



# The Plastics Experts.





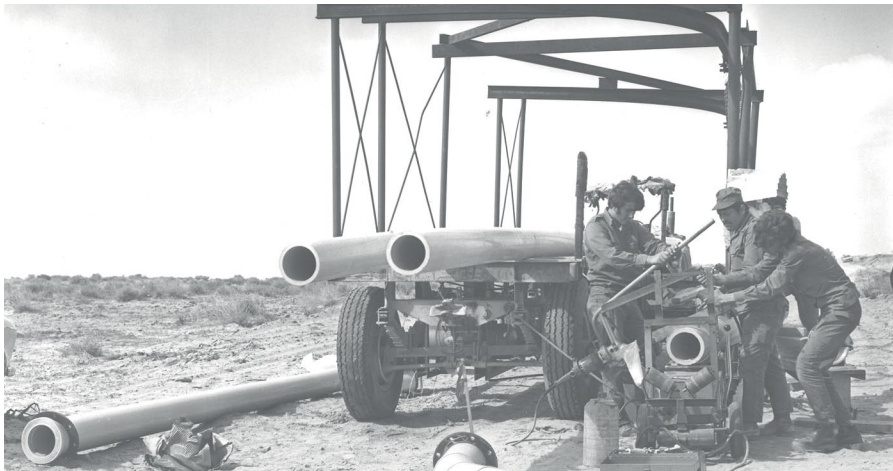


# AGRU

## Corporate Mission

### VISION

AGRU is established as the world's most important supplier for high-quality products made from engineering plastics. Resource conservation and environmentally sensitive decisions remain top of mind in all our business endeavors. This is why customers around the world continue to trust AGRU's plastics expertise.



### SUCCESSFUL SINCE 1948

The AGRU success story has been unfolding now for seven decades. Founded in 1948 by Alois Gruber Sr., the company has become one of the world's most important suppliers for lining systems made from engineering plastics, pipe and fittings systems, concrete protection liners and semi-finished products.

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





## MISSION

Our mission: To become the world's most reliable, client-focused supplier of geosynthetic and thermoplastic solutions.

As an experienced supplier, we now offer everything from semi-finished products to the largest diameter piping solutions in the western hemisphere. Our products meet and exceed the challenges of thousands of applications, and continue to be innovated. We stand for the maxims of uncompromising quality, outstanding customer service and operational dependability. We implement custom solutions with the highest flexibility and precision. Our dedicated employees, the true plastics experts, make AGRU successful globally.

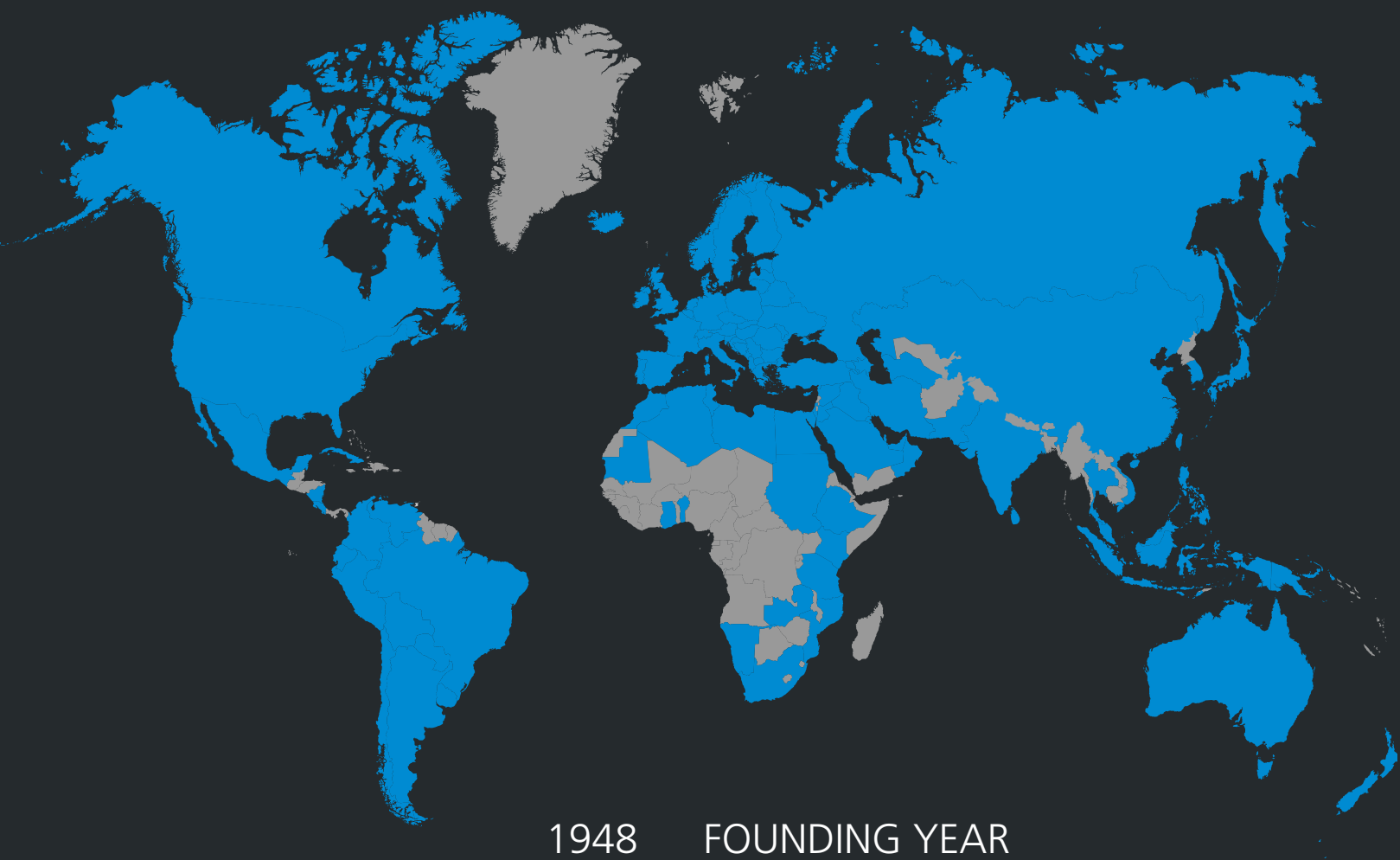


## THE PLASTICS EXPERTS.


With our extensive competence in engineered plastics and tailored solutions, AGRU is present in virtually every sector of industry. Our products have a wide range of possibilities, just as the requirements of our customers are diverse. You're likely to find our products where durability, dependability, cost certainty and versatility are essential.

# AGRU

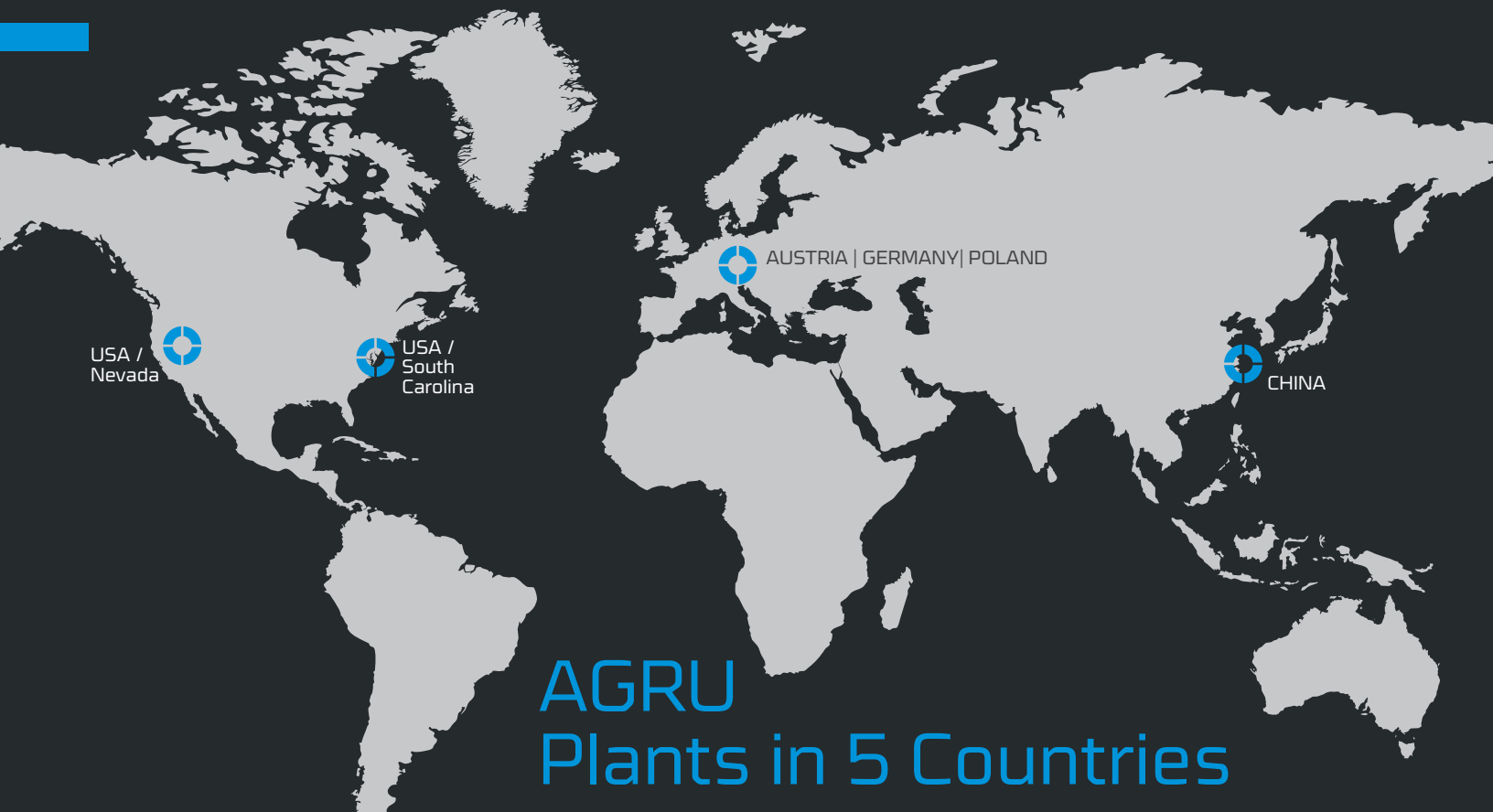
## at a glance



1948	FOUNDING YEAR
6	CONTINENTS
100	COUNTRIES
150	DISTRIBUTION SITES
1140	EMPLOYEES
100%	CUSTOMER VALUE

 AGRU Customers





USA /  
Nevada

USA /  
South  
Carolina

AUSTRIA | GERMANY | POLAND

CHINA

# 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







# AGRU America HQ, Georgetown, SC

OPENED IN 1996 WITH PREVIOUS HEADQUARTERS OPENED IN BOSTON, MA





GEORGETOWN PLANT



ANDREWS PLANT

OPENED IN 2012





# Applications

- COAL COMBUSTION RESIDUALS
- CIVIL ENGINEERING
- WASTE CLOSURE & CONTAINMENT
- ENERGY OIL & GAS
- ENVIRONMENTAL
- MINING
- TUNNELS
- WATER & WASTEWATER



# AGRU

## Customer Orientation

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

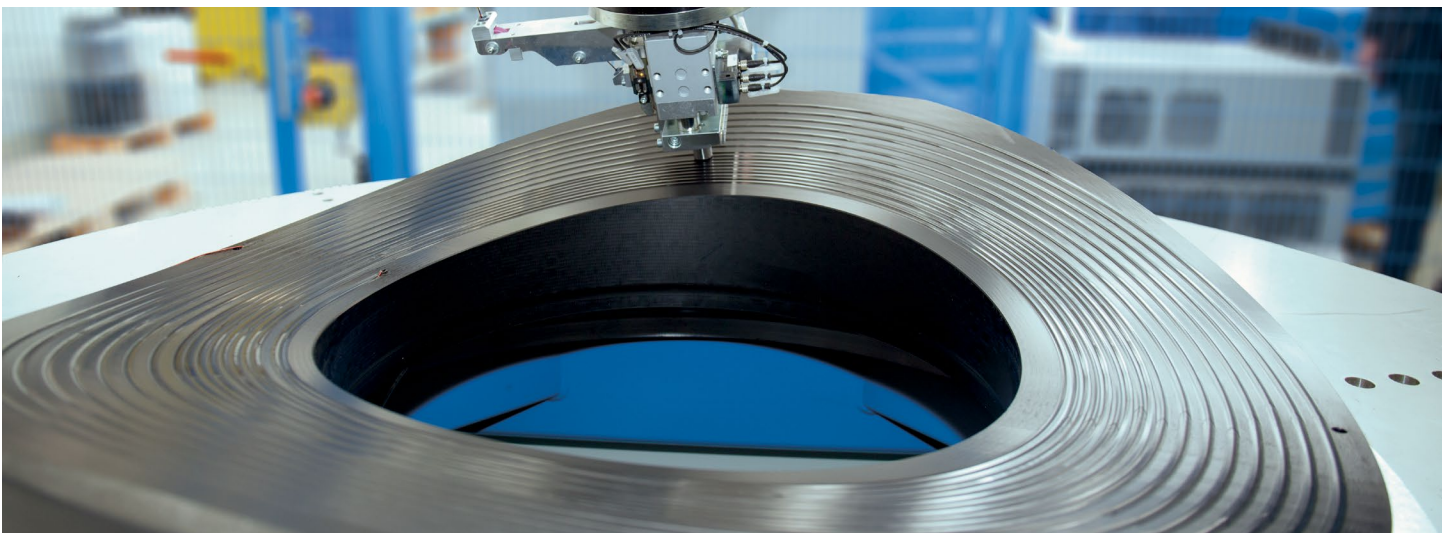


### ALOIS GRUBER

AGRU is an acronym derived from the name of Alois Gruber, majority owner and CEO. He is characterized by clear directives and integrity. AGRU customers appreciate the extraordinary flexibility made possible by his leadership, just as they appreciate the reliability of the products. As a family-owned company, AGRU is very aware of its responsibility to customers, employees and the environment.

### MEETING AND EXCEEDING EXPECTATIONS

AGRU has built a reputation for efficiency, being cost-effective and with flexible. It takes customer-focused solutions, the ability to think outside the box and decades of hands-on experience.





# Trailblazing the Plastics Industry

## QUALITY

Our maxims are uncompromising quality, outstanding customer service and operational dependability. Our products stand behind over 50 years of expertise. This lifetime of experience contributes to our application-oriented innovation, high-tech production and outstanding service and logistics performance.

## RELIABILITY

Our materials, technologies and products -- plus a worldwide network of partners -- all contribute to making AGRU a leading supplier of geosynthetic and thermoplastic solutions. For large-scale projects and special solutions in particular, AGRU offers customers a one-stop shop.





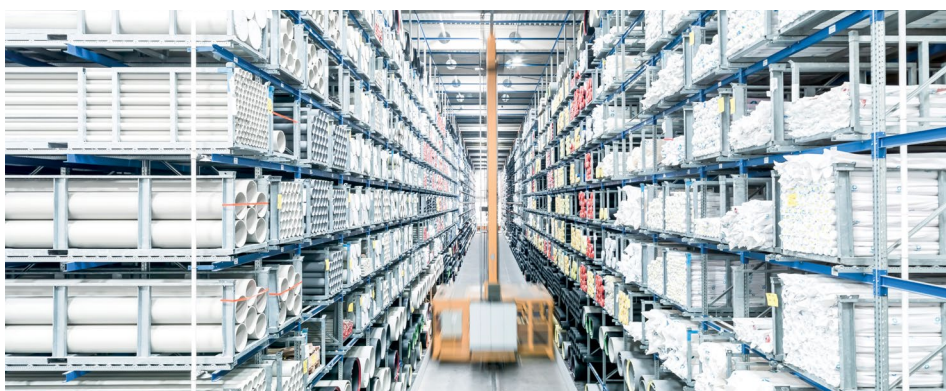


# AGRU

## A Trusted Partner



GLOBAL LOGISTIC  
OPERATION



VAST STORAGE  
AREAS





# AGRU Production







## INNOVATING TECHNOLOGY

Part and parcel of AGRU's guarantee are innovative products, streamlined applications and optimized results. This leadership is represented across the globe. Our technological edge means that AGRU solutions are consistently among the best in their field.

## MANUFACTURING EXPERTISE

Our highest priorities for our customers are quality and cost. It is most important that our customers benefit from our state-of-the-art products at unbeatable price-performance ratios. Our diverse products include innovative technologies ranging from injection moulding to thermoplastics extrusion.

## PRODUCTIVITY

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





# Top-grade Fittings

## MAXIMUM CUSTOMER BENEFIT

AGRU medium-retaining pipe fittings are hallmarked by their uncompromising precision, robustness and durability. For us, functionality and cost-effectiveness go handinhand. 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

Our products are tested under harsher conditions than realistically possible. Every product follows exhaustive cycles of abrasion, leak and burst-pressure testing, which have produced a wide safety margin. This means you can completely rely on our products to be quality, dependable, reliable and durable.



# Resource-saving Production

## SUSTAINABILITY

Conserving resources is second nature to us. Our concern for the environment begins during the product-development phase, and flow simulations and material analysis are the foundation for product design. Our resource-conserving manufacturing processes and long product lifespans contribute to sustainability in all AGRU products.







## The Plastics Experts.



### PRECISION WELDING – FOR DURABLE JOINS

As globally-known plastics experts, AGRU partners with its customers to provide comprehensive knowhow and expertise in product installation. In particular, our welding technology has continued as a pioneer that sets new benchmarks with ground-breaking innovations.

### TECHNICAL CONSULTATION FOR EXTREME APPLICATIONS

The profitability of a solution is often dependent on the products used. The raw material must perfectly match the real-world conditions before chemical and temperature resistance can be achieved. Our application-specific materials are our core competency. As a professional partner of everything related to engineered plastics, AGRU can provide the most economical solution to any problem, no matter the challenge.





# Research & Development

**175 APPLICATIONS**

**97 GRANTED PATENTS**

## WE CLAIM TO BE THE FIRST

AGRU is Europe's first producer of injection-moulded fittings, the world's first producer of calender liners and, once again, sets new standards for building a clean-room plant for pure media piping systems.



**1966: INJECTION MOULDING**



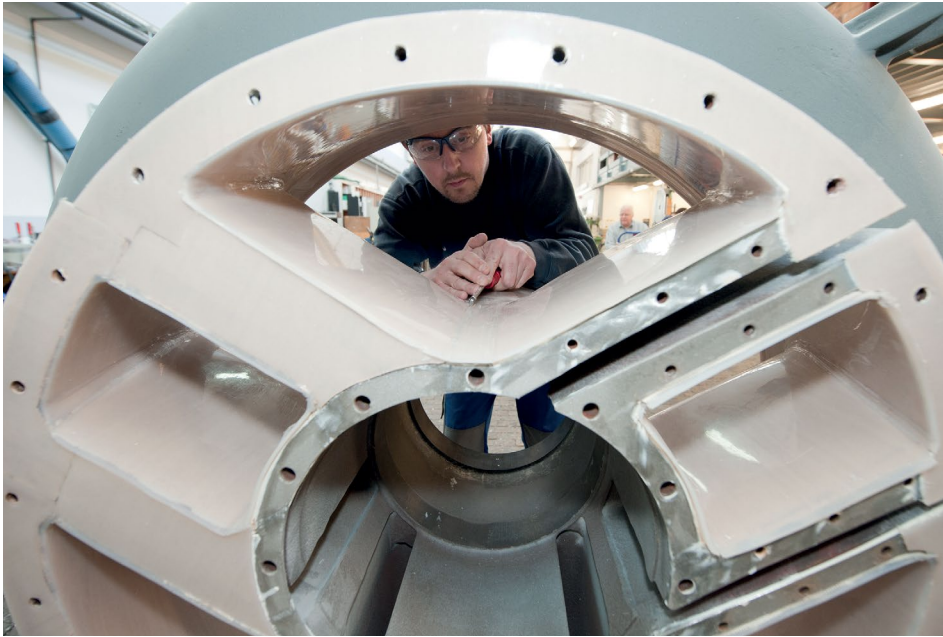
**1986: 23 FT WIDE LINERS**



**2016: CLEANROOM PLANT**



# Innovation From the Applications Specialist



## INNOVATION IS THE KEY TO SUCCESS

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

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

## SERVICES

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

Application-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.







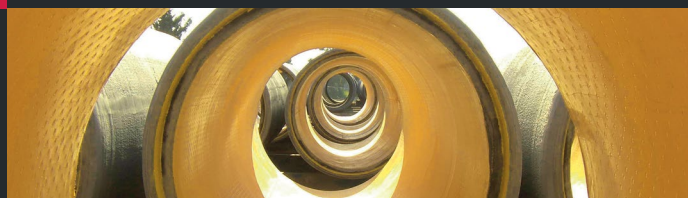
# One Stop Shopping



## PIPE & FITTING

### SYSTEMS

PE 100 piping systems for gas and potable water distribution as well as sewage water disposal. PE 100-RC piping systems for trenchless and sandbed-free installation available in dimensions up to OD 2500 mm.



## 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

### SEMI-FINISHED PRODUCTS

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



## LINING SYSTEMS

### LINER / GCL / GEOCOMPOSITE / TEXTILE / TUNNELS

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.



# PIPE & FITTING SYSTEMS

THE USER-FRIENDLY  
PE 100 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





# 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

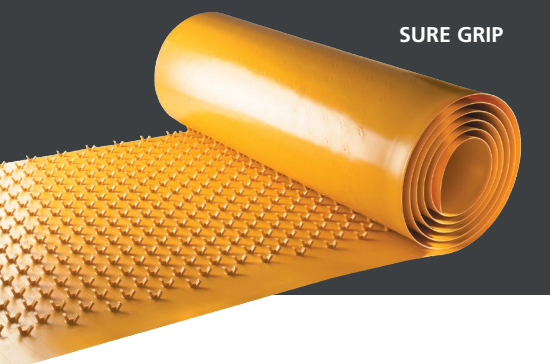
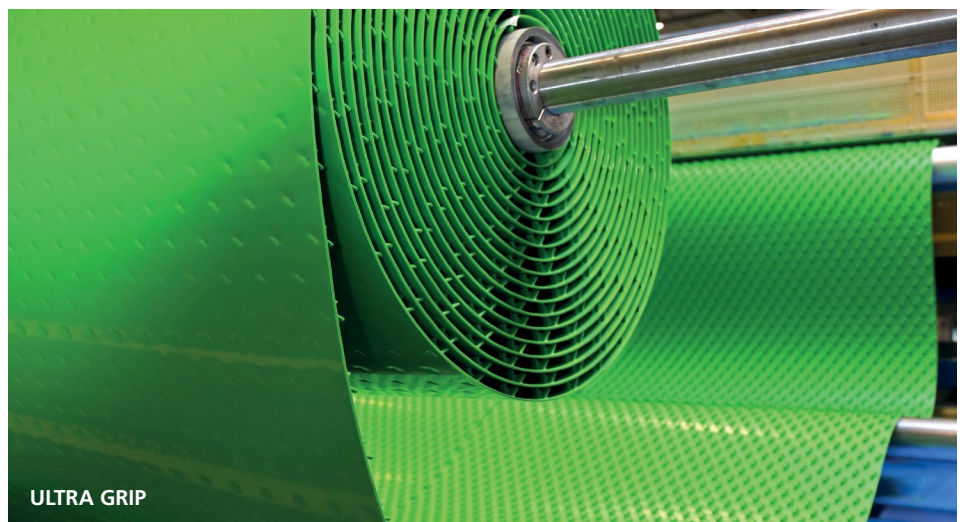
Simple assembly, high quality and  
long service life

## 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

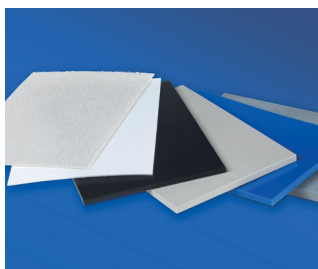
Comprehensive semi-finished product portfolio and extensive stock-keeping

## CONSISTENTLY HIGH QUALITY

Raw material specifications, cutting-edge production & quality assurance

## FABRIC BACKINGS

Chemically resistant fabrics made of various materials



SHEETS



BARS



WELDING RODS





# LINING SYSTEMS

LINER / GCL /  
GEOCOMPOSITE / TEXTILE /  
TUNNEL

## 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



# 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

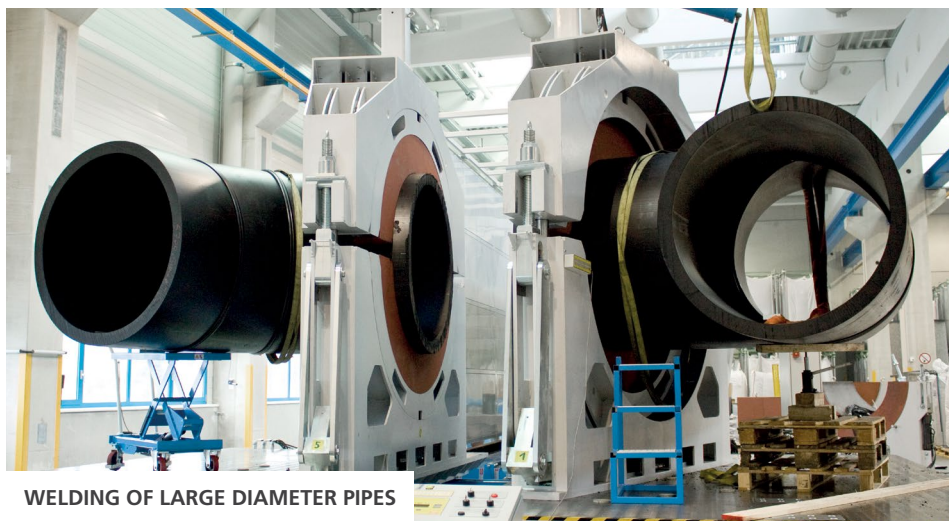
Individual choice of material according to your needs

## HIGH PRODUCTION QUALITY

Semi-finished products and finished parts from the same plant



PIPES & FITTINGS



WELDING OF LARGE DIAMETER PIPES





## THE PLASTICS EXPERTS.







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