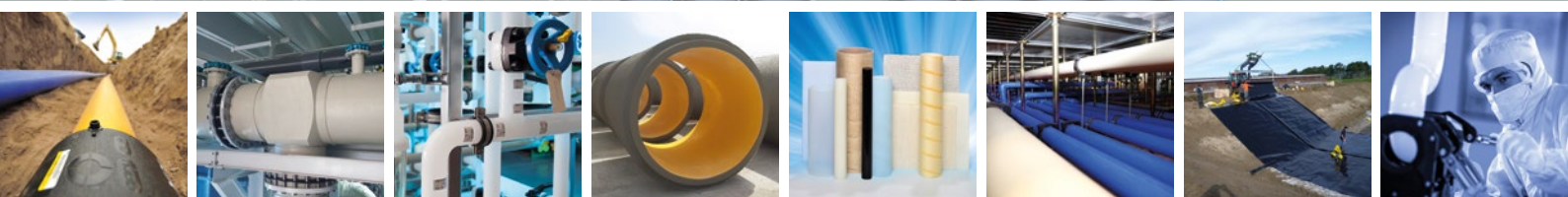


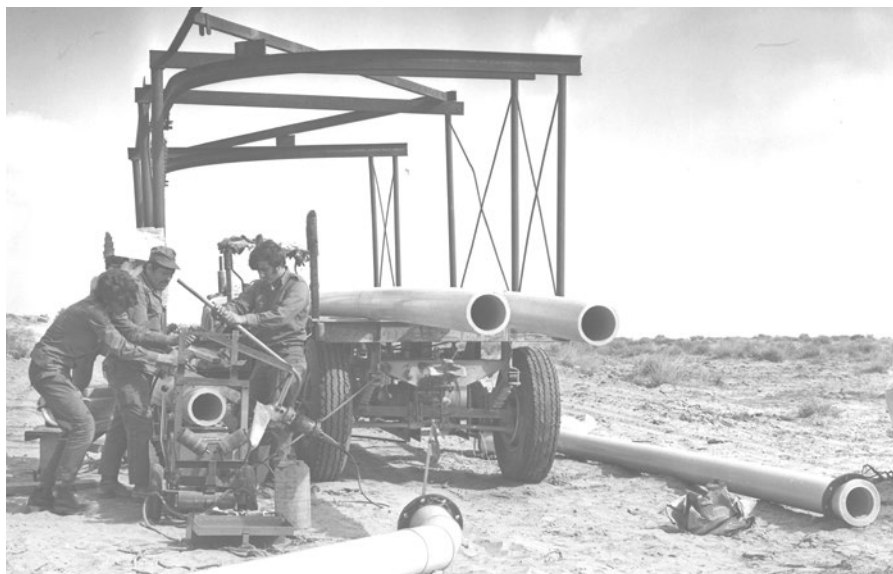
The Plastics Experts.





AGRU

Corporate mission



VISION

AGRU is established as the world's most important single-source supplier for high-quality products made from engineering plastics. Conservation of resources and respect for the environment occupy the foreground in all our business endeavours. Customers all over the world trust the plastics expertise the company has amassed in the course of a lifetime.

SUCCESSFUL SINCE 1948

The AGRU success story that has lasted for more than seven decades. Founded back in 1948 by Alois Gruber senior, nowadays the company is one of the world's most important single-source suppliers for piping systems, semi-finished products, concrete protection liners and lining systems made from engineering plastics.

Our ability to supply everything from a single source sets us apart. We use only top-grade thermoplastic polymers as our raw materials. When it comes to application-technical consulting, we are your best partner in the field.



MISSION

AGRU supplies the plastics technology that makes customers from all over the world successful in their widely differing industries. As a reliable, experienced supplier we offer everything from semi-finished products through to technologically optimised injection mouldings, all from a single source. We handle the challenges from thousands of projects and evolve our products and services on a rolling basis. Uncompromising quality, outstanding customer benefit and high operational dependability are our maxims. We implement custom solutions and application-oriented new developments with the highest flexibility - with precision and economically. Our dedicated employees with plastics expertise make AGRU successful as a global player.



THE PLASTICS EXPERTS.

With its competence in producing engineering plastics components and developing tailored solutions, AGRU is present in virtually every sector of industry. The possibilities opened up by our products are manifold, just as the requirements of our customers are diverse.

The thermoplastics worked by AGRU are extremely high-quality engineering polymers used in virtually all branches of industry where durability, operational dependability, cost certainty and versatility are essential.

AGRU

at a glance



1948	FOUNDING YEAR
6	CONTINENTS
100	COUNTRIES
150	DISTRIBUTION SITES
1200	EMPLOYEES
95 %	EXPORT RATE
100 %	CUSTOMER VALUE



Industries

- ⦿ WATER / GAS INFRASTRUCTURE
- ⦿ ENERGY SECTOR
- ⦿ CHEMICAL / HEAVY INDUSTRIES
- ⦿ SEMICONDUCTOR / LIFE-SCIENCES
- ⦿ TANK AND APPARATUS BUILDING
- ⦿ NAVAL AND AVIATION INDUSTRIES
- ⦿ CIVIL ENGINEERING / MINING
- ⦿ BUILDING CONSTRUCTION



AGRU HQ, Bad Hall, Austria



PLANTS 2-5



PLANT 1

AGRU

customer orientation

“HIGH PRODUCT QUALITY MAKES A PIPING SYSTEM RELIABLE – AN ISSUE ON WHICH AGRU IS RIGOROUSLY UNCOMPROMISING.”



AGRU = ALOIS GRUBER

AGRU is an acronym derived from the name of Alois Gruber: Alois Gruber and son Alois Gruber jun. are the majority owners and CEO's of AGRU. Clear decisions, integrity and continuity characterise their company. AGRU customers appreciate the extraordinary flexibility and short reaction times made possible by this flat hierarchy. Just as they appreciate the reliability of the products and the dependability of every agreement we make. As a real family-owned company, AGRU is very much aware of its responsibility to customers, employees and the environment.

SATISFYING REQUIREMENTS WITH PRECISION

AGRU has built a reputation for satisfying its customers' wishes efficiently, cost-effectively and with superlative flexibility. Customer-oriented technical solutions, the ability to think outside the box and decades of hands-on experience are what it takes.





Growth through progress



1948
FOUNDATION OF AGRU



1961
PE / PP PROCESSING



1966
INJECTION MOULDED FITTINGS



1987
BRANCHES IN ASIA & USA



2010
XXL PIPES OD 2500 MM



2016
CLEANROOM PLANT



2017
XXL PIPE PRODUCTION FACILITY



2018
NEW APPRENTICE SHOP



2019
EXPANSION CLEANROOM PLANT



Operational reliability, on-time delivery and maximum customer benefit are our maxims. Over more than 50 years, the plastics experts have accumulated a wealth of expertise unique in the industry. This lifetime of experience flows into application-oriented innovation, high-tech production and outstanding service and logistics performance.

Different materials, technologies and products plus a worldwide network of partners all contribute to making AGRU a single-source supplier. For large-scale projects and special solutions in particular, AGRU is able to offer its customers a one-stop shop.





AGRU a trusted partner



VAST STORAGE
AREAS



GLOBAL LOGISTIC
OPERATION



AGRU production



100.000 TONNES/YEAR



115.000 M² FLOOR SPACE



PLANTS IN 5 COUNTRIES



TECHNOLOGY LEADERSHIP

Producing at the cutting edge of technology, improving processes and optimising results are part and parcel of AGRU's guarantee of competitiveness. Day in, day out, we demonstrate our cost and quality leadership in our plants all over the globe. The technological edge means that AGRU solutions are consistently among the best in their field.

MANUFACTURING EXPERTISE

Quality and cost leadership are another two of our maxims. So our customers profit from state-of-the-art technologies at an unbeatable price-performance ratio. One major plus is our technological diversity: injection moulding is one of our core competences and another is the extrusion of thermoplastics. And working with fibre composites and fluoroplastics is an established tradition at AGRU.

PRODUCTIVITY

Productivity means taking know-how, automation technology, meticulous craftsmanship, process reliability, lean production and energy efficiency and combining them to optimum effect.



Top-grade fittings

MAXIMUM CUSTOMER BENEFIT

AGRU fittings for medium-retaining pipes are hallmarked by uncompromising precision, robustness and durability. In this respect, functionality and cost-effectiveness are two sides of the same coin. As an industry leader, our company produces injection-moulded fittings of enormous design complexity, using the very latest technologies.

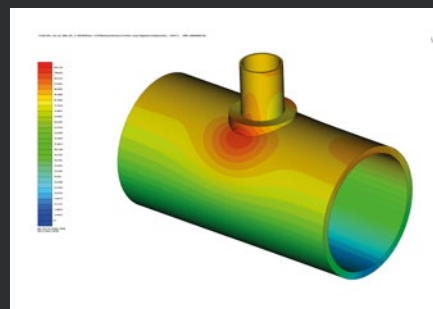


PIPING SYSTEMS FROM AGRU DELIVER ON EVERYTHING THE MANUFACTURER PROMISES.



OPERATIONAL SAFETY

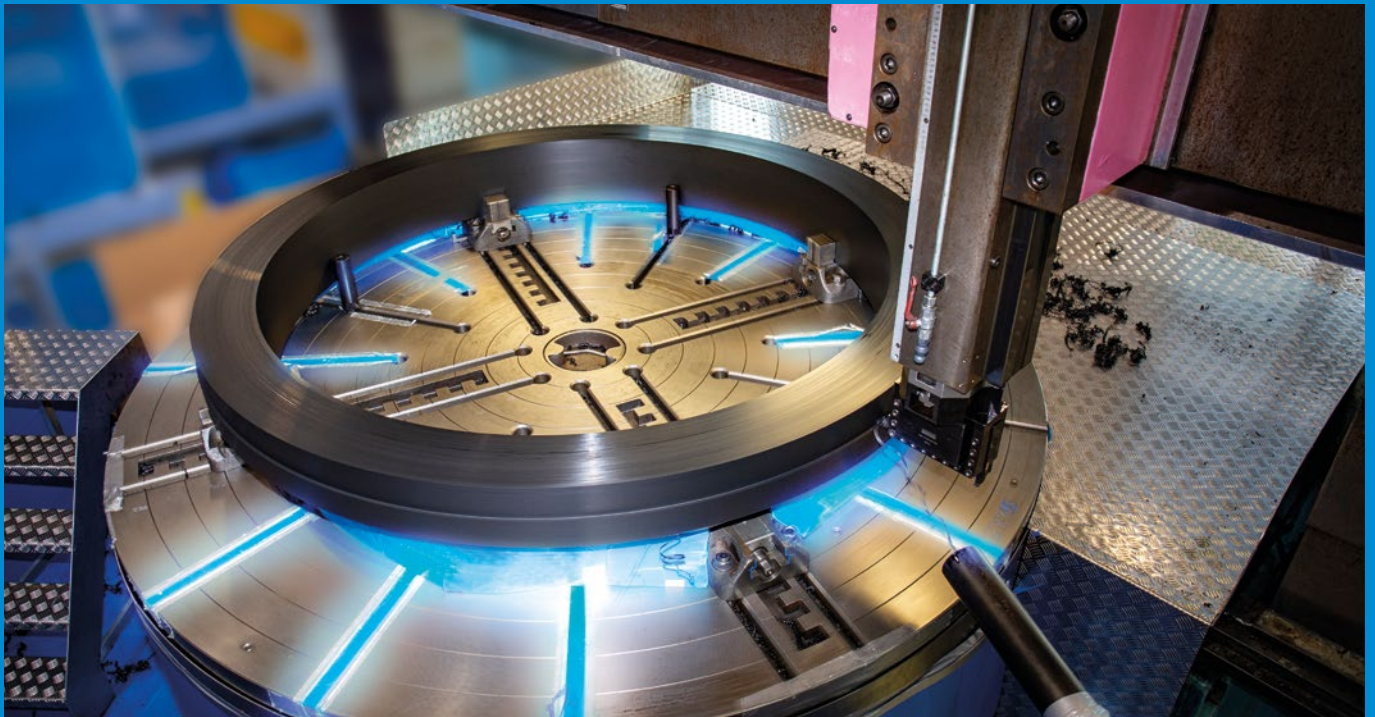
In exhaustive cycles that include abrasion tests, rigorous leak tests and bursting-pressure tests, our products are tested under conditions vastly harsher than those encountered in real-world operation. These huge safety margins allow AGRU users to rely one hundred percent on the quality, operational dependability, reliability and durability of our products.



Resource-saving production

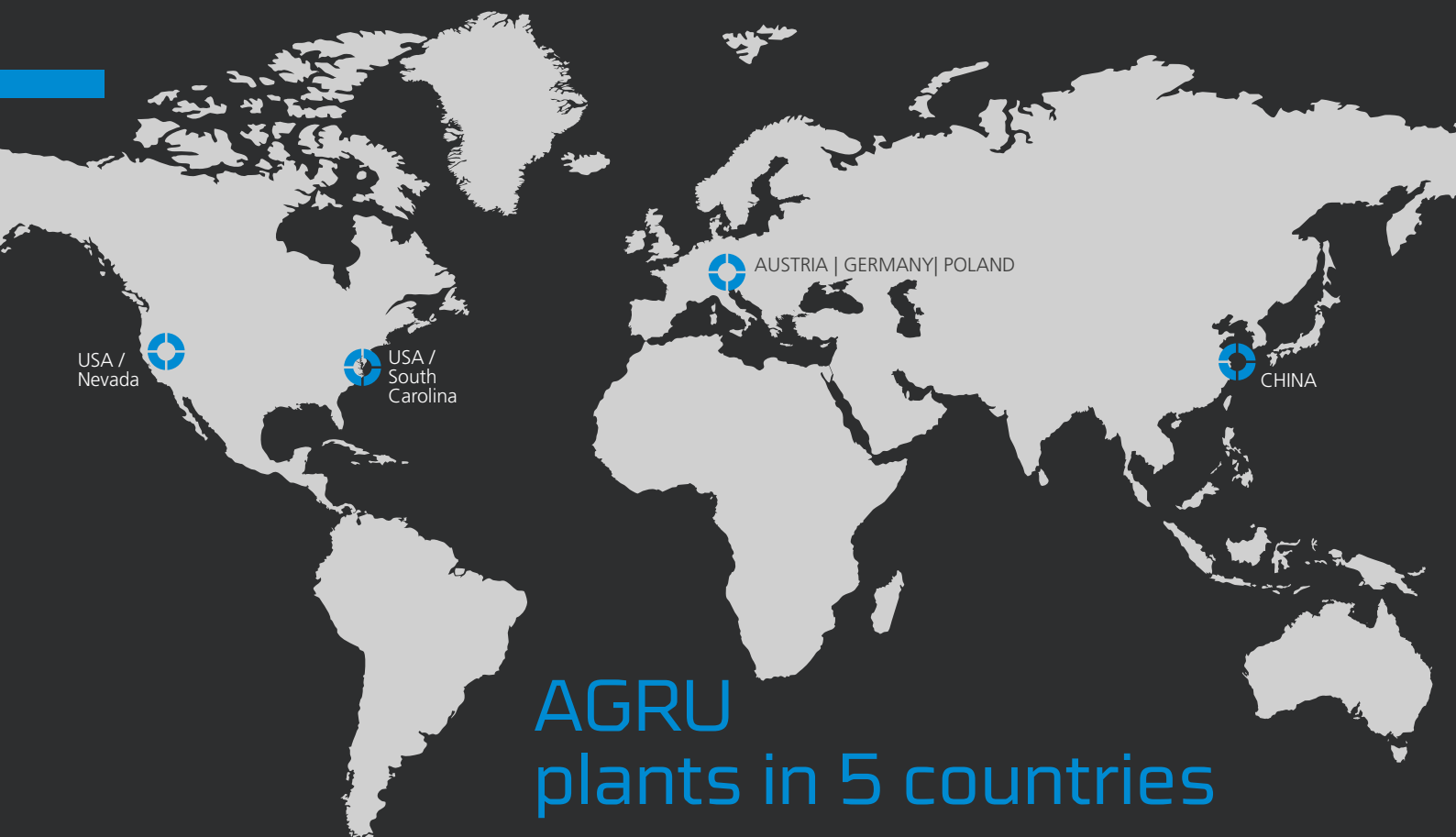
SUSTAINABILITY

Conserving resources in production is second nature to AGRU. At AGRU, environmental protection starts in the product development phase. Flow simulations and materials analyses are the basis for the design of fittings that save energy in operation and achieve the same rigidity with less polymer in the mould. Procurement processes that set store by high quality, resource-conserving manufacturing processes and extremely long lifespans contribute to sustainability in all AGRU products.



INTERNAL CIRCULAR ECONOMY

Process waste arisings are recycled in production, adding to sustainability. Residual amounts of polymers arising during the production process are sorted into their different fractions. So they can be returned to the materials cycle and put to good use.



AGRU plants in 5 countries

**AGRU KUNSTSTOFFTECHNIK
AUSTRIA**



**AGRU OBERFLÄCHENTECHNIK
AUSTRIA**



**AGRU-FRANK
GERMANY**



**TWS
POLAND**



**AGRU AMERICA
FERNLEY, NV/USA**



**AGRU AMERICA
GEORGETOWN, SC/USA**



**AGRU AMERICA
ANDREWS, SC/USA**



**AGRU AMERICA
CHARLESTON, SC/USA**



**TAICANG AGRU PLASTICS
CHINA**





The Plastics Experts.

APPLICATION-TECHNICAL CONSULTATION

Very often, the material used turns out to be definitive in terms of the ultimate profitability of an engineering solution. Only if the raw material is perfectly matched to the real-world conditions of use can physical toughness and resistance to chemicals and temperature effects be fully to specification. Application-specific material selection is one of AGRU's core competences. As a professional partner for everything associated with plastics, AGRU can point out the most economical solution for any problem, no matter how big the challenge.



PRECISION WELDING – FOR DURABLE JOINS

With a global reputation as an innovative plastics expert and reliable business partner, AGRU offers comprehensive know-how plus many years' experience in material selection and installation of its products. In particular in welding technology AGRU was and still is a pioneer who sets new benchmarks with ground-breaking innovations.



Research & development

NUMEROUS WORLDWIDE PATENTS AND CONTINUOUS APPLICATIONS UNDERLINE THE INNOVATIVE POWER OF THE GLOBAL AGRU GROUP.

WE CLAIM TO BE THE FIRST

Europe's first to produce fittings in injection moulds; the world's first to calender liners many meters wide. Once again the company has set new standards by building a clean-room plant for ultra-pure media piping systems.



1966: INJECTION MOULDING



1986: 7 M WIDE LINERS



2019: EXPANSION PLANT 5

Innovation from the applications specialist



INNOVATION IS THE KEY TO SUCCESS

AGRU's plastics engineers are focused on the future. Only those who today are dealing with the customer- and target-group-specific requirements of tomorrow will be successful in the future.

GROUND-BREAKING INNOVATIONS HAVE BEEN A HALLMARK OF AGRU SINCE ITS EARLIEST DAYS.

SERVICES

AGRU's strengths extend far beyond the processing of plastics as such. Depending on customer requirements, the company offers services including:

Applications-engineering consulting in all build phases, selection of materials, training in welding processes, field supervisors, rental and sale of welding machines, day-definite delivery and much more.





Plant 5 - a new industrial standard for cleanroom production



7.739 M² FLOOR SPACE



CLEANROOM CLASS 5



PURAD PIPING SYSTEM

One stop shopping



AGRULINE

PIPING SYSTEMS

PE 100/PE 100-RC piping systems for gas and potable water distribution as well as sewage water disposal. Trenchless and sandbed-free installation possible. Available in dimensions up to OD 3260 mm.



INDUSTRIE

PIPING SYSTEMS

Piping systems and double containment piping systems made of PP, HDPE-el, PPs, PPs-el, PVDF and ECTFE for industrial applications such as transport of aggressive media and contaminated sewage water.



PURAD

PIPING SYSTEMS

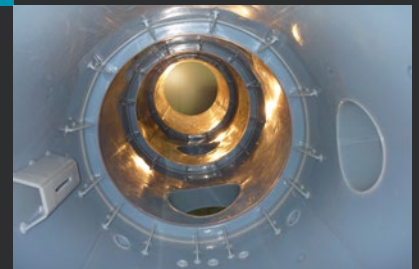
PVDF-UHP, PP-Pure, Polypure and ECTFE piping systems for the distribution of ultra-pure-water in semiconductor, pharmaceutical and food industry.



CONCRETE PROTECTION

PROTECTIVE LINERS

Concrete protective liners and assembly profiles made of PE, PP, PVDF and ECTFE for the protection of your concrete structures from wear and chemical corrosion.



SEMI-FINISHED PRODUCTS

SHEETS, BARS, BLOCKS, RODS ...

Sheets, bars, blocks, liner pipes welding rods and fittings made of PP, PE, PPs, PPs-el, HDPE, HDPE-el, PVDF, ECTFE, FEP and PFA for the manufacturing of tanks and for use in apparatus engineering.



AGRUAIR

PIPING SYSTEMS

AGRUAIR is a pressurized air system made of PE, that withstands loads up to 16 bar and which is available in outer diameters between 20 and 110 mm.



LINING SYSTEMS

GEOMEMBRANES

Geomembranes made of HDPE, VLDPE, LLDPE and FPP as well as drainage systems made of PE and PP for the use in landfills, tunnels, ponds, hydraulic engineering.



WELDING

WELDING SYSTEMS

Welding machines in various dimensions for professional infrared-, butt- and induction welding.

AGRULINE

THE USER-FRIENDLY
PE 100-RC PIPING SYSTEM

ONE STOP SHOPPING

Pipes and fittings from one factory
for maximum accuracy of fit

MAINTENANCE FREE PIPEWORK

Welded joints and PE 100-RC ensure
high operational reliability

HIGH ECONOMIC EFFICIENCY

Simple assembly, high quality and
long service lives

CERTIFIED MATERIALS

Raw materials in accordance to
PE 100+ Association guidelines

MULTIFUNCTIONAL SYSTEM

For the distribution of gas and potable
water and the disposal of sewage



PIPES AND LARGE DIAMETER PIPES



FITTINGS

INDUSTRIAL

PIPING SYSTEMS FOR INDUSTRIAL APPLICATIONS

FAST & EASY INSTALLATION

Pipes, fittings and customized solutions perfectly harmonized

MAINTENANCE FREE PIPEWORK

Welded joints and materials for high operational reliability

DOUBLE OPERATIONAL SAFETY

The compact Poly-Flo double containment piping system is highly reliable

HIGH MEDIA RESISTANCE

Pipes and fittings made from PE 100-RC/PP/PVDF/ECTFE

EXPERTISE IN PLASTICS

Decades of experience in plastics processing, research & development



PE-el PIPING SYSTEM



DOUBLE CONTAINMENT PIPING SYSTEM



FLUOROPLASTIC SYSTEM

PURAD

HIGH PURITY PIPING SYSTEMS

HIGHEST PRODUCT PURITY

Production of all system components
in ISO class 5 cleanrooms

ONE STOP SHOPPING

Pipes and fittings from one factory
for highest performance

UNIVERSAL APPLICABILITY

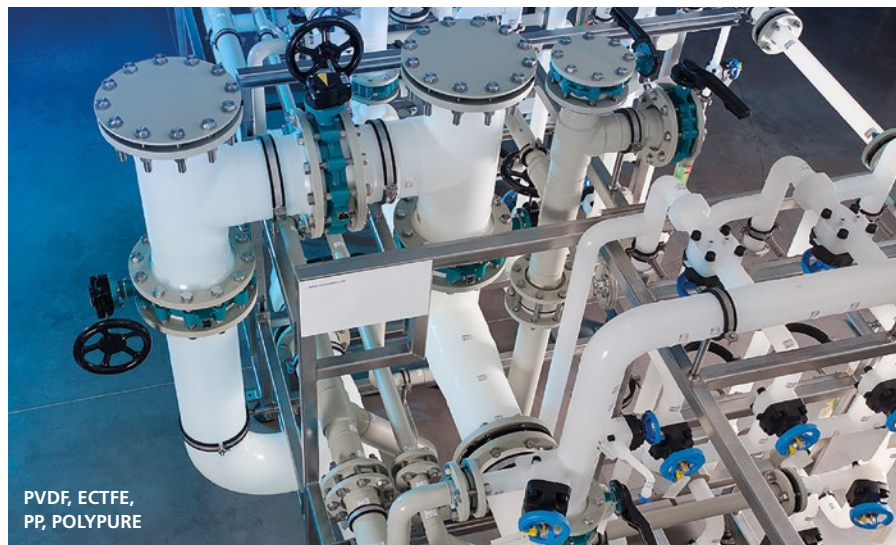
Perfectly adjusted system components
in PVDF UHP, ECTFE, PP Pure, PP nature

LONG-TERM RELIABILITY

Exclusive processing of selected
premium thermoplastics

EXPERTISE IN PLASTICS

Decades of experience in plastics
processing, research & development



CONCRETE PROTECTION

LONGER SERVICE LIFE FOR CONCRETE BUILDINGS

FIRMLY SEALED SURFACES

Corrosion protection and sealing made of chemically stable plastics

FOR EVERY REQUIREMENT

Wide range of materials available (PE, PP, PVDF, ECTFE)

HIGH ECONOMIC EFFICIENCY

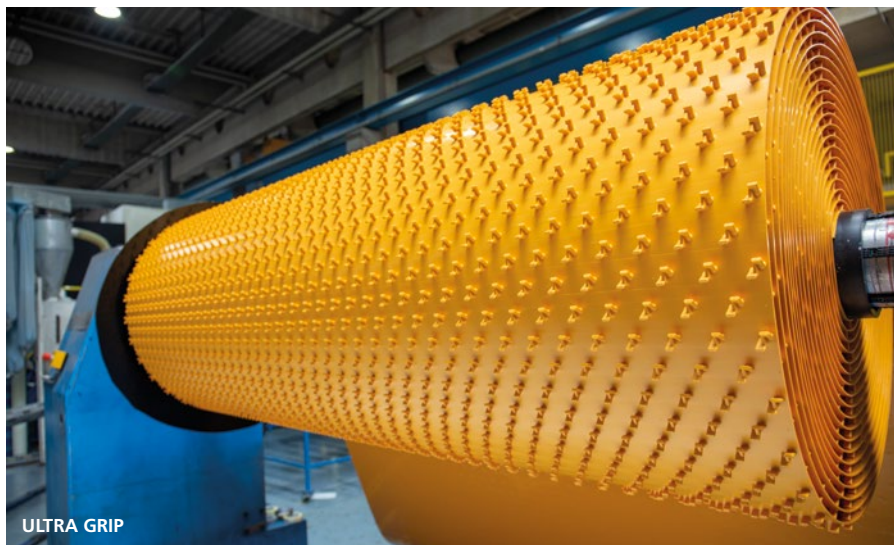
Simple assembly, high quality and long service life

HIGH OPERATING RELIABILITY

Best weldability ensures maximum tightness

EXPERTISE IN PLASTICS

Decades of experience in plastics processing, research & development



SEMI-FINISHED PRODUCTS

MADE FROM PE, PP, PVDF, ECTFE, FEP, PFA

HIGHEST MEDIA RESISTANCE

A stable polymer is for each chemical application available

LESS OPERATING COSTS

Due to excellent material properties and extended maintenance intervals

ONE STOP SHOPPING

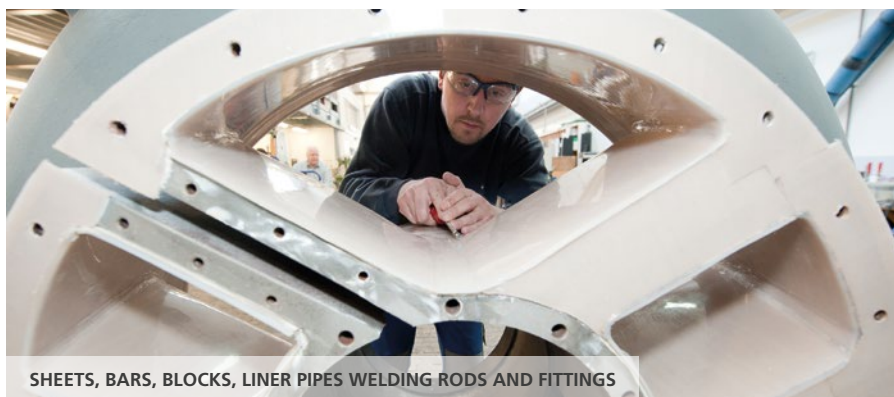
Comprehensive semi-finished product portfolio and extensive stock-keeping

CONSISTENTLY HIGH QUALITY

Raw material specifications, cutting-edge production & quality assurance

FABRIC BACKINGS

Chemically resistant fabrics made of various materials



SHEETS, BARS, BLOCKS, LINER PIPES WELDING RODS AND FITTINGS

LINING SYSTEMS

GEOMEMBRANES

CORROSION PROTECTION

Tunnel liners protect the inner concrete shell from aggressive mountain water

FOR SOIL & GROUNDWATER

For mining, water and landfilling, liquid manure & retention basins

ONE STOP SHOPPING

Lining systems, water stop profiles, perforated pipes, discs available

PROVEN QUALITY PRODUCTS

AGRU Lining systems are in compliance with many international standards

HIGH SUPPLY CAPABILITY

Global distribution network, high capacities

PERFORATED PIPES AND ACCESSORIES



GEOMEMBRANES



TUNNEL LINERS

WELDING

STATE OF THE ART WELDING
TECHNOLOGY FROM AGRU

BEADLESS WELDING

Fully automated welding process
and documentation

CONTACTLESS WELDING

Infrared technology for highest purity
with and without bead

BUTT WELDING

For pipe diameters up to OD 3,500 mm

INDUCTION WELDING

For concrete protective liners,
geomembranes and piping systems



INFRARED WELDING



INDUCTION WELDING



BEADLESS
WELDING



BUTT WELDING



LARGE DIAMETER BUTT WELDING

CUSTOM PARTS

MACHINED FOR
A PERFECT FIT

TAILOR-MADE SOLUTIONS

Tailored entirely to the specific requirements of your business

ONE STOP SHOPPING

Application consulting, specific design and production

HIGH ECONOMICAL EFFICIENCY

Cost-effective fabrication of technically sophisticated components

VARIETY OF MATERIALS

Individual choice of material according to your needs

HIGH PRODUCTION QUALITY

Semi-finished products and finished parts from the same plant



CUSTOMIZED FITTINGS



XXL FITTINGS

References worldwide



RECORD-BREAKING
HDD-INSTALLATION
OD 1400 MM



CONCRETE PROTECTION
FOR WASTEWATER TUNNEL



DESALINATION



PFA SHEETS
FOR CENTRIFUGE



References worldwide

SEA INSTALLATION
XXL PIPES

XXL PIPES FOR
SEA WATER INTAKE



PIPING SYSTEM
FOR THE WORLD'S
LARGEST INDOOR
WATERFALL

References worldwide



CONCRETE PROTECTION
FOR SEWAGE PLANT



SEAWATER INTAKE PIPELINE
FOR DESALINATION PLANT



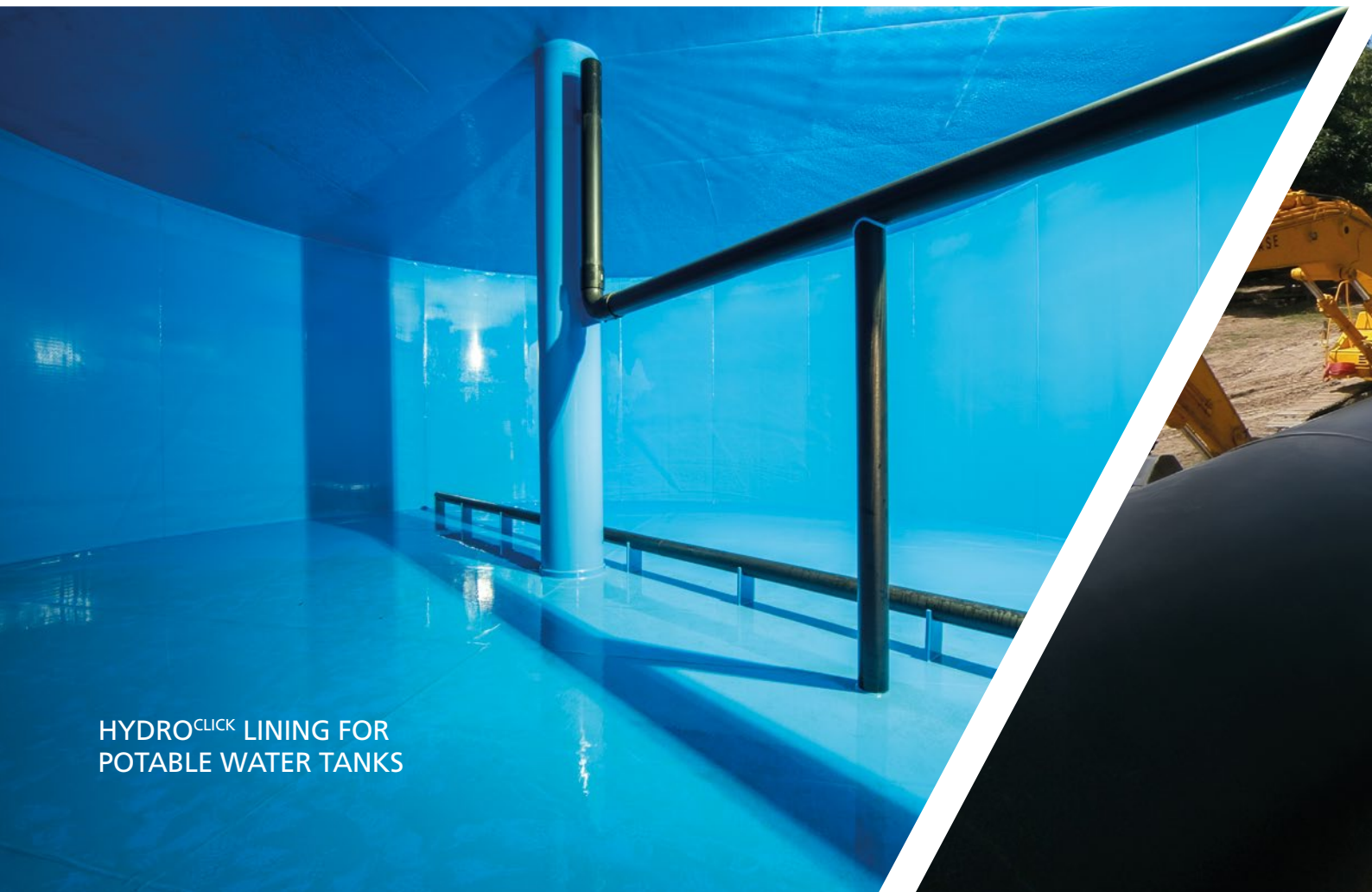
GEOMEMBRANES
FOR STORAGE POND

References
worldwide



ULTRA PURE
WATER PLANT

HYDRO^{CLICK} LINING FOR
POTABLE WATER TANKS





XXL PIPES FOR
COOLING WATER INTAKE



ONSHORE INSTALLATION
XXL PIPE

References worldwide

SURELINE III PIPES
WITH PROTECTIVE LAYER





TRENCHLESS REHABILITATION



The Plastics Experts.

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