



PrüfstandsTechnik®
Hydraulik Leipzig



The company

>> The PTL Prüfstandstechnik Leipzig GmbH is an innovative company in the hydraulic branch, founded at the traditional location Leipzig. Long-time operating experience and excellent engineers build the basement of the firm which roots are settled in the former firm 'ORSTA-Hydraulik' – the biggest hydraulic company in East Germany.

The PTL Prüfstandstechnik Leipzig GmbH is emanated from the 'IPM-Ingenieur- und Projektmanagement GmbH' and is concentrated to special subjects of the electrical hydraulic and automation, especially to construct test benches and test engineering stands.

The PTL Prüfstandstechnik Leipzig GmbH is a company of the

HYDRAULIK[®]
Union



Location of our firm PTL in Leipzig. Here the IPM – our partner - is also a resident.

Engineering

>> Our experienced engineers calculate and develop sophisticated complete solutions in the sector hydraulic and electrical control technology with the aid of modern and cross-linked CAD-technique.

Our engineering includes

The formulation of the contract documents

The development, projection and construction of the machine

The development and projection of the electrical control technology

The development and programming of the complete measurement, registration and analysing technique to the point of process visualisation

The complete documentation

The engineering services for the total machine runtime

The construction with: Auto-CAD, Inventor, Micro station, ECS-CAD

The programming with: Step7, MICRO-WIN, PC-WORX, Lab View, WinCC, Delphi

We are developer for

servo valves and servo technique

short stroke cylinder and servo cylinder

specific hydraulic sensors for distance and volume flow rates

customer-specific special function valves

solutions for drive and control systems

customer- and user-specification software



- Regelmäßige Betreuung
- Fachbetrieb gemäß § 19 I WHG



Certificates

We are accredited to DIN EN ISO 9001:2008

We are certified specialist § 19 I WHG

We have exhaust air treatment certificates for our sensors

We have the UL Listing Mark for our sensors

Products

>> We manufacture hydraulic products and adjust them task related.



Volume flow sensors

Measurement principle: analyzing of the variable wetted section

Measurement range: 0-40 l/min; 0-100l/min

Excellent measurement precision and dynamic

Nominal pressure to 320 bar

Output signals: 4-20mA, 0-5V

High resistance and overload capability

Applicable in every industry sector

>> **Position sensors** attend as connectors at hydraulic components and machines to identify specific parameters.

Position sensors

Inductive distance measurement (LVDT)

Rated pressure to 320bar

Measuring distances are 4, 7, 8, 25 and 50mm; intermediate sizes possible

Output signals: 4-20mA, 0-5V

Measuring faults $\leq 1\%$

Rigid steel housing, any mounting position possible

Exhaust air treatment in 3 categories

UL Listing Mark

Applicable in every industry sector

>> **Volume flow sensors** register streams of fluids in hydraulic constructions. The excellent precision and dynamic of these sensors allows the application in the measurement-, control- and automatic control technique as well as in fluid measurement systems.



>> **Servo valves** are connectors of electric input signals and hydraulic output signals. These valves are applied when exact motion sequences with fast reactions and high requirements in the control accuracy and transient time are necessary.

Servo valves

Manufacture of servo valves and servo consoles

Fabrication of electro-mechanical actuators

Reparation and service for servo technique



>> **Short stroke linear drives** are fast servo cylinders, which are specialized for their practice. For a complete solution belong the control unit for the step motor and the hydraulic aggregate.

Short stroke linear drives

Stroke to 30mm

Stroke frequency to 20Hz

Strengths to 6t

Applicable in moulding presses, punch machines, nibble machines and final controlling equipment



Aggregate and plant engineering

>> We are specialized in aggregate and plant engineering for customer-specific solutions in the range of ready-for-connection aggregates up to complete hydraulic machines with any electrical control units.



Aggregate Engineering

From small units up to large-scale units

All specifications also in stainless steel possible

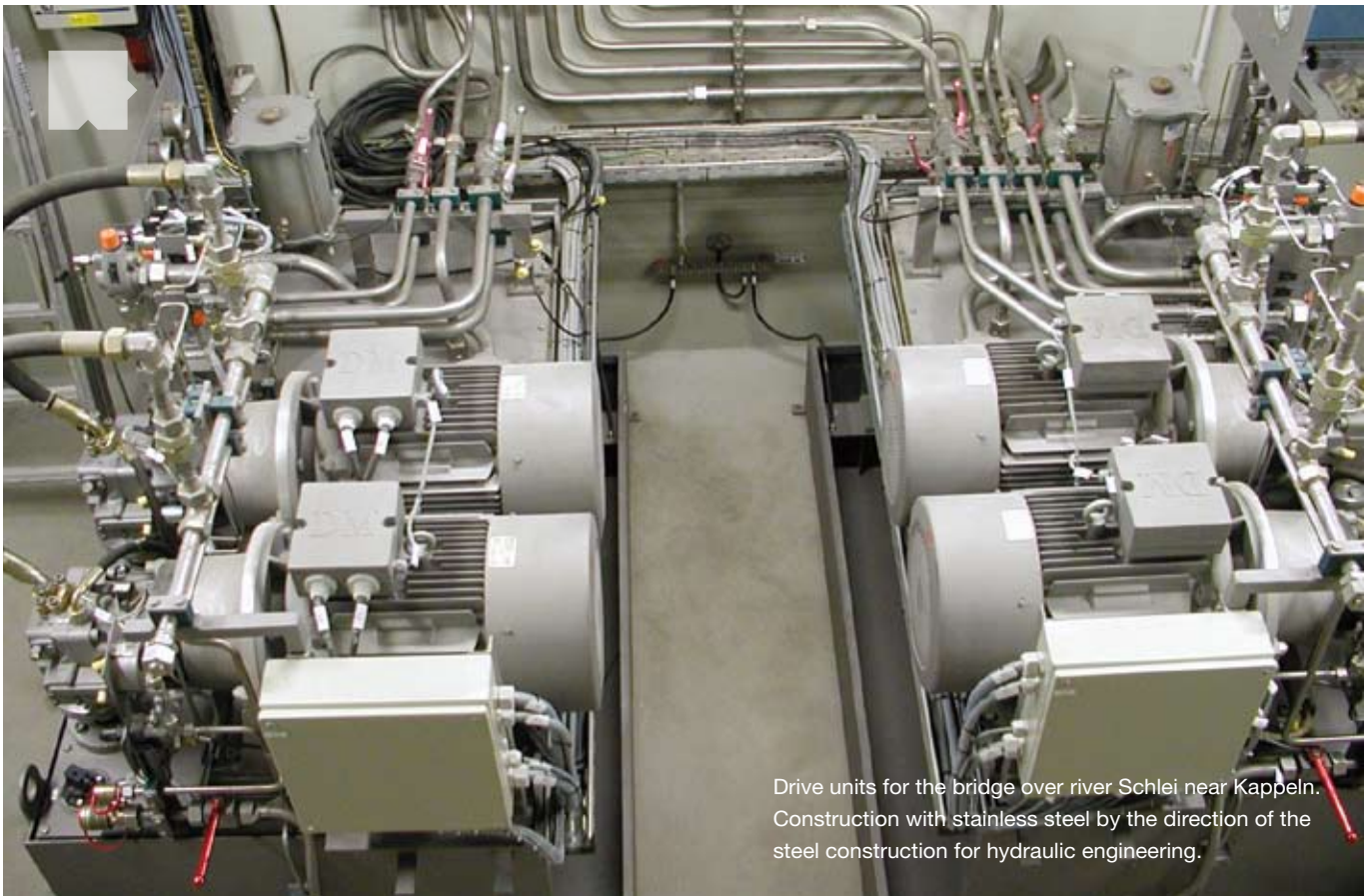
Ready-for-connection with an electrical terminal box

Special plant engineering and hoisting technology

Automation machinery with progressive measurement and control engineering

High-precision synchronism control

Fast and precise positioning of linear drives



Drive units for the bridge over river Schlei near Kappeln. Construction with stainless steel by the direction of the steel construction for hydraulic engineering.



4-leaf bascule bridge over river Schlei near Kappeln. Engineering by the PTL, realization by the IPM.

>> Our service portfolio includes hydraulic drive technologies and electrical controls for hydraulic gates, gateways and flaps. We offer synchronism controls, working cylinder including measurement systems, surveillance of water levels with signalling device, data storage and visualisation of the processes. We supply the machine technology and the accessory control unit up to the traffic lights and the barrier system completely from one source.

Steel construction for hydraulic engineering

Floodgates and weirs

Detention reservoirs for floodwater

Impact protection constructions

Bascule bridges and lift bridges

Ferry docks

Test bench manufacturing and test engineering

>> Test stands and test engineering technologies are developed and constructed by default or compiled specification books. The complete test procedures are realized automatically by our own programs. Thereby all sequences are visualized and recorded.

Test stands

R&D services

Series test stands

Continuous operating test bench

Test stands for burst motions

Pulsation test stations

Construction

Compact and modular

Noise optimised and surrounded

Menu-driven handling

Automatic measured value acquisition

Computer-based analysis



>> We advise our customers in their test requirements and conduct their orders precisely.



Test stand for servo valves and servo actuators.

Test engineering

Development of test programs and test technologies

Establishing of customer-specialized test facilities

Accomplishment of static and dynamic test

Test of single components and separate elements

Evaluation and annotation of test results



Service and attendance

>> We are specialized in the conservation of values, modernisation and trade mark independent maintenance.

Maintenance and failure relief

Maintenance and inspections for the hydraulic and the electric in facilities and systems

Physical engineering support for debugging and diagnostic

Acceptance of long-term preventive maintenance contracts



Test stand construction for hydraulic components.



Repair and servicing

General repair of hydraulic components

Specific repair of servo valves and proportional valves

Repair of 'ORSTA'-technology, including electronics

Construction of diagnostic systems to prevent maintenance

Repair and maintenance of hydraulic machines and systems

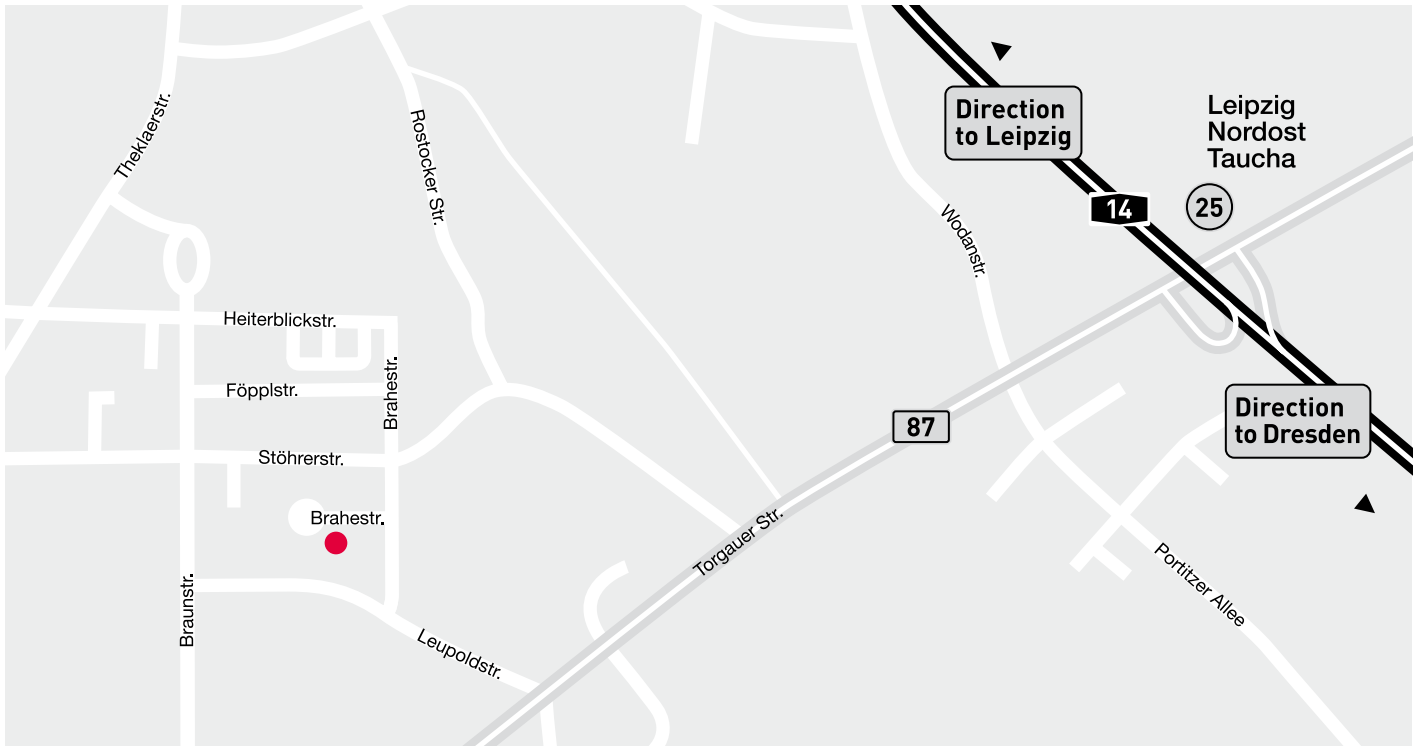


Service and trade

Adaption and modernisation of existing installations

Rebuilding and preservation of the function of present facilities and systems

Trade with general and specific hydraulic components



>> Use the motorway A14 to the exit Leipzig Nordost/ Taucha, and then the direction to the city centre on B87. Turn to the Leupoldstraße right and afterwards to the Brahestraße right. At the next street corner turn left and you can see our firm.



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