

COMPANY PROFILE

ESR – Complete Servo Drive Systems From a Single Source
Within the Power Range of 0.1 – 10 kW (0.1 – 50 Nm)

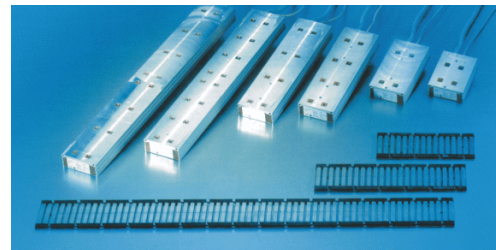
Products

- Digital or analog servo drives
- Integrated positioning and technology functions
- Fieldbus interfaces for automation system integration
- Software for commissioning, diagnostics, and simple programming
- Multi-axis servo systems
- Servo motors, also with gear boxes, brakes, and encoder systems
- Linear motors, on request as modules ready for installation with position sensors and guides
- Accessories for mounting and wiring



Solutions

- Software solutions based on the integrated positioning control
- Function blocks for controllers
- Complete solutions consisting of linear or servo motor, servo drive, and operator terminal



Support

- Drive system configuration in cooperation with users
- Customer-specific adaptations
- Pre-sales and after-sales support
- Servicing throughout the entire machine lifetime



Applications

- Handling and assembly systems
- Optical discs production machinery (CDs, DVDs, ...)
- Electronics production machinery
- Semiconductor production machinery
- Measuring and testing machinery
- Machine tools and metal working machinery
- Packaging machinery
- Textile machinery
- Plastics processing machinery
- Coiling machinery
- and many other applications



ESR Pollmeier GmbH in Numbers

ESR Pollmeier GmbH was founded in 1969 by Ernst E. Pollmeier. Still owned and run by the founder and his family, today the company has approx. 35 employees. The company is located in Ober-Ramstadt, some 40 km south of Frankfurt (Main).

The Specialist for Servo Drives and Servo Systems

Originally, the company was founded as an engineering firm for industrial electronics.

In the late 1970s, drive systems and positioning controls became the main focus of the company, today, these are the exclusive product areas. ESR sees itself as a specialist in the field of servo drive systems and positioning controls. Worldwide more than 100,000 ESR drive systems in successful operation substantiate the company's claim to offer optimum products and services in this highly specialized field.

Complete Servo Drive Systems From a Single Source

"Complete drive systems from a single source" is an accurate summary of ESR's corporate policy. The complete servo drive from a single source includes key products such as

- digital or analog servo drives
 - integrated positioning and technology functions
 - fieldbus interfaces for automation system integration
 - software for commissioning, diagnostics, and simple programming
- supplemented by
- multi-axis servo systems
 - servo motors, also with gear boxes, brakes, and encoder systems
 - linear motors, on request as modules ready for installation with position sensors and guides
 - accessories for mounting and wiring

Furthermore, we offer solutions such as

- software solutions based on the integrated positioning control
- function blocks for controllers
- complete solutions consisting of linear or servo motor, servo drive, and operator terminal

Our Services

In addition to that, the complete drive system from a single source includes our services. Sales and application provide competent support prior to and after sales, if required, the service division will be pleased to be of assistance to you. The individual services:

- drive system configuration in cooperation with users
- customer-specific adaptations
- commissioning service
- servicing throughout the entire machine lifetime

ESR still repairs devices delivered in the 1970s. In addition to our overnight dispatch of spare parts, service on site and the immediate repair of parts returned by the customer will be effected in urgent cases.

The majority of ESR customers are medium-sized mechanical engineering companies with focus on exports, e. g. from the sectors:

- handling and assembly systems
- optical discs production machinery (CDs, DVDs, ...)
- electronics production machinery
- semiconductor production machinery
- measuring and testing machinery
- machine tools and metal working machinery
- packaging machinery
- textile machinery
- plastics processing machinery
- coiling machinery
- and many other applications

Classic machine tool manufacturers are also customers of ESR.

Design and development, production, and sales are concentrated in the Ober-Ramstadt location, some 40 km south of Frankfurt (Main).

In the R&D department, engineers and technicians are working in the fields of

- digital technology
- software for microcontrollers, signal processors, and PCs
- analog technology
- power electronics
- PCB layout and unit design

Especially PCB layout and unit design are key areas with regard to compliance with EMC regulations. Own measurement equipment ensures compliance with EMC regulations, low-voltage directive, etc. from the very beginning of any unit development project.

Production starts with PCB assembly. In this field, ESR cooperates with partners of many years. Assembly and testing of all devices – completed by an endurance test under load – are performed entirely in-house at ESR. Thus, high product reliability can be guaranteed.

Engineers and technicians from the sales and application departments are ready to offer advice to customers in all areas concerning the application of servo drives and positioning controls. Where special questions arise, the sales team's calculations can be backed by computer simulations or measurements at the drive test stand.

Customers and Applications

Fields of Work Within the Company



Cooperation With Partners

ESR offers complete servo drive systems in close cooperation with selected motor and gear box manufacturers. ESR servo drives and motors are matched in order to offer the customer a reliable solution under all operating conditions.

At the other end of the servo drive, cooperation with manufacturers of CNC and PLC systems enables ESR to offer user-friendly solutions.

ESR products are not only distributed by the mother company in Ober-Ramstadt, but also by sales partners. The fact that labeling partners market ESR products under their own name clearly illustrates the trust of ESR's customers in the company's performance.

To be able to offer state-of-the-art products, and also to be in a position to exert influence on the development of standards, ESR also cooperates with competitors in certain fields. These include



- The Association of Electrical Drive Systems in the ZVEI

The ZVEI (Central Association of the Electrotechnical and Electronics Engineering Industry) together with its association of "Electrical Drive Systems" is Germany's most important organization for manufacturers of electrical drives. The new ZVEI association "Automation" focuses on automation systems. ESR staff participate in working groups of both associations.



- VeCon-Project and subsequent projects

Development of a set of chips for digital drive control within the scope of a European joint venture. For long-term preservation and further development, ESR collaborates in two subsequent projects.



- DRIVECOM User Group

This is an association of over 30 European drive system manufacturers developing standards for the networking of drive systems. Originally, the standards were based on the Interbus, new projects (e. g. DriveServer) are bus-independent.



- Fieldbus User Organizations for EtherCAT, CAN, Profibus, Interbus, and Sercos interface



ESR is a member of the EtherCAT Technology Group (ETG), CAN in Automation (CiA), the Profibus User Organization, Interbus Club, and Sercos interface. ESR staff participate in the drive-specific working groups of these organizations.



In addition, ESR staff are active in the Program Committee of the SPS/IPC/DRIVES Congress and in various VDI/VDE-GMA committees.