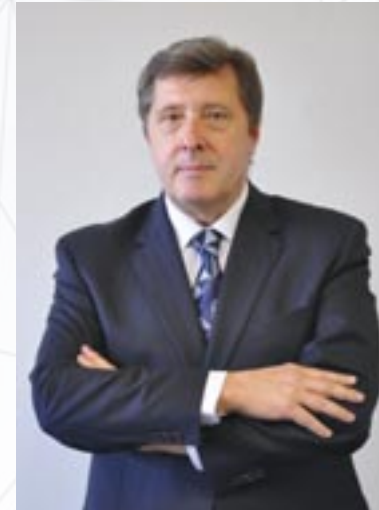




820 YEARS
2022 OF INNOVATION

PRVĀ ZVĀRAČSKĀ[®], a. s.
FIRST WELDING, Inc.
A LEADER IN HIGH-TECH WELDING TECHNOLOGY RESEARCH

THINKING HIGH - TECH



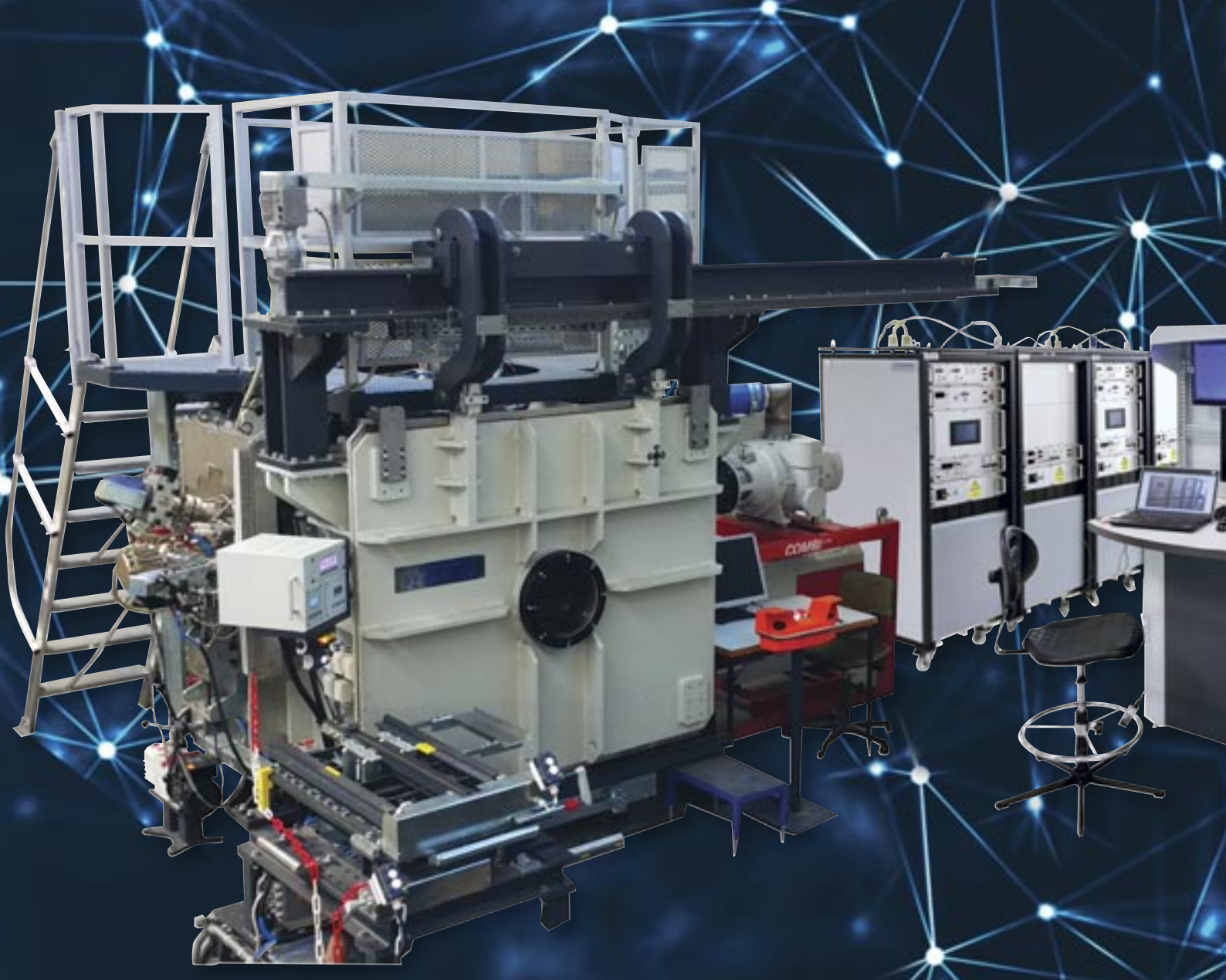
Dear business partners and friends,
20 years have just passed since our company PRVÁ ZVÁRAČSKÁ, a. s. was founded. Our story is the story of a group of experts who decided to go their own way, on the pathway to knowledge and development of welding. We consider welding to be a cross-cutting technology that has a significant impact on all industries. Today, some fields would no longer be able to exist without welding and other methods of joining materials. The path we have taken, our professional activities, the innovation of technology and equipment, the application of the results of our industrial research and development into practice, have gradually taken into account all these mentioned trends. We have always put the main emphasis on top expertise, reliability, integrity, fairness and fair teamwork.

Our main goal – to become a leader in the research of high-tech welding technology on an international scale – thus becomes more realistic from year to year.

Thank you all for your kindness and cooperation. I really appreciate it.

Dr. h. c. Ing. Peter Fodrek, PhD.
Director General and Chairman of the Board of Directors

20 YEARS
OF INNOVATION



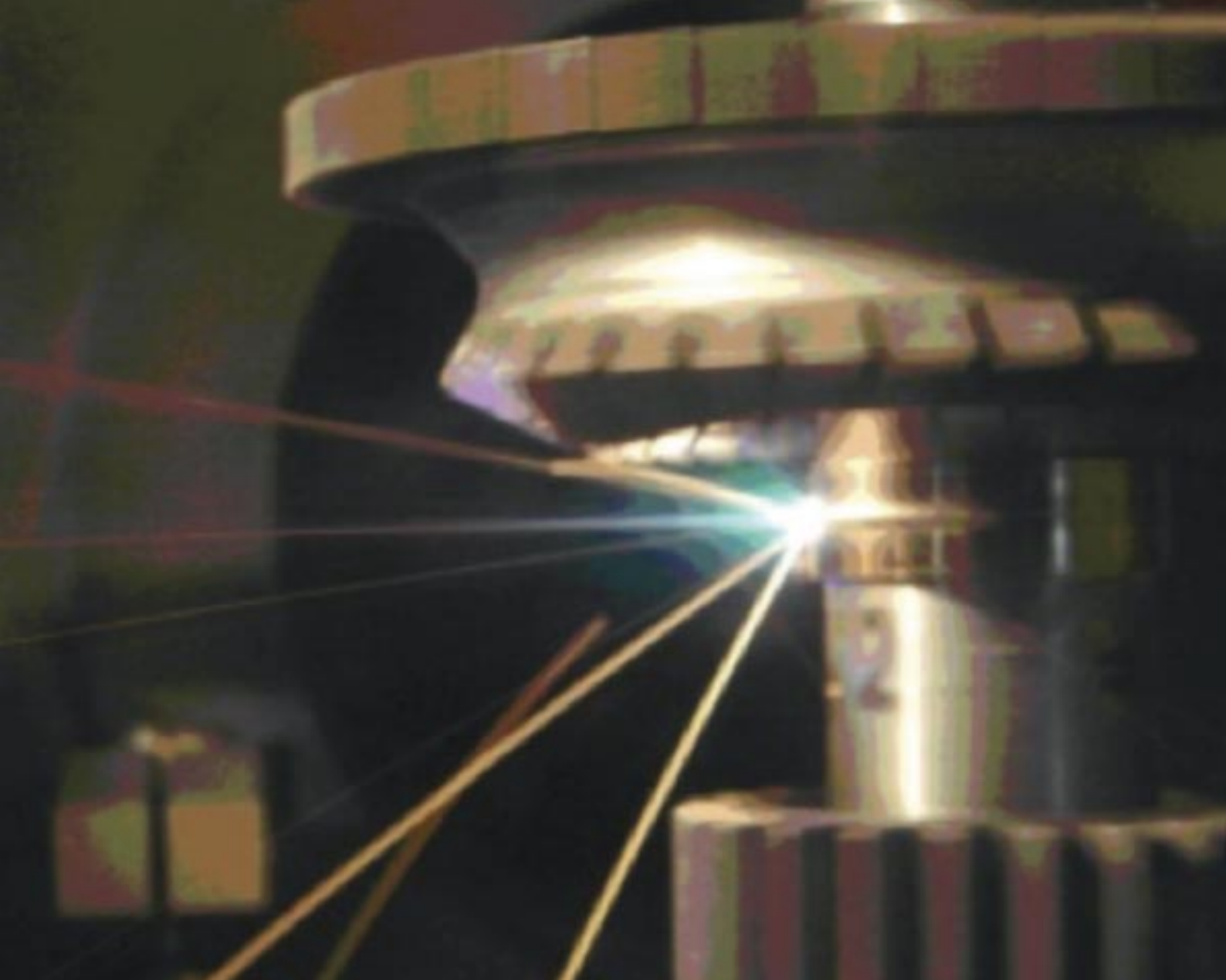
WELDING TECHNOLOGY AND AUTOMATION

HIGH-TECH WELDING EQUIPMENT DESIGN AND MANUFACTURE

- WELDING TECHNOLOGY AND EQUIPMENT RESEARCH AND DEVELOPMENT
- PROPOSAL, DESIGN, MANUFACTURE AND DELIVERY ACCORDING TO CUSTOMER REQUIREMENTS
 - ELECTRON BEAM WELDING TECHNOLOGICAL COMPLEXES
 - LASER WELDING WORKSTATIONS
 - HIGH PRODUCTION WELDING LINES AND COMPLEXES
 - SINGLE-PURPOSE WELDING EQUIPMENT
 - PLASMA CUTTING CENTRES
 - VIBRATING DEVICES FOR RESIDUAL STRESS RELIEF



20 YEARS
OF INNOVATION



ELECTRON BEAM WELDING

TECHNOLOGY FOR INDUSTRY:

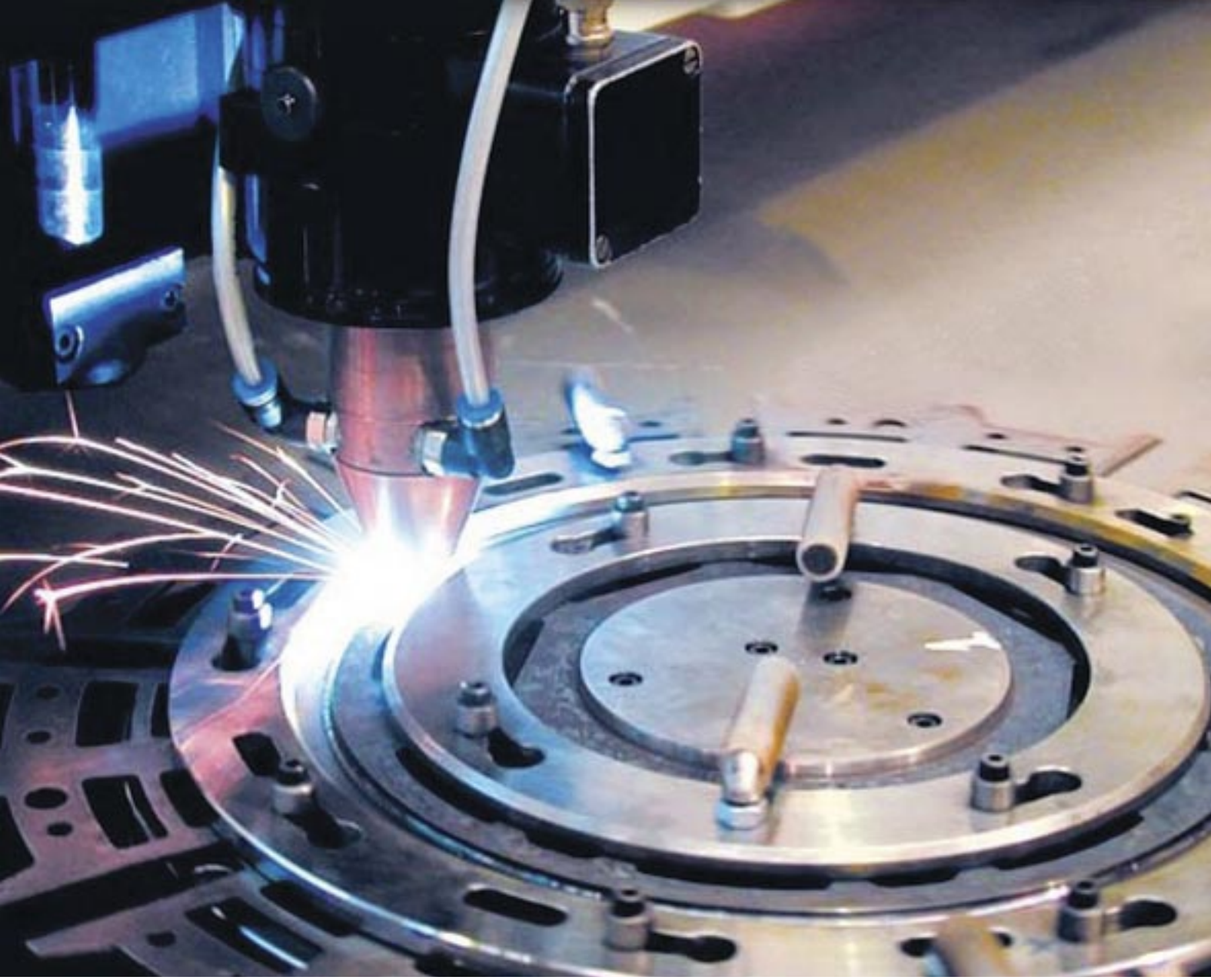
- ENGINEERING ● AUTOMOTIVE
- ENERGY ● AERONAUTICAL ● SHIPBUILDING ● MINING
- ARMAMENT ● GLASS ● CHEMICAL
- RAIL

PROCESSES:

- WELDING OF METAL MATERIALS THAT ARE DIFFICULT TO WELD
- SURFACE TREATMENT OF METAL MATERIALS
- HIGH VACUUM WELDING



20 YEARS
OF INNOVATION



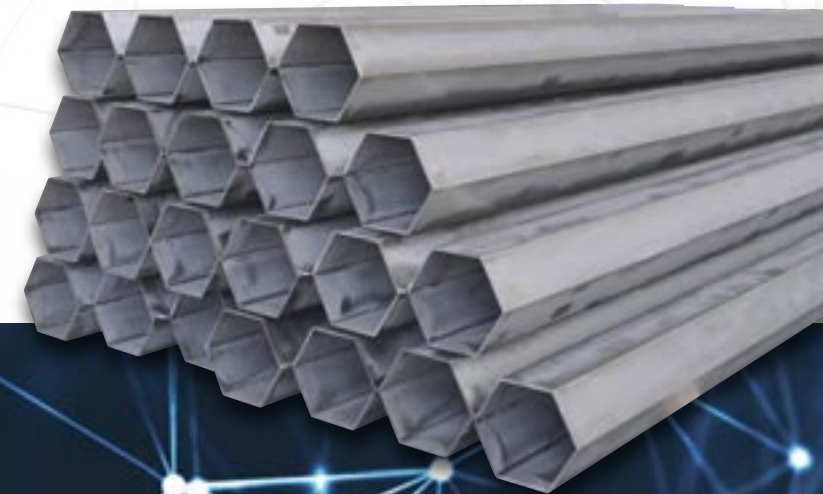
LASER BEAM WELDING

TECHNOLOGY FOR INDUSTRY:

- ENGINEERING ● AUTOMOTIVE
- ENERGY ● AERONAUTICAL ● SHIPBUILDING ● MINING ● ARMAMENT
- GLASS ● CHEMICAL
- RAIL

PROCESSES:

- WELDING
- FORMING SURFACE LAYERS
- HARDENING



20 YEARS
OF INNOVATION



ROBOTISED WELDING

TECHNOLOGY FOR INDUSTRY:

- AUTOMOTIVE ● ENGINEERING
- ENERGY ● AERONAUTICAL ● SHIPBUILDING ● MINING ● ARMAMENT
- GLASS ● CHEMICAL ● RAIL

PROCESSES:

- AUTOMATED CADENCE SERIAL WELDING OF COMPONENTS
- LASER, ARC WELDING, ELECTRON BEAM TECHNOLOGY



20 YEARS
OF INNOVATION



ACCREDITED AND AUTHORISED ACTIVITIES

CERTIFICATION OF PERSONS

- WELDING
 - BASIC QUALIFICATIONS
 - HIGHER WELDING SPECIALISTS
- NON-DESTRUCTIVE TESTING
- CORROSION PROTECTION



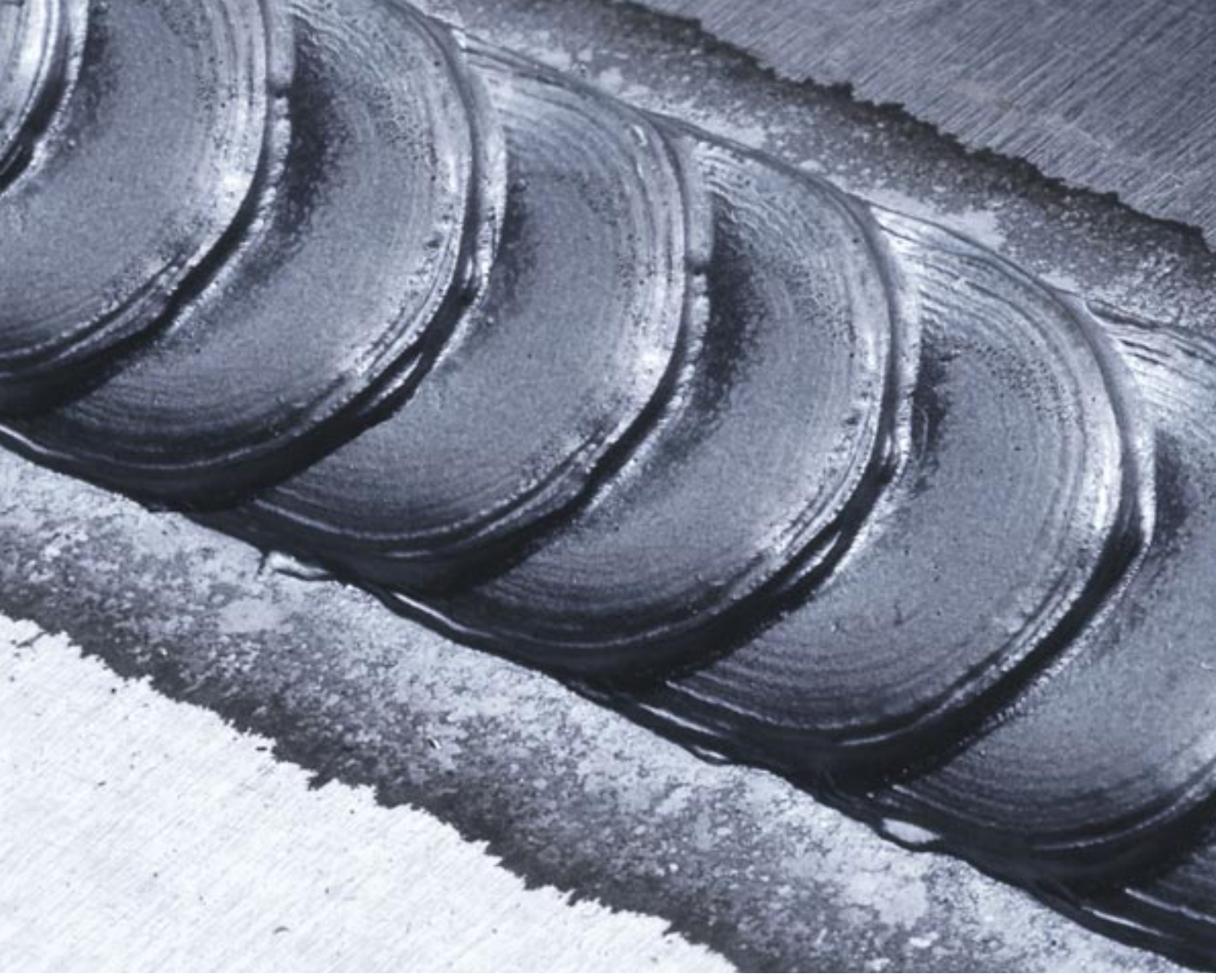
20 YEARS
OF INNOVATION



CERTIFICATION AND INSPECTION

- CERTIFICATION OF QUALITY MANAGEMENT SYSTEMS
- PRODUCT CERTIFICATION
- INSPECTION ACTIVITIES
- APPROVAL OF PRESSURE EQUIPMENT AND ASSEMBLIES THEREOF
- APPROVAL OF WELDING, SOLDERING AND ADHESIVE TECHNOLOGY PROCEDURES
- VERIFICATION OF COMPLIANCE WITH THE REQUIREMENTS OF DETERMINED WELDING AND NDT ACTIVITIES
- ASSESSMENT OF TECHNICAL DOCUMENTATION FOR WELDING AND NDT

20 YEARS
OF INNOVATION



MATERIAL DIAGNOSTICS AND STRENGTH RESEARCH

- MECHANICAL TESTING OF TECHNICAL MATERIALS
- METALLOGRAPHIC TESTING
- DEFECTOSCOPIC TESTING
- CORROSION TESTING

APPLICATION:

- APPROVAL OF WELDING PROCEDURES – WPQR
- ASSESSMENT OF THE WELDED JOINT QUALITY AFTER EXECUTION
- QUALITY ANALYSIS OF INPUT MATERIALS AND PRODUCTS
- DIAGNOSTICS OF WELDED STRUCTURES



20 YEARS
OF INNOVATION



TRAINING OF PERSONNEL IN THE FIELD OF WELDING AND NDT

- COURSES TO OBTAIN BASIC WELDING QUALIFICATIONS
- COURSES FOR HIGHER WELDING SPECIALISTS
- COURSES IN THE FIELD OF NDT AND CORROSION PROTECTION
- PROFESSIONAL SEMINARS AND CONFERENCES
- PUBLISHING ACTIVITIES



20 YEARS
OF INNOVATION



WELDING RESEARCH PROJECTS

- WORK ON NATIONAL AND INTERNATIONAL PROJECTS OF APPLIED RESEARCH AND DEVELOPMENT WITH A FOCUS ON COMBINING HARD-TO-CONNECT MATERIALS WITH HIGHLY CONCENTRATED ENERGY SOURCES – LASER AND ELECTRON BEAM, ON A GLOBAL LEVEL
- EIGHT AWARDS OF THE MINISTRY OF ECONOMY OF THE SLOVAK REPUBLIC “INNOVATIVE ACT OF THE YEAR”
- TWO AWARDS OF THE MINISTRY OF EDUCATION, SCIENCE, RESEARCH and SPORT OF THE SLOVAK REPUBLIC “SCIENTIFIC-TECHNICAL TEAM OF THE YEAR”
- TWO AWARDS OF THE MINISTRY OF EDUCATION, SCIENCE, RESEARCH and SPORT OF THE SLOVAK REPUBLIC “SCIENTIST OF THE YEAR”
- PATENTS AND UTILITY MODELS IN THE FIELD OF WELDING



20 YEARS
OF INNOVATION



INTERNATIONAL COOPERATION

- TWI LTD, ABINGTON, GREAT BRITAIN
- E. O. PATON ELECTRIC WELDING INSTITUTE, KIEV, UKRAINE
- TESIYDO, s. r. o., BRNO, CZECH REPUBLIC
- INSTITUT ZA VARILSTVO d. o. o., LJUBLJANA, SLOVENIA
- BELARUS NATIONAL ACADEMY OF SCIENCES – PHYSICAL-TECHNICAL INSTITUTE, MINSK, BELARUS
- ISQ EM, PORTUGAL
- FUSION FOR ENERGY, SPAIN
- SLV HALLE GmbH, GERMANY
- ECWRV, HALLE, GERMANY
- VIACERT, SHANGHAI, CHINA
- FIRST WELDING CERTIFICATION PVT LTD KANCHIPURAM, INDIA

COOPERATION WITH UNIVERSITIES AND THE ACADEMIC SECTOR

- UNIVERSITY OF ŽILINA IN ŽILINA – FACULTY OF MECHANICAL ENGINEERING
- SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA
 - FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
 - FACULTY OF CIVIL ENGINEERING
 - FACULTY OF MATERIALS SCIENCE AND TECHNOLOGY IN TRNAVA
- TECHNICAL UNIVERSITY OF KOŠICE
 - FACULTY OF MECHANICAL ENGINEERING
 - FACULTY OF MANUFACTURING TECHNOLOGIES WITH THE SEAT IN PREŠOV
- INSTITUTE OF MATERIALS AND MACHINE MECHANICS OF THE SLOVAK ACADEMY OF SCIENCES IN BRATISLAVA
- INTERNATIONAL LASER CENTRE – A MEMBER OF LASERLAB

20 YEARS
OF INNOVATION



PRVÁ ZVÁRAČSKÁ, a. s.
KOPČIANSKA 14
851 01 BRATISLAVA 5
www.pzvar.sk