



PROFESSIONAL PROTECTIVE COATINGS

# RAILWAY TRANSPORT

Plasma System SA is an advanced technology company specializing in the surface engineering and laser technology sector.

**Why is it worth using protective coatings?**

- ✔ **IMPROVE THE PERFORMANCE** parameters of the worn or damaged elements
- ✔ **EXTEND THE DURABILITY** of machinery and equipment parts
- ✔ **LIMIT THE RISK** of emergency downtimes and work interruptions
- ✔ **REDUCE THE COSTS** of ongoing operation and overhauls

**Applied technologies**

## LASER TECHNOLOGIES

- ▶ Hardfacing
- ▶ Hardening
- ▶ Welding
- ▶ Alloying

## THERMAL SPRAYING TECHNOLOGIES

- ▶ Arc
- ▶ Flame
- ▶ Remelting
- ▶ Plasma
- ▶ HVOF
- ▶ nanoHVOF



**Plasma System**

Technology of benefits



# APPLICATIONS



## HARDFACING

- ▶ Pipes
- ▶ Cistern tanks
- ▶ Rollers
- ▶ Wheel treads
- ▶ Power blocks and sections
- ▶ Turnout rails
- ▶ Rails and blocks
- ▶ Arc points

## REGENERATION

- ▶ Tramway axle bearing ends
- ▶ Crane wheels
- ▶ Lathe screws
- ▶ Crankshafts
- ▶ Dynamic stabilizer generator holes
- ▶ Axle ends

## OTHER SERVICES

- ▶ Regeneration of machinery and equipment parts
- ▶ Inner car side surface coatings
- ▶ Steel construction galvanization / cistern tank hardfacing
- ▶ Securing the wheel sets
- ▶ Track bench modernization
- ▶ Spraying the tramway chassis rocker arms (roller bearing holes)
- ▶ Ground wheels
- ▶ Securing the turnout profile
- ▶ Laser welding
- ▶ Crankshaft regeneration
- ▶ Functional coatings

## INTERESTED? CONTACT US

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