



# SPIACT

On the right track



## ABOUT US

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SPIACT SA CRAIOVA is a company operating in the field of railway industrial production, equipment, centralization and remote control, those products, services and works are designed mainly for the railway infrastructure.

### **Short history:**

Along with the expansion of the railway network in Romania, workshops were created in various cities around the country taking care of the repair and maintenance of the installations that concurred to a railway traffic in good conditions.

Thus, a workshop is established in Craiova within the Railway Company Branch, in 1923, which repaired distance signals, manipulators, station automatic machines and other railway equipment. This shop had then 16 workers and would be the nucleus of the future Industrial Production Division.

In 1970, the former repair shop becomes an independent division, and by acquiring new equipment and machinery, it provides the conditions for an activity able to meet the requirements imposed by a modern railway traffic. In cooperation with the Transportation Research and Design Institute of Bucharest, very important products were assimilated: track inductors, electrical point machines, etc.

Since 2004 SPIACT Craiova is one hundred percent private capital romanian company.



# ABOUT US

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Our company structure is:

## I. PRODUCTION DIVISION

- SYSTEMS FOR THE COMMAND, DRIVE AND CONTROL OF TURNOUTS;
- DISTRIBUTION, COMMAND, PROTECTION AND SIGNALLING ELECTRICAL EQUIPMENT FOR RAILWAY INFRASTRUCTURE;
- SINGLE PHASE SEPARATION AND POWER TRANSFORMERS FOR CONTACT LINE;
- INTEGRATED SAFETY SYSTEM FOR RAILWAY LEVEL CROSSING.

## II. WORKS DIVISION :

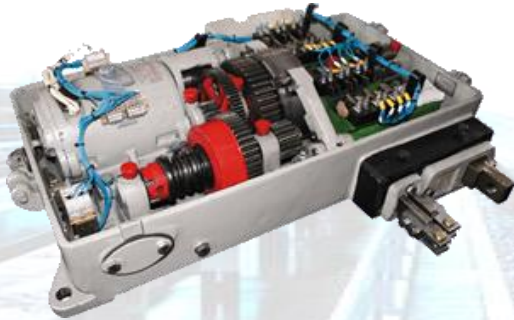
- CONSTRUCTION AND REPAIR WORKS FOR SIGNALING SYSTEM;
- CONSTRUCTION WORKS FOR CONTACT LINE;
- CONSTRUCTION WORKS, CAPITAL REPAIRS AND MODERNIZATION FOR RAILWAY TELECOMMUNICATION;
- CONSTRUCTION WORKS FOR TRAMWAY LINE CATENARY AND ELECTRICAL INSTALLATIONS.

# I. PRODUCTION DIVISION

## SYSTEMS FOR THE COMMAND, DRIVE AND CONTROL OF TURNOUTS

### ❖ POINT MACHINES

- AC motor point machines



- DC motor point machines



### ❖ POINT MACHINE FOR SPHEROLOCK FIXING SYSTEM





# I. PRODUCTION DIVISION

## SYSTEMS FOR THE COMMAND, DRIVE AND CONTROL OF TURNOUTS

### ❖ UNIFIED DERAILER

- Centralized unified derailer



- Non-centralized unified derailer



### ❖ TURNOUT DRIVE ELEMENTS

- Supports for fixing point machines to the sleepers



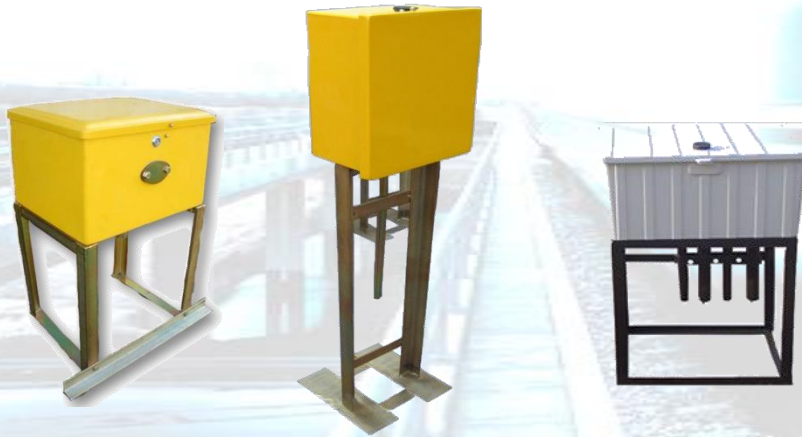
- Adjustable junction bar sets



# I. PRODUCTION DIVISION

## DISTRIBUTION, COMMAND, PROTECTION AND SIGNALLING ELECTRICAL EQUIPMENT FOR RAILWAY INFRASTRUCTURE

### ❖ EQUIPPED/UNEQUIPPED BOXES



### ❖ DISTRIBUTORS



### ❖ TURNOUT HEATERS FUSES



Box for resistance turnout heating

Resistance fastening clip

### ❖ AUTOMATIC STOP PICKET





# I. PRODUCTION DIVISION

DISTRIBUTION, COMMAND, PROTECTION AND SIGNALLING ELECTRICAL EQUIPMENT FOR RAILWAY INFRASTRUCTURE

## ❖ JOINT COILS AND ACCESSORY



# I. PRODUCTION DIVISION

**DISTRIBUTION, COMMAND, PROTECTION AND SIGNALLING ELECTRICAL EQUIPMENT FOR RAILWAY INFRASTRUCTURE**

## ❖ ELECTRICAL FRAMES



## ❖ OUTDOOR EQUIPPED CABINETS





## I. PRODUCTION DIVISION

### SINGLE PHASE SEPARATION TRANSFORMERS AND POWER TRANSFORMERS FOR CONTACT LINE

- Separation transformers 5 kVA 0.23/0.23 kV ;
- Separation transformers 63 kVA, 0.23/0.23 kV ;
- Separation transformers 10 kVA, 0.23/0.23 kV ;
- Separation transformers 100 kVA, 0.23/0.23 kV ;
- Separation transformers 25 kVA, 0.23/0.23 kV ;
- Separation transformers 50 kVA, 0.23/0.23 kV ;
- Transformer for the switch heaters 2 kVA and 4kVA, 0.23/0.23 kV;
- Oil power transformer 5 kVA, 25/0.23 kV
- Oil power transformer 10 kVA, 25/0.23 kV
- Oil power transformer 25 kVA, 25/0.23 kV
- Oil power transformer 50 kVA, 25/0.23 kV
- Oil power transformer 63 kVA, 25/0.23 kV
- Oil power transformer 100 kVA, 25/0.23 kV.



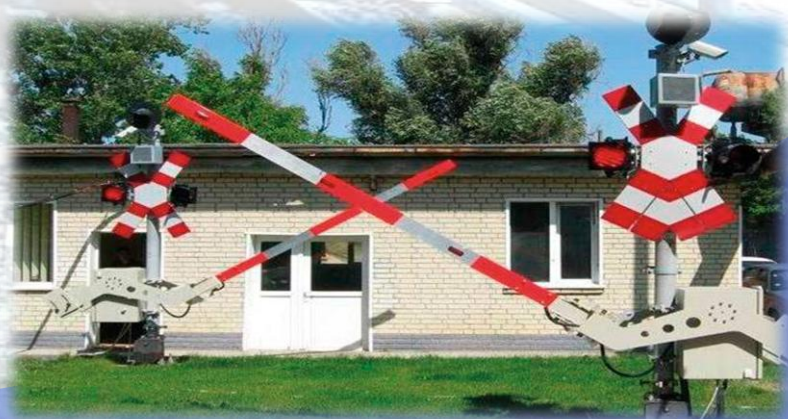
# I. PRODUCTION DIVISION

•DISTRIBUTION, COMMAND, PROTECTION AND SIGNALLING ELECTRICAL EQUIPMENT FOR RAILWAY INFRASTRUCTURE

## •INTEGRATED SAFETY SYSTEM FOR RAILWAY LEVEL CROSSING

Structure of system:

- signaling and warning mechanical assembly (two half-barriers);
- rail type level crossing warning equipment;
- half-barrier drive barrier machine equipped with signaling and drive equipment;
- junction box for electrical connections;
- upgraded level crossing command cabinet;
- obstacle detection device;
- power supply system (powered by unconventional sources including photo voltaic panels).





## II. WORKS DIVISION

### CONSTRUCTION AND REPAIR WORKS FOR SIGNALING SYSTEM

#### ▪ RELAY INTERLOCKING WORKS

- rebuild signal cabinets;
- repairs and replacement of cables;
- repairs and replacement of point-machines in railway stations;
- repairs and replacement of signals;
- repairs and replacement of equipment (boxes, pickets, etc).

#### ▪ ELECTROMECHANICAL INTERLOCKING WORKS

- repairs and replacement of mechanical switches;
- repairs and replacement of level-crossings;
- repairs and replacement of mechanical signals.



## II. WORKS DIVISION

### CONSTRUCTION WORKS FOR CONTACT LINE

#### A. REPAIRS WORKS

- Anchor interchanges without / with sectioning;
- Neutral Zone; Insulating sectioning;
- Aerial Ace;
- Contact line in artwork; Severing separators, actuators and CDS installations;
- Insulators; compensators;
- Catenary outside junctions and works of art;
- Tubular Surge;
- Plant protection path and neighborhood;
- Protection panels; Cable networks.

#### B. ASSEMBLY - CONSTRUCTION AND MODERNIZATION WORKS

- Pillars and foundations
- Installations supporting catenary
- Works on the catenary
- Siting parts, conductors and insulators
- Siting dividers sectioning and actuators
- Construction and assembly works for installation protection and route path neighborhood





## II. WORKS DIVISION

### CONSTRUCTION WORKS, CAPITAL REPAIRS AND MODERNIZATION FOR RAILWAY TELECOMMUNICATION;

#### 1. DISMOUNTING COMPONENTS FOR INSTALLATIONS

- Airlines and airline arrivals;
- Telecommunications equipment;
- Installations for the notification / information to the traveling public;
- Installations for fiber optics cables;
- Computing facilities;
- Power supply installations;
- Installation of earthing;
- Protection of telecommunication lines;
- Wires interior installations;
- Installation of surveillance / video, duplex intercom and access control system

#### 2. CHECKS, ADJUSTMENTS, STATIC FUNCTIONAL TESTS

#### 3. CORRECTING DEFICIENCIES IDENTIFIED FUNCTIONAL



## II. WORKS DIVISION

### CONSTRUCTION WORKS FOR TRAMWAY LINE CATENARY AND ELECTRICAL INSTALLATIONS

- Installation of wooden or concrete pillars;
- Installation fittings on poles;
- Installation conductors on overhead lines;
- Laying cables;
- Installation terminal boxes;
- Installation distribution panels;
- Installation of electrical sockets;
- Installation of electric light and buzzer;
- Installation of lighting;
- Capital repairs installations DC;
- Laying electrical conduits mounted inside and outside the buildings;
- Construction, assembly and repair of power transformers.





## PRODUCTS:

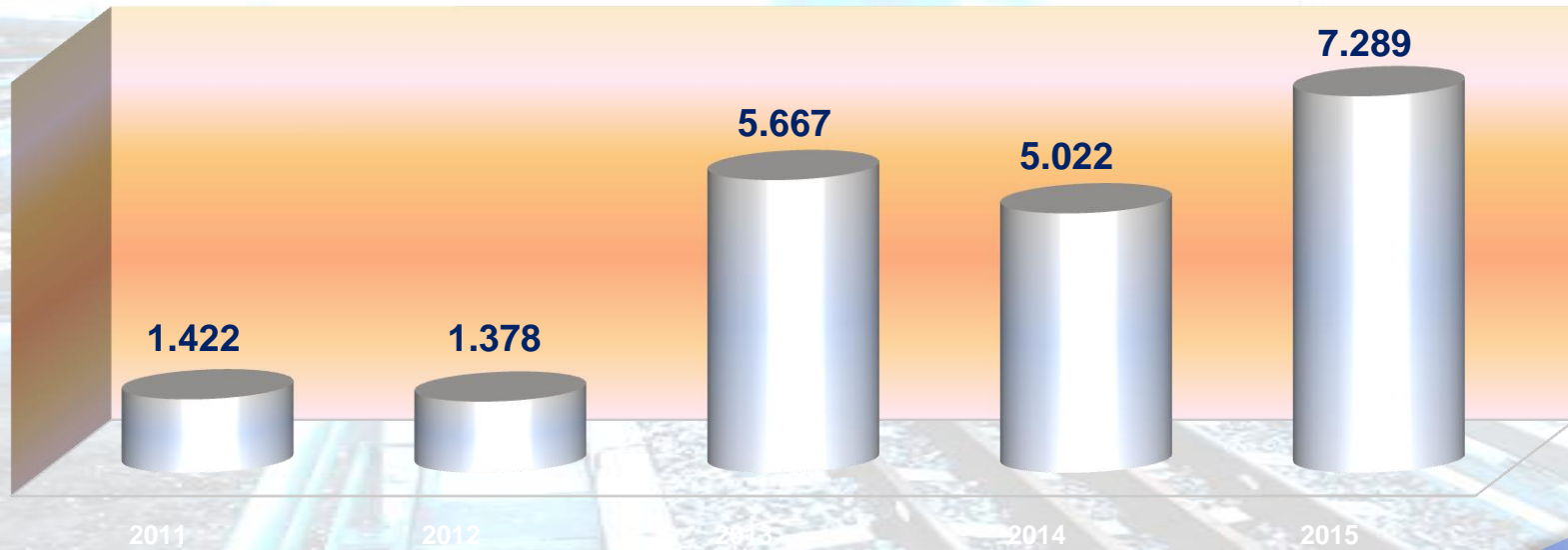
- RAILWAY INFRASTRUCTURE MANAGER (CNCFR) BUCHAREST
- IMSAT GROUP SNEF BUCHAREST
- SIEMENS AUSTRIA
- SIEMENS ROMANIA
- ALSTOM TRANSPORT ROMANIA
- ANSALDO SIGNALLMENTO FERROVIARIO ITALY
- THALES SYSTEMS ROMANIA
- COLAS RAIL ISAF BUCHAREST

## WORKS:

- RAILWAY BRANCH CRAIOVA
- METABET PITESTI
- MARTIN ROSE ROMANIA (TRAM LINE)
- SIEMENS (ERTMS II –PILOT STATION)

# TURNOVER EVOLUTION 2011-2015

CURRENCY: THOUSAND €





## CEEX Projects with research funding

- 1 VISCET - research on the accomplishment of an intelligent railway vehicle for safe, comfortable and efficient transport of passengers

Partnership: - University of Craiova  
- SPIACT Craiova  
- AGIR



## Projects with PHARE funding

- 2 Employee training program in to ISO: Standard requirements – ISO 9001, Environment standards – 14001, Health and occupational security standards - 18001

Partnership: - SPIACT Craiova  
- TÜV Carpat RO



- 3 IT and English Courses

Partnership: - SPIACT Craiova  
- University of Craiova  
- ELPRECO

## POS-CCE 2007-2013

- 4 Integrated Automatic System of improvement of safety road and rail traffic by modernization of level crossings

Partnership: - SPIACT Craiova  
- ICMET Craiova



## Presence in trade shows and trade fairs

**INFRATRANS 2005 – 2007, 2009**

**Expo-Conference Railways Club 2007-2016**

**INNOTRANS BERLIN 2008, 2010, 2012, 2014, 2016**

**Scientific papers  
and articles**

**Club FERVIAR**

**Member of the Romanian Railway Industry Association**



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