Company presentation

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www.atx.c.cz
Atx - Automotion

Basic Information

> Private Czech company

Atx - Automotion

> Providing industrial automation

Supplying "turn-key" automation - analysis, design of optimal solution, software development, manufacturing of control cabinets, assembly, adjustment and commissioning of electrical devices and control systems for industrial automation, including visualization and database systems.

> History from 1991 in Žďár nad Sázavou

Branches in Žďár nad Sázavou and Prague

> Employing specialists in the field

In the first years of its existence, the company was specializing in automation of machines and smaller lines (sawing, woodworking machines, etc.). Since then, with the progressive atx development, the supply for metal and metallurgical industry has increased all over Europe. Currently Atx is a specialist in complete automation which includes, but is not limited to - painting lines for car industry, single and multipurpose production and test machines, appliances for metallurgical industry and for other branches.

> Quality

The basic company philosophy is maximum customer satisfaction according to the best quality of our products. This philosophy combined with ideal ratio of quality to price helped Atx to enter and to become established in markets such as the German market famous for its high quality requests.
complex automation
system integration

> new, reconstructed, production machines and lines

demand > offer processing

engineering

PLC software development

I/O definition

project management

control system specification

HMI set up

assembly, commissioning

customer service

technical support

satisfied customer
Following the market demand we elaborate an offer for a complex automation solution of new, refurbished or modernized lines and machines. Our offer includes detailed technical solution, price calculation and graphics processing.

We work out studies and system analysis for new, refurbished or modernized lines and machines. We suggest an optimal solution of automation, appropriate control systems and operating mode of the whole electrical equipment.
Complete project documentation is prepared in a required language in accordance with the Czech, DIN and European standards.

The experience of our engineers with the CAD/CAE systems allows us to meet the customer's needs.

**Our Offer**

**Engineering**

- Electrical engineering
  - Weichers & Partner Eplan
  - Autotec Ruplan
  - Autodesk AutoCAD

- CadSoft Eagle
- Cadence OrCAD

**Documentation & Manuals**

- Multilanguage versions according to customer's needs
our offer
software development

commonly used control systems:

**SIEMENS** (Simatic S7, S5)
**ALLEN-BRADLEY** (SLC 500, ControlLogiX, GuardLogix)
**BERGHOF** Dialog Controller (Dc10xx)
**MITSUBISHI** Melsec (FX, A, Q)
**GE FANUC** (Series 90-70, PACSystems RX7i, VersaMax)
**JETTER** (JetControl 24x, JetControl 3xx)
**Schneider** (Modicon Premium)
**Wago** (I/O - System 750/753)

software development for control systems including testing of all applications

**Software development for control systems**

- Siemens STEP7, STEP5
- B&R PG2000, Automation Studio
- Rockwell RSLogix 500, 5000
- Mitsubishi GX IEC Developer
- GE Fanuc Logic Master
- GE Fanuc Cimplicity Machine Edition
- CoDeSys V2.3.x.x
- JetSym (ST, STX)
- Unity Pro XL

visualization:

- Siemens ProTool 6.0
- Siemens WinCC 6.2, 7.0
- GE Fanuc Cimplicity PE6.5, 8.1, 8.5 Cimplicity Tracker
- InTouch 7.11, 8.0
- Copa-Data Zenon 6.50
- LabView 8
- LabWindows
- Control Web 5, 6
- Control Panel
- Integra Designer
- Dürr EcoEMOS

high-level systems:

- **Oracle**
- **MS-SQL, MY-SQL**
- **Visual Basic**
- **C/C++**
- **Java**
- **Delphi**
- **C#**
- **CIMPICLITY TRACKER**
how to find us
& company development

Zdar nad Sazavou

Nová 486, Zdar nad Sazavou
59101 Czech Republic
phone +420 561 205 963
our offer

manufacturing, assembly, service

We provide electrical installation, manufacturing and assembly of control cabinets and control desks, commissioning and adjustment of the whole electrical equipment. We ensure test operation and staff training. The manufactured equipment is subjected to the appropriate revision. The company is properly qualified for all these activities by ITI.

We provide regular service and maintenance during the warranty period as well as the post warranty service e.g. based on the service contract.

marketing

We perform regular market research through our home and foreign contacts to supply the latest industrial automation for our customers.
customers

> car industry
  painting, welding, assembly lines
  conveyor system
  control of paintshop’s process systems

> machinery industry
  production and testing machines and lines
  single and multipurpose machines
  welding, pressing, packing machines and lines
  wood and stone-cutting sawing machines

> metallurgy
  rolling mills
  continuous casting
  furnaces
  forming machines

> food processing lines
  ecology appliances
  sewerage plant
  chemical works

> others
  smart buildings
  automatic garages
  pumping stations of mining water
  heat engineering
references
auto mobile industry - overview

> painting lines

2013: BMW Leipzig, Germany
2012: Daimler Kecskmet, Hungary
2011: VW Wolfsburg, Germany
      VW Bratislava, Slovakia
2010: Audi Ingolstadt, Germany
      Daimler Wörth, Germany
2009: Daimler Wörth, Germany
2008: GM, St. Petersburg, Russia

> assembly lines

2014: Hella Mohelnice Czech Republic
      COMAU Torino, Italy
2012: Skoda Mlada Boleslav, Czech Republic
2011: VW Bratislava, Slovakia
2008: Ford, St. Petersburg, Russia
      Fiat, Tychy, Poland
2007: ZMA, Naberezhnye Chelny, Russia

> body shop

2012: VW Nizhny Novgorod, Russia
      BMW Oxford, Great Britain
      Fiat Kragujevac, Serbia
2011: Skoda Mlada Boleslav, Czech Republic
2010: VW Pune, India

> single and multi-purpose machines

2014: COMAU Deutschland, Germany
2012: Sasit Zwickau, Germany
2010: Ideal Automotive, Bor u Tachova, Czech Rep.
2007: TOS, Celakovice, Czech Republic
      Siemens VDO, Trutnov, Czech Republic
      Rodos Kovo, Velke Mezirici, Czech Rep.
**Reference**

**Car Industry**

**Welding Shop, VW Nizhny Novgorod, Russia**

*description:* robots commissioning and programming on 6 welding lines at the GAZ plant for the doors and bonnets production of the Škoda YETI, Volkswagen JETA and Škoda Octavia cars

*delivery:* profibus configuration, robots commissioning and programming

*technical means:* Simatic manager, Festo SW(WinSPAS)

**Welding Shop, BMW Mini Oxford, Great Britain**

*description:* transfer of 4 welding lines from Oxford to Swindon

*delivery:* changes of documentation, disassembly in Oxford and commissioning of 4 welding lines in Swindon

*technical means:* programming KUKA robots, PLC Siemens

**Welding Shop, Fiat Kragujevac, Serbia**

*description:* electrical circuits for Project FIAT 330 Serbia doors front/back, left/right

*delivery:* PLC software development, software development for robot COMAU, software, commissioning

*technical means:* WinC5G, control system Siemens, Profinet, SICK

**Final Assembly, Škoda Mladá Boleslav, Czech Republic**

*description:* complete delivery of the electrical part in order to extend the conveyor technology and adjust it to the nw Škoda type. The scope of delivery includes vehicle transport using the EMS trolleys

*delivery:* documentation, PLC and visualisation development, manufacturing of control cabinets and panels, interface for higher level, assembly, commissioning

*technical means:* EPLAN, GE Fanuc/AEG Modicon control system, Profinbus/Modbus communication, Quick View

**Paint and Welding, Daimler Kecskemét, Hungary**

*description:* skid conveyor technology and high rack body stacker

*delivery:* RUPLAN documentation, PLC and PC software development, manufacturing of control cabinets, elektroinstallation, commissioning, supervision during production
2011

Paintshop, VW Bratislava, Slovakia

description: new paintshop, intended for painting of the small cars New Small Family (NSF)
delivery: documentation, manufacturing of control cabinets and control panels, software development PLC, interface for ZLT, visualisation, assembly, commissioning
technical means: control system Simatic S7-300, Siemens ET200S, Profinet, EPLAN, control panel B+R PP320, SEW, RFID Siemens

Paintshop, VW Wolfsburg, Germany

description: reconstruction of 4 lines with 96 painting robots including the conveyor technology
delivery: documentation, manufacturing of control cabinets and control panels, software PLC development, visualisation, assembly, commissioning
technical means: Eplan P8, Simatic S7-400 control system, Siemens ET200S, Profinet, SICK devices, SEW

Final Assembly, VW Bratislava, Slovakia

description: complete delivery of the electrical part for the conveyor technology, the scope of delivery includes transport of assembled parts and full vehicles
delivery: documentation, PLC and visualisation software development, manufacturing of control cabinets and control panels, interface for superior levels, assembly, commissioning
technical means: EPLAN, Simatic S7 – 300 control system, ET200S, Profinet communication, Siemens MP377

2010

Paintshop, Audi Ingolstadt, Germany

description: optimization of body cleaning before entering the Füller painting line
delivery: project documentation in EPLAN P8, software development, visualisation, control cabinet manufacturing, disassembly of the old equipment, assembly, elektroinstallation, commissioning, supervision during production
technical means: Simatic Step7 – Standard Audi, InTouch

Paintshop, Daimler Wörth, Germany

description: exchange of elevators including other conveying techniques in Trockner Decklack 2, supply of new control cabinets, adjusting current control cabinets
delivery: project documentation in RUPLAN, software development, visualisation, manufacturing of control cabinets, disassembly of the old equipment, assembly, elektroinstallation, commissioning, supervision during production
technical means: Simatic Step7 – Standard
2008

**Final Assembly Shop, Fiat, Tychy, Poland**

*description*: new conveyor device of final assembly shop, destined for assembly of Fiat 500 and Ford Ka cars  
*delivery*: electrical installation, project documentation, manufacturing of cabinets, software development, visualisation, communication with superior level, assembly, commissioning, supervision during production  
*technical means*: control system SIMATIC S7-400, distributed units Siemens ET200S, Proibus DP, Ethernet, operator panels OP177B, frequency inverters SEW Eurodrive (Movidrive, Movimot, Movifit), laser barriers SICK,

2007

**Paintshop of car bodies, Fiat, Tychy, Poland**

*description*: new process and conveyor device in paintshop, destined for painting of Fiat 500, Fiat Panda and Ford Ka cars  
*delivery*: electrical installation, changes in project documentation, software development, visualisation, communication with superior level, assembly, commissioning, supervision during production  
*technical means*: control system SIMATIC S7-400, distributed units Siemens ET200S, Proibus DP, ASI-bus, Ethernet, operator panels ESA (505, 555W), frequency inverters SEW Eurodrive (Movidrive, Movimot, Movifit),

2006

**Paintshop for plastic parts, Plastal, Spain**

*description*: modernization of process system of paintshop for plastic car parts (exchange of air recirculation unit, new equipment for fresh air unit and new RTO). The realization was done in three plants of Plastal company in Barcelona, Tudela and Valencia  
*delivery*: complete electrical installation incl. dismantling of old equipment and modifications of existing cabinets, software development for PLC, visualisation, commissioning  
*technical means*: control system SIMATIC S7-300, STEP S5, STEP S7, ET200S, regulators KS98, control panels OP170B, frequency inverters Mitsubishi, WinCC, InTouch

**Final Assembly Line, KIA Motors, Zilina, Slovakia**

*description*: complete delivery of electrical part for conveyor technique - transport of assembled parts and completed cars, delivery of process technique for washing booth of "Water Test" and stacker crane of "Wiring Auto Storage"  
*delivery*: project documentation, manufacturing of cabinets and control desks, software development for PLC, interface for superior MES level, visualisation, assembly, commissioning  
*technical means*: EPLAN, control system SIMATIC S7-400, ET200S, communication bus ProfiSAFE, operator panels Siemens TP270+PP17II, frequency inverters SEW,

... see more on www.atx.cz
**Welding Shop, Daimler Wörth, Germany**

*Description:* commissioning of conveyor technique and workplaces in the "Finish" field

*Delivery:* commissioning (PLC and visualisation)

*Technical means:* Simatic Step7 – Standard Integra, visualisation InTouch, Profinet, RFID readers Siemens Moby-

**Welding Shop, Audi Neckarsulm, Germany**

*Description:* electrical part for conveyor technique and technology for hardening oven

*Delivery:* software development for PLC, visualisation, electrical installation, commissioning

*Technical means:* Simatic Step7, visualisation WinCC, Profinet, frequency inverters SEW – Movidrive B and Movifit

**Welding Shop, GM Opel Gliwice, Poland**

*Description:* electrical part for conveyor technique and EMS (Electric Monorail System) - transport of welded parts between welding cells for car body assembly in new global standard of GM

*Delivery:* project documentation, software development for PLC, visualisation, electrical installation, commissioning

*Technical means:* EPLAN P8, Amphenol and Woodhead components, control system Allen-Bradley RS Logix 5000, Guard Logic 5562S, Device Net with safety I/O, touch panel Siemens MP370, frequency inverters SEW MoviMot

**Final Assembly Shop, Ford, Russia**

*Description:* modification and expansion of existing Chassis line in final assembly shop, destined for assembly of Ford Focus and Ford Mondeo cars, conveyor system TTS

*Delivery:* project documentation, integration of existing parts, software development, visualization, design and manufacturing of cabinets for TTS carrier, commissioning

*Technical means:* control system Allen-Bradley ControlLogix, distributed units Allen-Bradley Flex I/O, Ethernet, Device-Net, frequency inverters SEW Eurodrive (Movidrive, Movimot), laser scanner SICK

**Paintshop of car bodies, GM, Russia**

*Description:* process device of paintshop, destined for painting of Opel cars

*Delivery:* electrical installation, project documentation, manufacturing of cabinets, software development, visualisation, assembly, commissioning, supervision during production

*Technical means:* control system SIMATIC S7-300, distributed units Siemens ET200M, Profinbus DP, operator
**References**

**single purpose machines**

**Assembly Line, Sasit Zwickau, Germany**
- **Customer:** Siemens VDO Trutnov, Czech Republic
- **Description:** Assembly and checking of the solenoidal blocks for lorry engines
- **Delivery:** Eplan P5 documentation, PLC software development, manufacturing of control cabinets, visualisation, assembly, commissioning
- **Technical Means:** Siemens S7-316 control system, 4x ET200M, Profinet, 2x Panel 15" B&R PC820, Intouch10.1

**Backdoor Filling Line for VW Passat**
- **Customer:** Ideal Automotive, Bor near Tachov, Czech Republic
- **Description:** Modernizing a backdoor filling line for VW Passat
- **Delivery:** Engineering, control cabinet manufacturing, assembly, electroinstallation, control cabinet modernization and reconstruction, commissioning
- **Technical Means:** Simatic S7-300 control system, Step 7

**Control System of Grinding Machine Waldrich Coburg**
- **Customer:** TOS Celakovice a.s., Czech Republic
- **Description:** Modification of control system of grinding machine Waldrich Coburg
- **Delivery:** Project documentation of electrical part, software development for PLC, assembly, commissioning, customer service, remote system administration
- **Technical Means:** Control system Siemens S7-315-2DP + OP77A, regulator for DC motor Siemens Simoreg DC Master, regulator for synchronous motors Siemens Simodrive U611

**Line for Assembling of High-pressure Pumps**
- **Customer:** Siemens VDO Trutnov, Czech Republic
- **Description:** Line for assembling of high-pressure pumps for diesel systems of Renault cars
- **Delivery:** Software development for PLC and operator panels, commissioning
- **Technical Means:** Control system SIMATIC S7-300, communication bus Profinet, operator panels OP177B, development environment WinCC Flexible 2005, Balluff readers, Datalog scanners connected to the communication
2005

Aluminium profile processing machine

customer: Rodos Kovo, Velke Mezirici, Czech Republic

description: single purpose machine for aluminium profile processing

delivery: project documentation, development and manufacturing of electrical and mechanical parts, software development for PLC, assembly, commissioning, service

technical means: control system B&R CP 474 + OP P127, tapping units and 2 drilling units SUHNER, safety relay PILZ, pneumatic elements and sensors FESTO

Line for assembling of oil and fuel filters DAF

customer: Mann + Hummel CZ, Nova Ves, Czech Republic

description: line for assembling of oil and fuel filters DAF for motors of MX series

delivery: project documentation, development and manufacturing of mechanical parts, manufacturing of electrical parts, software development for PLC and PC, assembly, commissioning, service

technical means: control system SIMATIC S7-300 + ET200M, screw drivers MAVE with distance and torque figures measuring, measuring device for pressure difference - ATEQ, conveyor system BOSCH, pneumatic elements FESTO, printer

Line for assembling of oil filters Fiat

customer: Mann + Hummel CZ, Nova Ves, Czech Republic

description: line for oil filters assembling of two products G215 and XF34 including output tests

delivery: project of electrical and mechanical part, development and manufacturing of mechanical parts, manufacturing of electrical parts, software development for PLC and PC, assembly, commissioning, service

technical means: control system SIMATIC S7-300, built-in computer with touch screen SIEMENS panelPC, screw drivers BOSCH with distance and torque figures measuring, measuring device for pressure difference - ATEQ, conveyor system BOSCH, pneumatic elements FESTO, printer of barcode labels Datamax, servodrives and servomotors FESTO,

Machine for adjustment and testing of pressure regulators

customer: WOCO - System technik Vsetin s.r.o., Czech Republic

description: single purpose machine for adjustment and testing of pressure regulators

delivery: project documentation, manufacturing, software development for PLC and drivers, visualisation, commissioning

technical means: control system SIMATIC S7-300 with OP 270, PC with visualisation Visual Basic, drivers and motors LUST,
references
metallurgy

Heat treatment plant, Alcan Strojmetal, Czech

description: Complete delivery of the control system for Heat
treatment line. Layout design, visualisation and supervision.
delivery: Documentation, PLC and visualisation development,
manufacturing of control cabinets and panels, interface for
higher level, assembly, commissioning
technical means: EPLAN, Simatic S7 – 319F Control System,
ET200S, Profinet Communication, Siemens OP177 Control
panel, Siemens MP277, SICK light barriers, Siemens, Siemens
WIN CC Flexible visualisation

Forging line Nr. 318, Alcan Strojmetal, Czech

description: Complete delivery of the central control system
for a forging line. Layout design and work coordination.
delivery: Documentation, PLC and visualisation development,
manufacturing of control cabinets and panels, interface for
higher level, assembly, commissioning
technical means: EPLAN, Simatic S7 – 319F Control System,
ET200S, Profinet Communication, Siemens OP177 Control
panel, Siemens MP277, SICK light barriers, Siemens, Siemens
WIN CC Flexible visualisation

Forging line, Strojmetal Kamenice, Czech Republic

description: reconstruction of the forging line no. 329
Strojmetal Kamenice
delivery: project documentation in Eplan, integration of
current parts, control cabinet manufacturing, software PLC,
visualisation, commissioning, supervision during production
technical means: Siemens Simatic S7, Siemens Mobile Panel
277, Profinet

BMW foundry, Landshut, Germany

description: exchange of stand-by power supply
delivery: project documentation in Eplan, software
development, visualisation, control cabinet manufacturing,
disassembly of the old equipment, disassembly and removal
of unused equipment from the old part of the
project, assembly, electroinstallation, commissioning, uvedení
do provozu, maintenance and service training
technical means: Simatic Step7 - FUP, ZenOn COPA-DATA
**Continuous casting machine, INSIG Ahwaz, Iran**

**description:** four strands billet continuous casting machine (from 100x100mm to 160x160mm)
**delivery:** software development for PLC and visualisation, commissioning
**technical means:** Siemens S7, 5x CPU 414-2 DP, WinCC 6.0

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**Twin ladle furnace, Azovstal, Ukraine**

**description:** twin ladle furnace for 2 x 350t
**delivery:** software development for PLC and visualisation, commissioning
**technical means:** control system Schneider Electric Premium, weighting system DISOBOX, frequency inverters SEW Movidrive, InTouch 9.5

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**Gas heating furnace, ZDAS, Czech Rep.**

**description:** control system renovation of 50t gas heating furnace
**delivery:** system analysis, software development, visualisation, commissioning and adjustment, training of the staff, test operation
**technical means:** PLC B&R X20 - B&R Automation Studio

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**Electrical arc furnace, K.S.C., Iran**

**description:** electrical arc furnace no.4 and raw material handling
**delivery:** software development for PLC and visualisation, commissioning
**technical means:** redundant control system S7-417H, push button panel PP17

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**Electrical arc and ladle furnace, Visco, Iran**

**description:** control system for 70t furnace with alloying
**delivery:** commissioning (PLC and visualisation)
**technical means:** control system SIMATIC S7 414-3DP, weighting system SIWAREX, frequency inverters SEW Movidrive, WinCC 6.0

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**Gas heating furnace, ZDAS, Czech Rep.**

**description:** control system for 70t furnace with alloying
**delivery:** commissioning (PLC and visualisation)
**technical means:** control system SIMATIC S7 414-3DP, weighting system SIWAREX, frequency inverters SEW Movidrive, WinCC 6.0
Ladle furnace, INSIG Ahwaz, Iran

description: control system of single ladle furnace for 60t

delivery: software development for PLC and visualisation, commissioning

technical means: SIMATIC S7-400, CPU 414-2 DP, WinCC 6.0

El. soaking furnace, ZDAS, Czech Rep.

description: complete system of automation and visualisation

delivery: project documentation, system analysis, software development and visualisation, manufacturing and assembly of control cabinet, commissioning and adjustment, training of the staff, test operation

technical means: B&R Automation Studio verze 2.5.2.7., Control Web 2000 SP11, control system B&R2005, converter B&R RS232/485, PC Dell Optiplex GX 620

Cut to length line, Chynov, Czech Rep.

description: line modification - sheet length measurement by the help of incremental sensor with setting accuracy of 1 mm

delivery: modifications in project and existing software for PLC, electrical installation, assembly of IRC counter and operator panel, commissioning

technical means: incremental sensor, PLC card for incremental sensor, operator panel (PanelView 300 Micro), control system Allen-Bradley SLC500

... see more on www.ATX.cz
certificates and memberships

> memberships in trading organisations
- member of the Czech Chamber of Commerce
- member of the Czech-German Chamber of Industry and Commerce (Německo-česká průmyslová a obchodní komora)
- member of the Chamber for Commercial Relations with CIS (The Commonwealth of Independent States)
- member of the Association for Industrial Companies of Moravia and Silesia (Společenství průmyslových podniků Moravy a Slezska)
- member of the Confederation of Industry of the Czech Republic

> certificates of technical qualification
- Rockwell Automation - official system integrator
- KNX - certified supplier of building automation
- Siemens Automation - certified partner
- BMW Karosseriebau - official supplier
- Adam Opel GmbH - official automation supplier
- certificates for works on designated electrical systems that come under the supervision of the State mining administration (assembly and repairs, engineering)

> quality - ISO 9001:2008 certification
- customer's wishes come first in our decision-making process
- we deliver products and services of the highest possible quality
- we emphasize long-term and mutually convenient cooperation in the relationship with our customers
- we put stress on achieving stability and quality
- improvement of our services within industrial