



SID

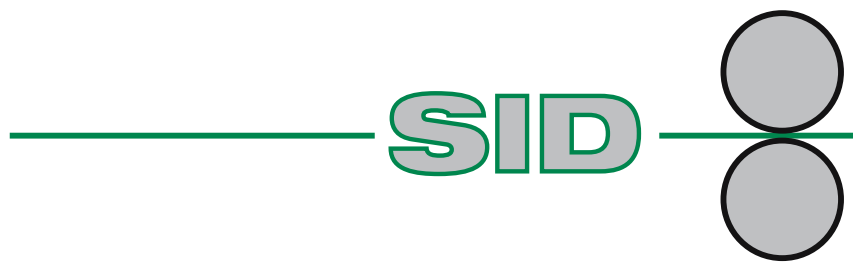
Sächsisches Institut für die Druckindustrie GmbH

Institut des Vereins
POLYGRAPH Leipzig e.V.

Performances and Services

Managing Director:
Dr.-Ing. Felix Berg
Dr.-Ing. Peter Hofmann

Mommsenstraße 2
04329 Leipzig
Phone: +49 (0) 341/2 59 42-0
Fax: +49 (0) 341/2 59 42-99
E-mail: info@sidleipzig.de
<http://www.sidleipzig.de>



The Sächsische Institut für die Druckindustrie GmbH

(Saxon Institute for the Printing Industry, Ltd. under German Law)

has emerged from the internationally esteemed POLYGRAPH Leipzig machine-building company. Under its original name (Institut für polygraphische Maschinen – IPM) it was the research institute of the POLYGRAPH company.

The sole proprietor of the SID is the registered Leipzig POLYGRAPH Association.

In conformity with its statutes the Association pursues the aim to preserve and promote the traditional potential of innovation, expertise and experience and to contribute it to the benefit of the German graphic arts industry. To achieve this aim the Association avails itself of the SID.

The SID is research partner of the German graphic arts machine-building industry, provider of engineering services and competent technology transfer centre for the graphic arts machine building branch and the graphic arts industry.

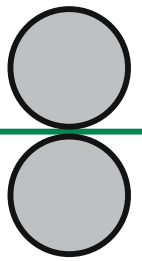
The Institute feels especially obliged to the small and medium-sized companies without or with only very limited innovation potential of their own.

With our know-how and our engagement we support the machine builders, the graphic arts and paper converting industry. We are the partner of both small and medium-sized companies and big enterprises. Members of the Leipzig POLYGRAPH Association enjoy our services at preferential conditions.

In April 1999 the profit-orientated subsidiary Polygraphische innovative Technik Leipzig GmbH (PITSID) was founded through disintegration from the SID. Here, too, the Leipzig POLYGRAPH Association is the sole proprietor. This company manufactures and sells innovations (special measuring equipment, machine assemblies and others), developed by the SID within the framework of its research activities.

On the following pages we provide you with the necessary information on our highly diversified range of performances and services. If nevertheless you should not find a satisfying approach to the solution of your problems, just ring us up.

We shall find a way.



Contract research

Our Institute pursues research and development for third parties, especially for small and medium-sized companies.

The SID is also integrated into the market-preparing industrial research and pursues technology transfer. As sponsors function the Federal Ministries and the federal states.

We are also involved in joint industrial research projects which are supported by the German trade-specific associations VDMA (German Engineering Federation), FGD (Printing Machine Research Association), and bvdm (German Print & Media Association).

We work both on technological problems of the printing industry and technical solutions for the graphic arts machine manufacturers.

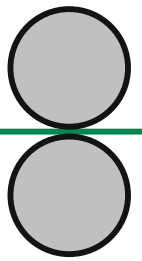
Current emphasis:

Research and development

- Drying of ink and varnish films of different thickness
- Working accuracy of graphic arts machines
- Image identification and processing
- Development of measuring devices
- Emission of graphic arts machines
- Interaction of ink and paper in offset printing

Technology transfer

- Pre press/press/post press
- Quality and Environment Management Consulting
- Handbook „Printing and Advertising“
- Trade-specific internet portal with emphasis on information about workflow and printing technologies as well as marketing in the branch
- Expert opinions by publicly appointed experts
- Printing machine inspections according to bvdm/FOGRA



Testing Laboratory for Printing Quality

Scope of work:

- Evaluation of the quality of printed products
- Machine diagnoses, machine inspection in accordance with BVD/FOGRA or IFRA rules
- Error diagnosis in connection with print problems
- Checking of material properties e. g. of paper, printing inks and dampening solutions
- Training of your staff e. g. in the application of measuring equipment in the printing process

Equipment:

- Densitometers (Techkon, GretagMacbeth)
- Spectro-densitometers (Techkon, GretagMacbeth, X-Rite)
- Digital MicroScope (Techkon)
- Image analysis system (Olympus)
- Reflectometer for gloss measuring (Dr. Lange)
- Rotary viscosimeter (Physica)
- Tack measuring device (prüfbau)
- Abrasion tester (prüfbau)
- Test printer (Bruce Instruments)
- Shore A, Shore hardness tester (Hahn & Kolb, Bareiss)
- Infrared thermometer (Raytec)
- Climatic measuring instrument (Testo)
- Blade Hygroskop (Rotronic)
- pH-meter, conductometer (DS)

We also use the measuring equipment, especially developed by the SID for the graphic arts branch:

- IPA Measuring Device for the measurement of the isopropanol contents of dampening solutions
- LUCHS and AUTOLUCHS Register Measuring Systems for the measurement of feeding, transfer and perfecting register
- Packing Gauge for the determination of the packing height on the plate or blanket cylinder of printing presses

Accredited Testing Laboratory for Noise and Vibration

Measuring equipment for the graphic arts industry and other branches

- Dynamic analyses of forces, deformation, bearing clearance and vibrations
- Complex machine-technical investigations, expert opinions
- High-speed video, stroboscopic and kinematic investigations
- Vibration severity measurement and diagnosis of antifriction bearings

Measuring equipment for the machine building industry

- Measurement of vibrations, forces, torques, pressures, temperatures
- Causality of damages, diagnosis, expert opinions
- Complex dynamic and process-related investigations
- Measurement and optimisation of air suction/blower systems

Noise protection for the graphic arts and other branches

- Measurement of the noise emission of machines and determination of the noise level at workplaces and in rooms
- Determination of main noise sources and their noise characteristics and mechanisms
- Computer assisted optimisation of noise control measures prior to their realisation in rooms

Noise protection for the machine building industry

- EU-conform marking of products in terms of noise emission
- Noise reduction programs and noise reduction of products and their main noise sources
- Employment of sound level meters, sound intensity meters and analysers for the solution of your tasks

The Testing Laboratory for Noise and Vibration has been accredited according to DIN EN ISO/IEC 17025 and works on a Quality Management System on the basis of the ISO 9000 family of standards.



Quality and Environment Management Consulting

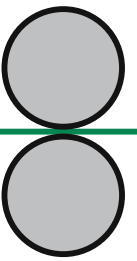
Both the proprietors and the clients of a company have every right to expect the management to meet high demands. High levels in all fields of work will always be their main concern. Nowadays the certificate of an independent and competent institution is a reliable proof of the achieved level and its permanent further enhancement and the certificate will be more and more a client demand. This refers especially to orders of the car manufacturers, the pharmaceutical industry and further certificated clients. The certification of the conformity of a company's quality management system with international standards (e. g. the DIN EN ISO 9001:2000 standards for quality management or the two possibilities for the environment management) is still rare in the graphic arts industry and therefore a market argument of special importance.

On your way to this target you should rely on the services of an experienced consultant. We are specialists in the introduction of Quality Management Systems and Environment Management Systems and their combinations, as a particularly effective and economical variant. We work exclusively for the graphic arts industry and have straightaway guided all our clients to their certificates.

Our experience is your advantage, because you save time and money. Some of the Federal States subsidise the establishment and certification of Quality and Environment Management Systems and you should well in time apply for the funds. It is an indisputable fact that more and more customers of the printing industry (e. g. car manufacturers, machine builders, chemical plants, the pharmaceutical industry, the food stuff industry, chain of retail shops and so on) have their quality management systems certified with the inevitable consequence that in future they will exclusively buy from certified suppliers. Those who fail to make the necessary arrangements for this management advantages and wait instead until their customers demand the certificate may already tomorrow already tomorrow be cancelled from the list of authorized suppliers of his certificated customer. Everybody in charge of a graphic arts enterprise should carefully observe these development trends.

What we can do more and better than consultants, who are foreign to the trade:

- We have especially devoted our services to the solution of problems in medium-sized printing houses and give you also assistance in the continuous improvement of your processes.
- We have guided more than 20 printing houses to their successful certification and gathered the experience from which you can profit today.
- We are branch insiders and know the demands of the standards as well as the technological processes of your company and match them with each other.
- We give you full service from the acquisition of subsidies up to the final certification audit and afterwards we offer you our follow-up services.
- We help you to further develop your quality and environment management system and to carry out the internal audits demanded by the standard.
- We adjust your existing quality management system to the demands of the new standards.
- We integrate the environment management system in your existing quality management system.



Handbook „Printing and Advertising“ – annual edition since 1993

Comprehensive address register of the printing and media trade in Saxony, Thuringia and Saxony-Anhalt: the „handbook“ is annually updated, contains about 1.600 entries and is divided into the following sections.

Companies of the graphic arts industry

- Advertising agencies/designers, pre-press firms, printing houses and bookbinders as well as publishers
- Communication data, information on management, number of employees, product and performance profile and processible formats

Manufacturers and dealers for the graphic arts industry

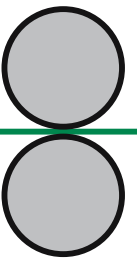
- Communication data, information on management, product and performance profile

Useful information for your daily work

Useful tips for the business life in printing houses, information on environment protection, event calendar as well as addresses of

- Research and education institutions
- Environment protection offices and waste disposal firms
- Professional associations
- Management consultants
- Chambers of Industry and Commerce, Trade Corporations

Extracts of the data base for inspection as well as „handbook“ orders (book version or CD-ROM version) also under www.sidleipzig.de and www.druckportal-sachsen.de. Individual data base inquiries are possible on request by phone.



Test area Pre-press

The test area pre-press offers you manufacturer-neutral consulting in connection with investment decisions but we also give you assistance in your everyday problems with the hard- and software.

Our services in detail:

- **Advisory service on the digital workflow**
For the improvement of the workflow in the pre-press section and its adaptation to the latest requirements we put our expertise at your disposal with consultation, the preparation of workflow concepts and projects.
- **Testing of hard- and software**
We test selected hard- and software to find the solution best suited for your product profile and volume. We put special emphasis on independence from individual manufacturers.
- **Colour management**
We advise you on its applicability and the workflow properties of colour management systems. With the measuring equipment at our disposal we can assist you in working out device-specific colour profiles. You are also welcome to test your software in our laboratory.
- **Measuring and testing equipment for pre-press and printing**
For quality assurance from data processing up to the finished printed product we develop suitable measuring and testing devices including complete test printing plates in accordance with your own demands. With the help of special test elements it is also possible to assess the quality of various imaging and printing systems.