

TEPLOTECHNA PRŮMYSLOVÉ PECE, s.r.o.

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INTRODUCTION OF THE COMPANY









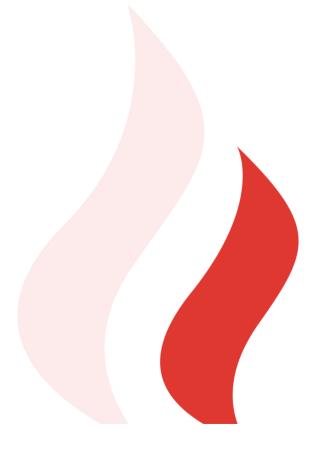


ID No.: 47668253, VAT No.: CZ47668253, OR Regional Court in Ostrava, Section C, Insert 4903

LANIK Group

About us







Basic data

About us

- Experience more than 200 projects completed in 25 years worldwide
- Professionalism 40 employees, 25 designers
- Background long-term contracts with manufacturing plants and assembly companies
- **Reliability** repeated orders from satisfied customers
- Quality quality management system
- Annual turnover EUR 7 million

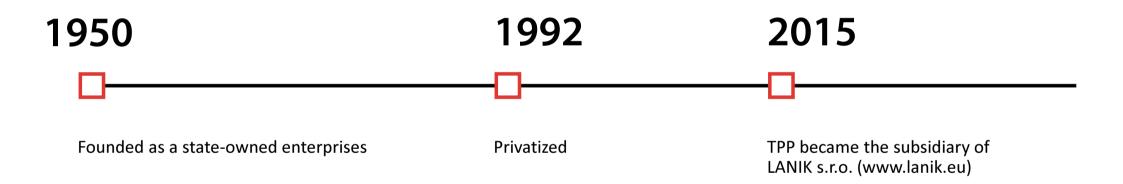
What we offer

- Turnkey projects
- General repairs as well as partial reconstruction of technological units
- Technical and economic feasibility studies
- Thermal balance calculations
- Project documentation in Czech, English, German or Russian language
- Remote control and monitoring for easy technical support



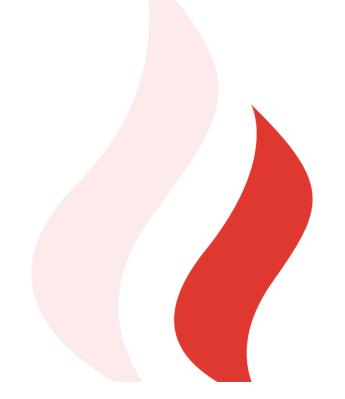


History of the company





➡ What we offer







Our products

Gas-fired or electrically heated furnaces and accessories for:

1 Heat treatment of metals

2 Production of ceramics

3 Hot dip galvanizing

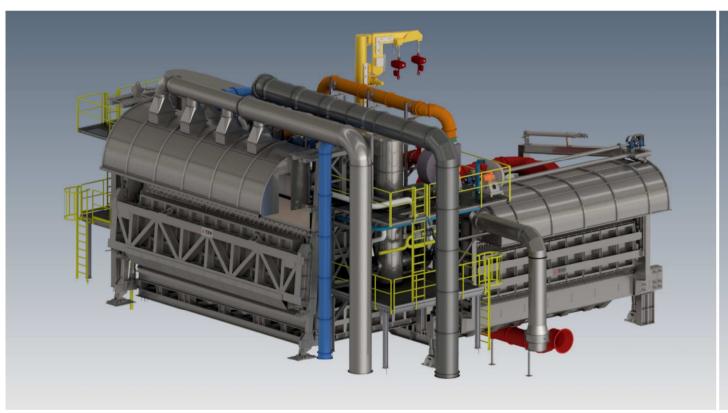
4 Melting and casting of metals

5 Drying of products





Design in Autodesk Inventor

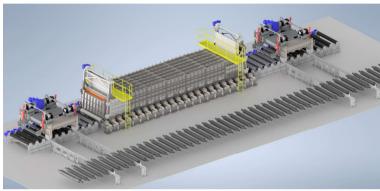








Design in Autodesk Inventor





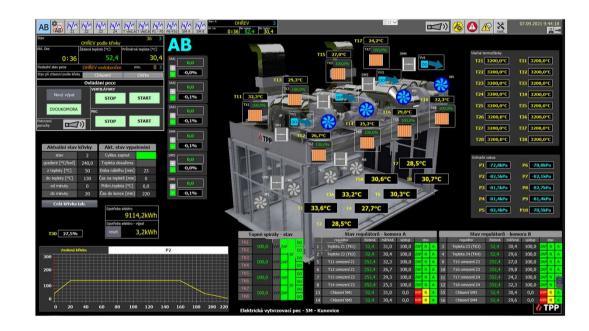






Visualisation of the control software

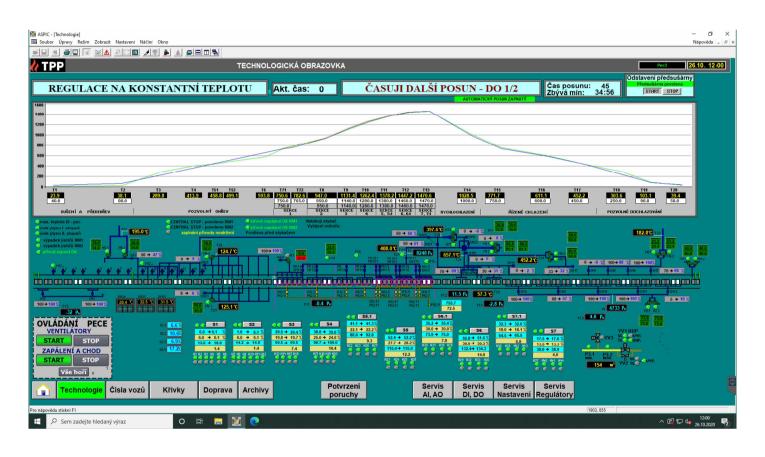
- Siemens Simatic or Allan-Bradley control system
- Control of the furnace and thermal process
- Continuous check of all safety parameters and conditions
- Self-diagnostic of entire control system
- Record of the heat treatment parameters with an option of generate protocols
- Data transfer from the furnace control system to the customer's in-house system







Visualisation of the control software





७ Gas and electric furnaces





Furnace customized according to individual customer requirements

- Chamber, bogie hearth, bell type, continuous, rotary hearth and walking beam types of furnaces
- Heating system: electric, natural gas or blast furnace gas
- Homogenization, tempering, annealing, quenching, preheating
- Possibility to use regenerative or recuperative type of burners
- Temperatures up to 1350 °C, charge weight up to 400 t





Annealing furnaces (4 pcs) 1150 °C, 15 t







Annealing furnace for titanium products 1150 °C, 7 t, according to AMS 2750E

Quenching chamber furnace 1100 °C, 10 t







Electric bogie hearth annealing furnace 1150 °C, 5 t

Bell type annealing furnace 1150 °C, 40 t







Selected references

UNEX a.s., Uničov

AL INVEST Břidličná, a.s.

BOHEMIA RINGS s.r.o., Zámrsk

Bekaert Hlohovec, a.s.

ŽĎAS a.s., Žďár nad Sázavou

Metso Czech Republic, s.r.o.

KRÁLOVOPOLSKÁ KOVÁRNA, s.r.o., Brno Slévárny Třinec, a.s.

Mettis Group, England

Annealing furnaces for heat treatment of large weldments

Reconstruction of a walking beam furnace for heating slabs

2 pcs of heating furnaces 40 t with temperature up to 1250 °C

 4 pcs of bell type annealing furnaces 40 t with temperatures up to 900 and 1150 °C

Bell type annealing furnace 25 t with temperature up to 900 °C

2 pcs of annealing furnaces with lead bath

8 pcs of heating furnaces for preheating castings for forging 1350 °C

4 pcs of annealing furnaces 1150 °C

 5 pcs of quenching and tempering furnaces from 10 to 30 t (with rapid cooling for surface hardening of castings)

4 pcs of annealing furnaces 1150 °C

 Annealing furnace 1150 °C (with rapid cooling for surface hardening of castings)

Annealing furnace for titanium products AMS 2750E





Gas and electric furnaces and dryers according to individual customer requirements

- Chamber, bogie hearth, bell type, continuous or tunnel types of furnaces
- Firing up to 1800 °C, drying up to 300 °C
- Inside lining made from ceramic fiber, blocks, preshaped and monolithic refractories
- High-velocity burners with central recuperator for preheating of combustion air
- Electric heating with air circulation





Bell type furnace for firing special ceramics with inert atmosphere 1150 °C

Bell type furnace for firing technical ceramics 1650 °C







Furnace for firing ceramic rollers 1600 °C

Bogie hearth furnace for firing technical ceramics 1100 °C







Tunnel kiln for firing of dinas and fireclay 1550 °C, 160 m length, consumption: fireclay 3.0 MJ/kg, dinas 4.1 MJ/kg







Dryers







Selected references

BRISK Tábor a.s.

REFRASIL, s.r.o., Trinec

Refratechnik Ceramics GmbH

RMS Košice s.r.o.

SLOVMAG, a.s. Lubeník

SEEIF Ceramic, a.s.

PYROTEK CZ, s.r.o., Blansko

2 pcs of tunnel furnaces 1700 °C

Bogie hearth furnace 1650 °C

Bogie hearth furnace 1800 °C

Bell type furnace 1700 °C

Bell type furnace for magnesite 1800 °C

2 pcs of tunnel furnaces 1550 °C

2 pcs of chamber furnaces 1550 °C

3 pcs of chamber furnaces 1100 °C, 7 t

Bell type furnace 1100 °C, 50 t

Chamber furnace 1550 °C, 5 t

CAPITAL REFRACTORIES s.r.o., Šenov • 5 pcs of bell type and bogie hearth furnaces 1580 °C





Selected references

CARBORUNDUM ELECTRITE a.s.

 Tunnel furnace 1350 °C, bell type furnace 1350 °C, 2 pcs of bogie hearth furnaces 1350 °C, firing of grinding wheels

LANIK s.r.o., Boskovice

 Bell type furnace 3 m³ 1370 °C, bell type furnace 4 m³ 1340 °C, chamber furnaces 1400 °C, roller furnace 1250 °C, firing of ceramic filters and shapes

diamorph hob certec s.r.o., Horní Bříza Chamber furnace 1600 °C, roller length 6.5 m, bell type kiln 1600 °C, roller length 5.5 m, 3 pcs of drying chambers, drying and firing of ceramic rollers

P-D Refractories CZ a.s.

 4 pcs of tunnel furnaces 1550 °C, bogie hearth furnace, drying furnaces all for drying and firing of fireclay shapes

Samri Company Ltd., Korea Pyrotek Dubai, AE Pyrotek Krasnoyarsk, RU

- Bell type furnace 3 m³ 1400 °C, firing of ceramic filters
- Electric bogie hearth furnace 900 °C, 200 kW
- Electric bogie hearth furnace 900 °C, 200 kW



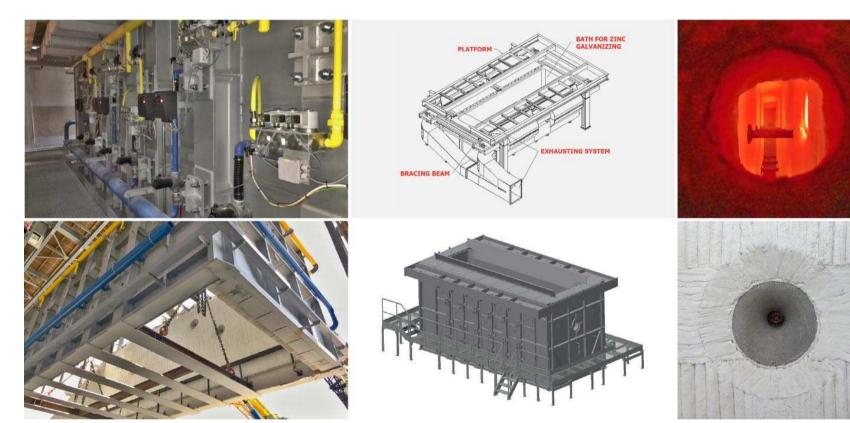


Furnaces for hot dip galvanizing according to individual customer requirements

- Furnaces for continuous or piece material hot dip galvanizing
- Gas, electric heating
- Steel, ceramic galvanizing bath
- Drying furnaces, extraction, heat exchangers
- Bath length up to 20 m



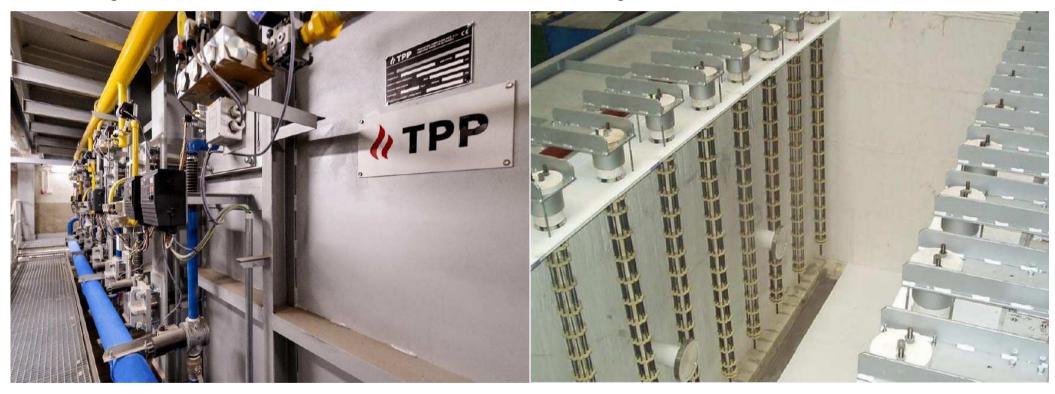








Gas heating from side of the bath 7 × 1.8 × 2.9 m, 14 × 90 kW Electric heating from side of the bath 5,3 × 1 × 1,8 m, 24 × 19 kW

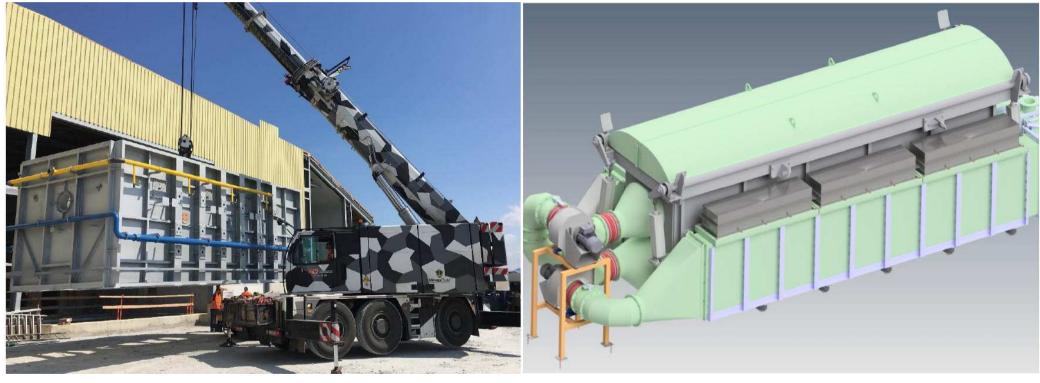






Installation of the furnace 7 x 1,8 x 3,5 m









Selected references

Elektrovod Slovakia s.r.o., Žilina, Slovakia

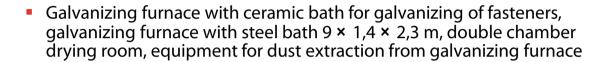
Bekaert Hlohovec, a.s., Slovakia

KOVOTVAR, production cooperative, Kuty, Slovakia

WIEGEL GROUP Graben, Höchstadt, Plankstadt

Großostheim

Eching



- Galvanizing furnace with steel bath 6 × 1,5 × 1,2 m, drying furnace, annealing furnace, galvanizing furnace with steel bath 6 × 1,5 × 1,5 m, drying furnace, annealing furnace
- Double-sided galvanizing furnace with ceramic bath, galvanizing furnace with ceramic bath 7 × 1,4 × 1,4 m, dust extraction equipment, reconstruction of drying unit for galvanizing furnace
- Galvanizing furnace with steel bath 7 × 1,8 × 3,5 m
- Galvanizing furnace with steel bath 7 × 1,8 × 2,9 m
- Galvanizing furnace with steel bath 15,5 × 1,8 × 3,0 m





Selected references

ZIN s.r.o., Hronský Beňadik, Slovakia • Galvanizing furnace with steel bath 4,5 × 1,2 × 1,8 m, drying chamber furnace, extraction from galvanizing furnace

Zemědělské družstvo Hraničář Loděnice

WIEGEL GROUP CZ

Žebrák, Čenkov

Pravčice

Liberty Ostrava a.s.

EKOZINK Praha, s.r.o., Kouřim

ŽDB DRÁTOVNA a.s., Bohumín

 Galvanizing furnace with ceramic bath, heat exchanger, drying furnace

- Galvanizing furnace with steel bath 7 × 1,5 × 2,5 m
- Galvanizing furnace with steel bath 7 × 1,8 × 2,9 m
- Electric galvanizing furnace with steel bath 5,3 × 1 × 1,8 m, drying furnace
- Furnace for melting zinc granules
- Galvanizing furnace with steel bath 6 × 1 × 1 m, drying furnace





Furnaces customized according to individual customer requirements

- Melting, casting and holding furnaces
- Stationary, tilting
- Charge from 5 t up to 60 t
- Gas, electric heating, indirect heating option
- Use of regenerative, flat-flame, high-speed or recuperative burners
- Consumption: 540 kWh/t of molten aluminium at 740 °C, with a weight of 45 t of charge





Melting furnace 18 t

Crucible melting furnace 1 t







Melting furnace 20 t with tilting casting furnace 20 t







Melting furnace 45 t with tilting casting furnace 45 t







Selected references

AL INVEST Břidličná, a.s., Czech Republic

- Melting furnace TLA 9
- Casting furnace TLA 9
- Melting furnace TLA 15

Constellium Extrusions Děčín s.r.o., Czech Republic

- Melting furnace 30 t and 38 t with regenerative burners
- Casting furnace 20 t and 30 t
- Tilting casting furnace 20 t with indirect heating
- Melting and holding furnace 22 t
- Melting and holding furnace 45 t

ŠKODA AUTO a.s., Mladá Boleslav, Czech Republic

Casting furnace FRANCI 2300





Service and support



Consultations and calculations of equipment savings

Prompt service action

Remote access to monitoring or diagnostic

Preventive controls and inspections of the heating system

Reconstruction of heating systems

Supply of spare parts for heating and control systems







Customers





























Customers



























Customers

















Thank you for your attention



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