

WE WORK HARDER
TO KEEP YOU RUNNING

You can rely on our service!



CNC SERVICE AND TRAINING

/sórvís/ n. & v. 1a an act of giving assistance or advantage to another. 1b friendly help; also professional aid or attention

FOCUS ON THE CUSTOMER



Congratulations!

You have discovered the most reliable CNC machine tools, Computerized Numerical Controls for metal-cutting machines, digital readouts and encoders (rotary, angle and linear) on the our market today.

Once your device purchase is finalized, the best is yet to come.

With manufacturer-warranties on parts, nationwide/worldwide coverage, and web management for service calls, ESD Bulgaria invites you to experience a new level in service and overall satisfaction.

- Our team of experts are with long-lived industry experience
- Our technicians are in factory trained
- Convenient service options:
 - Field Service
 - Depot Repair
 - Express Exchange
 - Spare parts
 - Available special service and test equipment
- Versatile coverage options:
 - Installing of a new CNC controls / controllers
 - Replacement of a old CNC controls / controllers with new ones
 - PLC programming for CNC controls / controllers
 - Commissioning and optimization of digital drives
 - Startup Assistance
 - Option Fitting
 - NC-programming training
 - CAD-design of electrical diagrams and cabinets
 - Assembling of electrical cabinets / machines



ESD BULGARIA

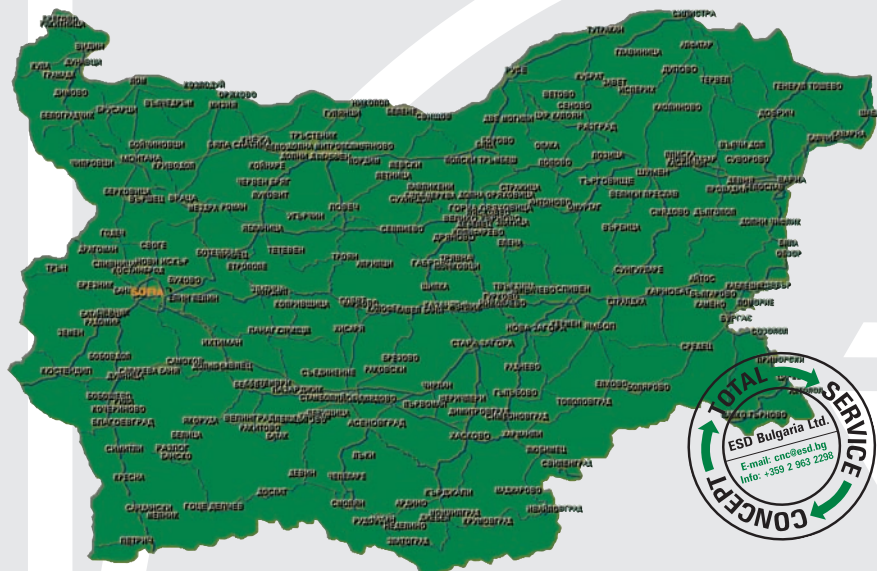
www.esd.bg

competence service centre



The service maintenance of HEIDENHAIN, Kovosvit MAS, TOS Varnsdorf, TAJMAC-ZPS, AVIA, TRENDS, Bosch Rexroth, ELGO Electronic and Datalogic in Bulgaria

is organized in the same principles, as those under which are working all service centers of our partners all over the world. For a country with a small territory, like Bulgaria, the most advisable service organization, with a view to the product application under important and critical situations, it is the centralized service. In this way spare parts supply and their availability is facilitated in maximum. Therefore we could be able to ensure in the best way the uninterrupted machinery work of our customers.



The full force of our organization is dedicated to meeting your needs:

- Dispatch personnel
- Certified field engineers
- Product managers
- Available special service and test equipment
- Spare parts coordinators
- Experts with long-lived experience.



Innovation Solutions Service Results



**We are here for you
for the following situations:**

Technical Consultation and Sales

- Application consultation for a new machines and facilities
- General measurement and automation tasks
- Modernization of machine tools
- Replacement/repair of products and modules

Repair of

- Milling and Lathes Controls
- Linear / Rotary / Angle Encoders
- Position Displays
- Inverters and Motors
- EXE / IBV / IK electronic

Field service for

- TNC / MillPlus
- Lathe Controls
- Linear / Rotary / Angle Encoders
- Position Displays
- Inverters and Motors
- EXE / IBV / IK
- Commissioning and interfacing.



Response Time

Rapid Response is Standard.

Because we have factory trained technicians to support your service needs. Our technicians are experts with long-lived industry experience.

MONDAY 9,⁰⁰ (Sofia' time - GMT+02:00)

You phone or send Internet (www.esd.bg) inquiry for service with the product's serial and identification numbers and description of your problem situation.

MONDAY 10,⁰⁰

Within one (1) hour either the problem is solved or you have received (by phone, e-mail or fax) an confirmation for

- Return of Materials to ESD Bulgaria or
- you have a scheduled with an **on-site** Service Tech.

TUESDAY 17,⁰⁰

Repaired and running smoothly in 15 business hours* or less!

* Valid for current product programs of our partners and available spare parts in Bulgaria.



competence service centre



We can support CNC machines

DECKEL MAHO GILDEMEISTER

DMG is one of the major manufacturers of machine tools in the turning and milling area world-wide - the lathes from GILDEMEISTER, GRAZIANO and FAMOT, the milling and laser machines from DECKEL MAHO and the ultrasonic machines from SAUER.



FMS Drehtechnik as the successor to the GEORG FISCHER +GF+ Machine Tool Factory, today is a part of the MAG Industrial Automation Systems.

BOEHRINGER

With CNC turning machines Boehring (part of MAG Group) offers complete construction series with differing main points of application emphasis.



Since 1945 ALZMETALL is committed to manufacture in Altenmarkt, close to the lake 'Chiemsee', drilling machines, special purpose machines and vertical machining centres.

UNION

UNION Werkzeugmaschinen GmbH Chemnitz is a manufacturer of machine tools focusing on boring mills as well as machining centers. UNION is the oldest machine-tool factory in Germany.

MIKROMAT

MIKROMAT hat seinen Sitz in der Landeshauptstadt des Freistaates Sachsen, in Dresden. Die Stadt Dresden hat eine günstige Verkehrsanbindung, ist eine attraktiver Wohnstandort und verfügt über eine Maschinenbauakademie an der TU Dresden.

— IXION — MAXION — AUERBACH —

Modular milling, cutting and deep-hole drilling machines. Heavy-Duty Cutting Machining Centres.

MIKRON

Mikron AG is the Swiss manufacturer of heavy duty and high speed milling machines and machining centres. With its products, Mikron covers the entire spectrum of both highly productive cutting (HSC) and high-speed cutting (HSC).



W. Fehlmann Ltd develops, produces and sells high-quality machine tools all over the world. The well balanced product range reaches from manual drilling-milling machines up to high-performance machining centers and HSC milling machines.



Bridgeport is a market-leading company - known and respected worldwide - for the design, development, application, sale and support of CNC machining centres.

KELLENBERGER A HARDINGE® Company

KELLENBERGER was established in 1917 and is specializing in the development and production of hydraulically and numerically controlled precision grinding machines and systems for the application in the field of medium and high technology.




Hermle AG is a renowned company with a leading position on the national and international markets. An unending stream of innovations makes Hermle a leading producer of milling machines and machining centres.

IBARMIA

IBARMIA is managed by the family's third generation, a dynasty that is devoted enthusiastically to manufacturing machines of the latest generation, specialized in moving column machining centres.



Innovation Solutions Service Results



HEIDENHAIN

HEIDENHAIN · Postfach · 83292 Traunreut, Germany

DR. JOHANNES HEIDENHAIN GmbH
Dr.-Johannes-Heidenhain-Str. 5 · 83301 Traunreut, Germany
☎ +49 (8669) 31-0 ☎ +49 (8669) 39009 E-mail: info@heidenhain.de

TO WHOM IT MAY CONCERN

Your Reference Our Department/Responsible Person ☎ +49 (8669) 31-2934 ☎ +49 (8669) 5061 Date 24.11.2008
V-K / Frank Rehbein - as

LETTER OF AUTHORITY

We, the company of Dr. JOHANNES HEIDENHAIN GmbH
Dr.-Johannes-Heidenhain-Str. 5
83301 Traunreut
GERMANY

confirm that

ESD BULGARIA LTD.
G.M. Dimitrov Blvd., bl 60, entr. G., fl. 1, ap. 74
1172 Sofia
BULGARIA


is our official, exclusive and authorised representative partner responsible for all activities concerning sales, marketing and technical support of all HEIDENHAIN products in the Bulgarian, Meadonian and former Yugoslavian markets on behalf of Dr. JOHANNES HEIDENHAIN GmbH.


ESD BULGARIA LTD. has the full support of Dr. JOHANNES HEIDENHAIN GmbH.

Dr. JOHANNES HEIDENHAIN GmbH also confirms that ESD BULGARIA LTD. is our service partner whose technicians were trained at Dr. JOHANNES HEIDENHAIN GmbH training centres, and have experience in maintaining the whole product range of Dr. JOHANNES HEIDENHAIN GmbH products.

ESD BULGARIA LTD. has more than 12 years of experience with HEIDENHAIN (and former GRUNDIG NUMERIC) products and has the required know-how.

Yours faithfully
DR. JOHANNES HEIDENHAIN GmbH


E. Lex


T. Popitschill

DR. JOHANNES HEIDENHAIN GmbH
Optik und Elektronik · Präzisionsstellungen
Postfach 1260 · D-83292 Traunreut

Chairman of the Supervisory Board: Rainer Burkhard
Management Board: Thomas Geselemann (Chairman),
Michael Grimm, Rainer Hugi, Matthias Fausser
Version H

Court of Register: Traunstein, HRB 275 · Head Office: Traunreut



TOS VARNSDORF a.s.

Varnsdorf, May 14th, 2010

ESD Bulgaria Ltd.
Dr. G. M. Dimitrov Blvd
bl. 60, entr. G, fl. 1
Sofia 1172
BULGARIA

TO WHOM IT MAY CONCERN

Subject: LETTER OF AUTHORITY

We, TOS Varnsdorf a.s., having seat at Říčnĭ 1774, 407 47 Varnsdorf, Czech Republic confirm that

ESD Bulgaria Ltd.
Dr. G. M. Dimitrov Blvd, bl. 60, entr. G, fl. 1, ap. 74
Sofia 1172
BULGARIA

is our official and authorised representative partner who is responsible for all activities concerning sales, marketing and technical support of all TOS Varnsdorf machines in Bulgaria on our behalf.

TOS Varnsdorf a.s. also confirms that ESD BULGARIA Ltd. is our service partner whose technicians were trained in our premises and have experience in maintaining our machines.

Yours sincerely,


Slavomir Bednĭř
Commercial Director
TOS VARNSDORF
a.s.
Říčnĭ 1774, 407 47 Varnsdorf
IČ: 27327850, DIČ: CZ27327850

TOS VARNSDORF a.s.
Říčnĭ 1774
407 47 Varnsdorf
CZECH REPUBLIC

Zaps: Commercial Register
Ústĭ nad Labem, Section B, Říčnĭ 1774
IČ: 27327850
DIČ: CZ27327850

Tel.: +420 412 351
Fax: +420 412 351
E-mail: info@tosvarnsdorf.cz
<http://www.tosvarnsdorf.cz>

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KOVOSVIT MAS

Under world famous trade mark MAS the staff of the KOVOSVIT, joint stock company, which is a traditional Czech manufacturer and supplier of machine-tools, castings, technologies and services bring its customers solutions meeting their requirements.

TAJMAC – ZPS

TAJMAC-ZPS is a complex firm and a strong contender in development and manufacture of machine tools: high efficiency machining centres and multispindle automatic lathes, as well as CNC sliding headstock turning machines.

TOSHULIN

TOSHULIN, a.s. belongs to the world leading producers of vertical lathes. The major part of its production is specified for stable markets in industrial advanced countries.

TOS KUŘIM

One of the important places within the Czech machine tool industry is held by - from the very moment of its establishment - TOS KURIM - OS, a.s., the manufacturer of precise machine tools.

VARNSDORF TOS

TOS VARNSDORF a. s. situated in Varnsdorf, Czech republic has a years-lasting tradition in machine tool production. TOS VARNSDORF's product program is based on horizontal milling and boring machines of medium class.

KUNZMANN

KUNZMANN is a respected, independent manufacturer of precision universal milling machines and vertical milling centres. The company was founded in 1907 and has developed since that time into a fixture of the tool machine industry.

SHW Werkzeugmaschinen

SHW-Werkzeugmaschinen offers a wide range of future oriented products for the automotive industry, mechanical engineering industry, die manufactures, turbine and tool productions, but also for the aircraft industry and for general subcontracting.

And other, and other ...

And many other machines from different machine producers.



We can support Computerized Numerical Controls

HEIDENHAIN

ALL CNC MODELS: for example TNC 135, 145, 410, 426, 430, 355, 155, 335, 407, 415, 425, 223, 332, 234, CNC model Deckel Mill-Plus, MillPlus IT, Contour 3PH, TNC 310, TNC 320, iTNC 530, etc.

GRUNDIG numeric

CNC models: CNC Pilot 1190, 1290, 1230, 1150, 3110, 3190, MillPlus, Dialog 12, MANUALplus, 3190, GILDEMEISTER DataPilot TurnPlus, etc.
In 1997 GRUNDIG numeric has been taken over by HEIDENHAIN.

PHILIPS DECKEL MAHO GILDEMEISTER

CNC model 3000, 3360, 3460, 5000, 432/10, 432/9, 532, GILDEMEISTER CTX 500, CT 20/40/41/60EPL1/EPL2, etc.
In January 1993 PHILIPS numerical controls division has been taken over by GRUNDIG numeric.

Rexroth Bosch Group

Bosch / Rexroth CNC models CC 100, CC 200, CC 220, CC 300, CC 320, etc.

Rexroth Indramat

All Rexroth Indramat CNC models and servo motors and drives: series TDM, TDA, KDS, DKR, EcoDrive, RefuDrive, IndraDrive, etc.

ELGO ELECTRONIC

All models position indicators and position controllers.

And other, and other ...

And other control systems from different producers.



Spare parts

Thanks to an exemplary spare parts management, ESD Bulgaria offers a wide assortment of wear and spare parts both for the current and obsolete product ranges. In case of need, such parts can be dispatched within a few hours only.

After-Sales Service

ESD Bulgaria offers various services, comprising accomplishment of repair work, relocation of components of the current and obsolete product ranges as well as supply of technical documentation.

Modernization

Modernization of your machines, also called retrofitting, is the solution when it comes to giving your machine park a new life. We can help you get your machines back in top shape. In most cases, the mechanics is still in a good or very good condition, but the controller and drives or digital readout and linear measuring scales are missing or worn out, resulting in increasingly frequent failures and more and more trouble getting spare parts and very low productiveness. And you are not satisfied.

So, we offer you a **PROBLEM SOLUTION**:

- Replacement and reinstallation of CNC control or Digital readout with new ones
- Replacement and reinstallation of motors and servo drives of the Latest generation, irrespective of the technology used before
- Replacement or maintenance for your linear and angle measuring encoders
- Control cabinet retrofitting.

We can support measuring systems

HEIDENHAIN

ALL MODELS measuring systems: sealed linear encoders, exposed linear encoders, rotary encoders, angle encoders, length gauges, etc.



ALL MODELS digital readouts, controllers and magnetic measuring systems (incremental and absolute linear encoders, rotary encoders, etc.).

RSF Elektronik

ALL MODELS digital readouts and measuring systems: sealed linear encoders, exposed linear encoders, rotary encoders, etc.
RSF Elektronik is a HEIDENHAIN daughter company.



METRONICS®

ALL MODELS digital readouts.
METRONICS is a HEIDENHAIN daughter company.

ACU-RITE

ALL MODELS digital readouts and linear measuring systems.
ACU-RITE is a HEIDENHAIN daughter company.

ANILAM

ALL MODELS digital readouts and linear measuring systems.
ANILAM is a HEIDENHAIN daughter company.

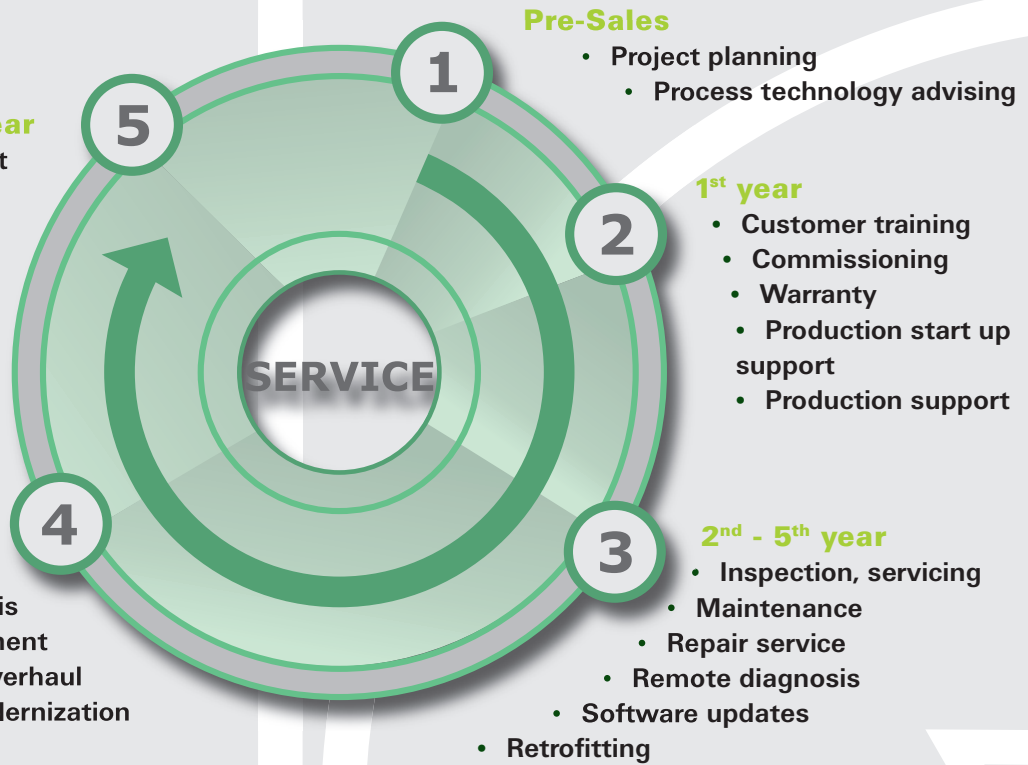


ALL MODELS linear and rotary measuring systems (encoders).
NUMERIK JENA is a HEIDENHAIN daughter company.

And other, and other ...

And many other similar products from different producers.

competence service centre



Remote diagnosis

In recent years, the operating reliability of machine tools and controls has improved continually. However, interruptions or problems can still occur. Often it is simply a programming or parameter problem. Here is where the true advantage of remote diagnosis comes into play: ESD Bulgaria offers the remote diagnosis for machines with **HEIDENHAIN** controllers. Our service technicians will help you to find errors in controls and drives quickly and easily.



Rexroth commissioning and control with engineering tool IndraWorks

From now on, you can use us to handle all of your motion and control tasks. We are working with a single, standardized engineering framework - Rexroth IndraWorks - an intuitive engineering environment designed for all Rexroth drive and control systems.

Project management

If you are a Machine-Manufacturer or Retrofit company and work in field of metal-cutting and/or wood-working machines we offer you a full set of services to find a right solution for your project:

- Pre-sales support
- Marketing information
- Product selection and configuration
- Technical assistance
 - PLC programming
 - Commissioning
 - Digital drive optimization
- After-sales support
- Guarantee and after-warranty support.

If you are a Producer and in your daily work uses a metal-cutting or wood-working machines and you have planned modernization of your equipment, we are ready to help you.

Let's discuss and analyse your needs to find a optimal solution for your problem.

You can trust in ESD Bulgaria!

We will do our best for our team success.



competence service centre



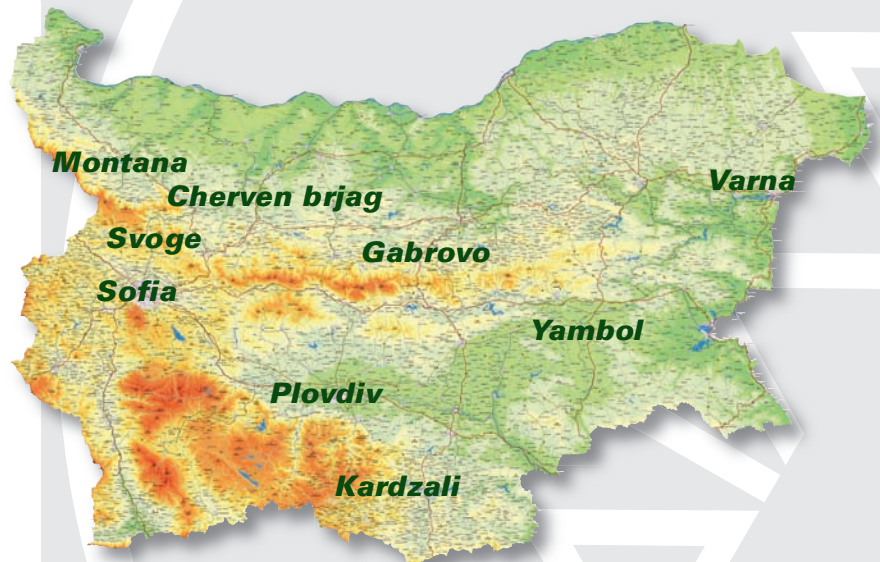
Do you know?

- **50%** of the average machine's potential is untapped due to inadequate training
- **70%** of machine downtime is due to a lack of preventive maintenance
- **20%** of machine downtime is a result of not using original parts and consumables

The Solution:

Training facilities equipped with programming stations for **HEIDENHAIN** milling and turning controls, as well as with machine tools (turning and milling machining centres) with **HEIDENHAIN** controls:

- Technical University of Sofia:
 - Department of Technology of Machine Building and Metal Cutting Machines
 - Department of Automation of Discrete production engineering
- Professional Technical Schools:
 - "Jurij Gagarin" - Montana
 - "Ivan Rajnov" - Yambol
 - PTS - Varna
 - "Velizar Peev" - Svoge
 - "May, 9th" - Cherven brjag
 - "Dr. Nikola Vasiliadi" - Gabrovo
 - "Prof. Tsvetan Lazarov" - Plovdiv
 - "Vasil Levski" - Kardzali



Training courses

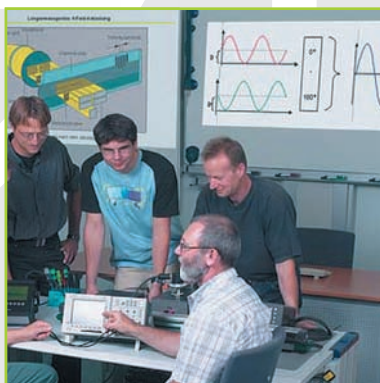
In today's manufacturing environment, skilled employees are a valuable resource. Investing in the best machinery will only get you so far if your operators lack the expertise to capitalize on its potential. Technical qualification and continuing training are indispensable for achieving technological improvement and securing the future of individual employees and their companies.

ESD Bulgaria / HEIDENHAIN offers demand-oriented training courses in which the required technical knowledge is imparted practically, efficiently and in conformity with the customers' demands.

Training courses are not only held in Traunreut, Germany. We can train you at a place determined by you.

ESD Bulgaria / HEIDENHAIN offers the following training courses:

- **NC programming** - For operators of HEIDENHAIN NC controls: Specialists from the NC programming sector (production, process planning, NC training)
- **PLC programming and adaptation** - For specialists of machine tool builders and retrofiters: PLC programmers, design engineers, project coordinators
- **Commissioning / optimization** - For commissioning specialists of machine tool builders and retrofiters
- **Service** - For operation, repair, maintenance, and service staff of machine tool builders, dealers, retrofiters, service companies and users
- **Special training courses** - On request ESD Bulgaria / HEIDENHAIN holds customized training courses.



OUR PARTNERS

HEIDENHAIN

HEIDENHAIN develops and manufactures linear and angular encoders, rotary encoders, digital readouts and CNC numerical controls. HEIDENHAIN products are used primarily in high-precision machine tools as well as in plants for the production and processing of electronic components.



KOVOSVIT MAS has a more than 70 years old tradition in the development and manufacturing of machine tools. The production program includes vertical and horizontal milling centers, 5-axis and portal milling centers, turning centers, CNC lathes and multioperational turning-milling centers.



TOS VARNSDORF situated in Varnsdorf, Czech republic has a years-lasting tradition in machine tool production. TOS VARNSDORF's product program is based on horizontal milling and boring machines and includes also horizontal machining centres and portal type machining centres.



AVIA S.A. Warsaw, Poland was established in 1902 and is one of the oldest Polish industrial plants. At present AVIA offers wide range of vertical machining centres, slant bed CNC lathes, CNC and manual toolroom milling machines, and ballscrews.



TAJMAC-ZPS is a complex firm and a strong contender in development and manufacture of machine tools. The production programme consists of high efficiency machining centres and of world-class multispindle automatic lathes, as well as CNC sliding headstock turning machines.



TRENS has been the biggest producer of machine tools in Slovakia and ranks among the most important ones in Central Europe. At present, the production programme includes development, production and sales of machine tools: universal centre lathes, NC and CNC machine tools.

Rexroth Bosch Group

As a pioneer in controls and drives technology, Rexroth's field of "Electric Drives and Controls" is the ideal supplier for customers who expect field-tested premium solutions. Rexroth is among the innovators in this market, and offers you numerous patented components for motion control.



Since the foundation of ELGO in 1977 the company is specialized in digital length measurements and position controls in various sectors of production engineering. And for more than 30 years ELGO is concentrated on its core competencies "Measure - Control - Position".

DATALOGIC

Datalogic Automation is a world-class producer of identification systems (industrial bar code readers and RFID), laser marking systems, vision systems and sensors for detection, safety, measurement and inspection for applications in the manufacturing, transportation & logistics.



ESD BULGARIA Ltd.

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