 x 2.5 m

ZIN Ltd, Hronský Beňadik, Slovak Republic
Galvanizing furnace with steel kettle and one-chamber drying kiln 4.5 x 1.2 x 1.5 m
Dust exhausting plant of the galvanizing furnace

WIEGEL ŽEBRÁK Žárové zinkování Ltd, German owner, Žebrák, Czech Republic
Galvanizing furnace with steel kettle 7 x 1.7 x 2.6 m

EKOZINK PRAGUE, Ltd., KOUŘIM, Czech Republic
Gas furnace for zinc granules melting

NOVÁ HUŤ - TECHNIKA Ltd, Ostrava, Czech Republic
Galvanizing furnace with steel kettle 6 x 1 x 1 m and continuous drying kiln for wire

AGRICULTURE CO-OPERATIVE SOCIETY Hrančář, Loděnice, Czech Republic
Galvanizing furnace with ceramic kettle, inclusive heat exchanger (waste gas/water)
Drying kiln
THANK YOU
FOR YOUR ATTENTION

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