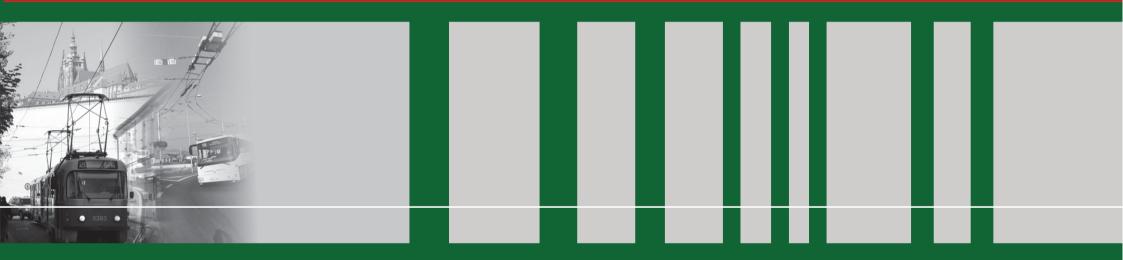
# **REFERENCES**



Selected Company References





Hungary country city

Budapest

period 2014

troley-bus OCL

contractor

scope

TEN-T (final client: BKV)

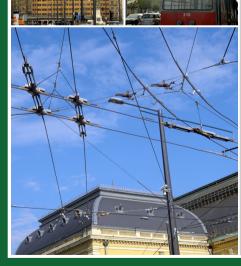
description

Delivery of TBUS OCL material for trolleybus track e.g. cantilevers, section insulators, curve clamps, crossings, etc. We also supervised the assembly of thus line.

















contractor

period scope Italy

La Spezia

2014

troley-bus OCL

final client: ATC La Spezia

**description** Dismantle of current cantilevers and delivery and installation of new cantilevers incl. suspended

OCL material for trolleybus track.



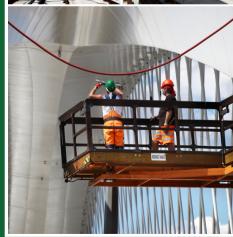












country

Czech Republic

city Prague period 2014

scopetramway OCLcontractorSTRABAG a.s.

description

We was responsible for delivery and installation of OCL poles as well as for delivery and assembly of overhead contact line on the bridge and at the surrounding area. We also made special preparation work for the priority of the tram vehicles.















period scope contractor

description



Czech Republic

Pilsen

2013 - 2014

troley-bus OCL and signalling

Plze ské m stské dopravní podniky a.s.

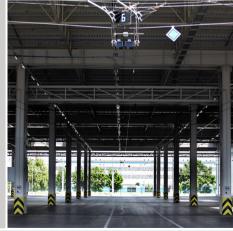
We carried out delivery and installation of overhead contact systems for new trolleybus depot, as well as delivery and installation of automatic system for switches operation (VETRA) including all related software and computer for dispatching room. The project include e.g.:

- 26 sets of electric switches
- 26 sets of mechanical switches
- 102 pcs of section insulators
- 44 pcs of disconnectors

"Our company was pleased and fully satisfied with quality level of executed works as well as with the professional team involved in this project. Taking into consideration the above mentioned we would like to recommend Elektroline a.s. as an excellent option for executing of the OCL systems work".















contractor

city Lyon
period 2012 - 2014
scope troley-bus O

troley-bus OCL

France

Cegelec SAS Mobility Lyon (final client: SYTRAL)

**description** We partly delivered material for the track and completely assembly of tbus track C13 in Lyon.

Due to very high trafic and important lines and rotes in direction of Lyon airport in this part of Lyon whole track was totally assembled at night hours.













period

scope

contractor

description

Italy

Cagliari

2011 - 2014

tramway OCL

FABIANI SPA, Via Fra Galgario, 13,24044

Dalmine (BG)

Delivery of material and assembly of new double track TRAM line which is placed on the 2km-long viaduct. We also made a connection with the substation and partly adjustment at nerby depot.







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city Wa

period

scope contractor

description

Poland

Warsaw

1999 - 2014

tramway OCL and signalling

KROMISS-BIS Sp. z o.o.

Elektroline was responsible for delivery of TRAM OCL material and signaling components for the Warszawa city. We supplied especially following products:

- TMPK and TSC control systems (more than 200 pcs)
- signaling lamps
- sleeves and pole fastening
- supporting and tensioning equipment
- section insulators and OCL insulators
- GRP cantilevers and their components
- contact wire clamps
- tensioning mechanism and weights
- disconnectors
- suspensions and various OCL holders













period scope

contractor

description



Czech Republic

Prague

1992 - 2014

tramway OCL and signalling

Dopravní podnik hl. m. Prahy

More than 20 years cooperation (assembly & installations, material delivery and regular maintainance of our signaling devices, electro-revisions) with Prague Transport Authority. We have delivered and installed e.g.: SIGNALING:

- Automatic control system for switches (more than 220 pcs)
- Automatic heating system for switchpoints OCL SYSTEMS:
- TRAM section insulators
- TRAM disconnectors
- **GRP** cantilevers
- Components for cantilevers
- contact wire clamps
- tensioning mechanism







# P







country Czech Republic

city Pilsen period 2013

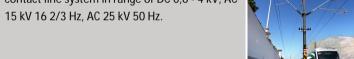
scope railway OCL

**contractor** Edikt a.s. (final client: Škoda

Transportation)

**description** Elektroline Inc. was responsible for designing,

delivery and assembly of overhead contact line system (ARCAS-EL) incl. technology for detection and signalization of traction voltage level in contact line system in range of DC 0,6 - 4 kV, AC















Netherlands

Rotterdam

2013

period scope

tramway OCL

contractor

StruktonRail commisioned by Gemeentewerken Rotterdam and

Rotterdamse Elektrische Tram

description

Delivery of OCL material for tramway track.





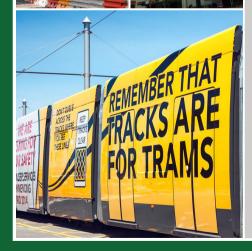












country

Australia

city Gold Coast
period 2012 - 2013
scope tramway OCL

**contractor** Balfour Beatty Rail Australia, Project manager: Mr. David McCulloch

**description** Delivery of the complete system of over head contact line material for 13km light trail track.













country city period

Poznan 2012 - 2013

Poland

**scope** tramway signalling

PSI Poznan (final contractor: MPK

Poznan)

description

contractor

In this project we are/were responsible for these deliveries and installations:

- Automatic control system of depot
- software & visualization for movement of vehicles within the depot
- 42 pcs of electro-hydraulic point machines
- 39 pcs of mechanical point machines
- 95 pcs of resonant track circuits
- other material and equipment: tram detection elements, signaling lamps, etc.











period

scope

contractor



Netherlands

Rotterdam

2012 - 2013

tramway OCL

StruktonRail commisioned by

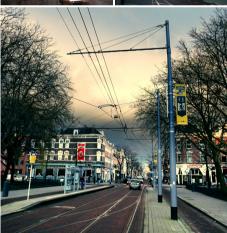
Gemeentewerken Rotterdam and Rotterdamse Elektrische Tram

description

Delivery of OCL material for tramway track and public lightning

















# country

Czech Republic

**city** Pilsen

**period** 2011 - 2013

scope railway OCL

**contractor** Skanska Inc. (final client: Railway

Infrastructure Administration, state

organisation (RIA))

**description** Elektroline Inc. was responsible for delivery and

assembly of railway overhead contact line

system (ARCAS-EL).











**country** Norway

city Bergen period 2012

scopetramway OCLcontractorBybanen AS

**description** Delivery of OCL material and adjustment of 10

kms lightrailtrack. Especially reparation and contact wire stagger adjustment of lightrail track

(10kms) in tunnel.











# OCL repair of I







**country** Belgium

city Ghent period 2012

scopetramway signallingcontractorDe Lijn Oost Vlaanderen

description

Description of responsibilities:

- SIL3 signaling system for tramway level crossing
- SIL3/SIL2 resonant track circuits











period

scope

contractor

Sweden

Gothenburg

2012

tramway OCL

GS Sparvagn, Mr. Dennis Sköldborg

description Delivery of OCL material for tram line.















period

scope

contractor



Palermo

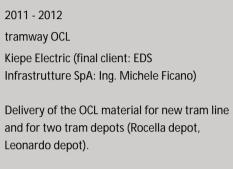
2011 - 2012

tramway OCL

Kiepe Electric (final client: EDS

description

Leonardo depot).

















period

scope

Bulgaria

Vidin

2009 - 2012

railway OCL

FCC Construccion S.A.

description

contractor

Delivery and installation of electrical and OCL equipment including ARCAS system (15 km). Our main responsibility in the project is to build complete over-head contact line for rail traffic, illumination of railway stations & nearby road overpasses and traction substation 27,5 kV.

Danube Bridge and Adjoining Infrastructure Project is very significant rail-route construction in region of Eastern Europe. This bridge will become new transit connection between Bulgaria (Vidin) and Romania (Calafat). Until now it was not possible to cross the Danube River another way than by the ferry or hundreds kilometers far away bridges. It will be changed within several months. The importance of the bridge also consists in that matter it connects rail as well as road traffic. Our main responsibility in the project is to build complete over-head contact line for rail traffic, illumination of railway stations and traction substation 27,5 kV. We are very glad we can be part of such a project.















country

city

period

Italy

Cagliari

2011

tramway OCL scope contractor

ARST spa

description

Supply and assembly of OCL material for electrical traction, for extension of existing power supply line to other tracks where the trams pass, in the area of depot and maintenance workshop, situated inside the location of Operation Head Office of Metro Cagliari in Monserrato.















scope

Australia

Melbourne

period

2011

tramway signalling

contractor

Yarra Trams, contact person: Mr.

Massoud Majidi

description

Delivery and installation:

- Delivery of fail-safe track circuits BRC for detecting presence of a tram within tram stops
- Including GSM communication module for remote diagnostics of the system















description

period

Milan 2011 tramway signalling

Italy

scope tr

Azienda Transporti Milanesi S.p.A.

Delivery and installation:

- Automatic control system of entrance to the depot
- Point machine (electro-hydraulic)
- Resonant track circuits BRC (SIL 2 safety assessed)















country city period

description

scope

Germany
Weinheim
2011

tramway OCL

**contractor** Rhein-Neckar-Verkehr GmbH

Delivery of material for tram catenary track:

- GRP cantilevers
- components for cantilevers and other OCL material
- insulators















country

period scope

contractor

description

C Turkey

Gaziantep

2010 - 2011

tramway signalling

E+M Elektrik Sistem Hizmetleri Ltd. Sti;

Delivery and installation of signaling systems and components:

- semi-automatic depot control system
- VETRA tram-to-way side communication system
- tram priority system
- point machines (electro-hydraulic and mechanical)

















2009 - 2011

tramway signalling

**BAM Nuttall** 

Delivery and installation:

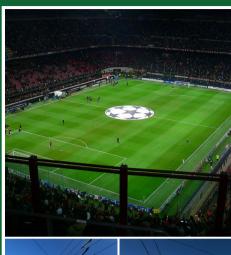
- Switch point control systems TSC (SIL 3)
- Point machines (electro-hydraulic and mechanical)
- Radio communication system (VETRA communciation)
- Preference of trams at junctions (VETRA communication)











country city period

scope

Italy

Milan

2010

troley-bus OCL

description

contractor

ATM Milano - Azienda Trasporti Milanesi

Delivery and assembly of TBUSxTRAM crossings and OCL and OCL material and of TBUS electrical (2 sets) and mechanical switches (2 sets) - Piazza Bottini















contractor

description

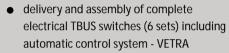
Czech Republic

Plzen

2009 - 2010

troley-bus OCL

Plze ské m stské dopravní podniky, a.s.



- delivery and assembly of complete mechanical TBUS switches (5 sets)
- delivery and installation of 3 sets of TBUS x TBUS crossings
- other OCL material



















description

period

scope contractor

Austria

Salzburg

2009

troley-bus OCL

SLB Salzburger Lokalbahn

Delivery and installation:

- Delivery of electrical and mechanical switches for trolley-bus track
- Delivery of TBUS x TRAIN crossing where the vehicles can passage through with current in both ways (both trolley-bus as well as train)













Greece country city

Athens

period 2008 - 2009

scope troley-bus OCL and signalling

ELPAP

description

contractor

Deliveries and supervising of components and technologies for trolley-bus track, namely:

- VETRA system inteligent automatic setting of vehicle's itinerary while passing the city (vehicle's itinerary is automaticly performed until terminus arrival)
- 50 complete sets of electrical switches
- 60 complete sets of mechanical switches
- 60 complete sets of thus crossings
- on board equipment of 366 vehicles by VETRA system
- other OCL and fitting material







