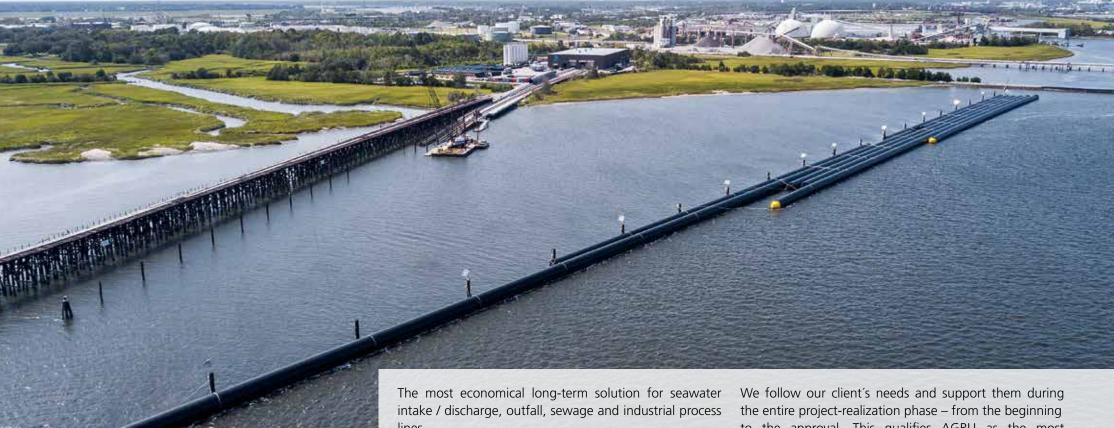


AGRU PE 100 (-RC) XXL piping systems



lines.

Two state-of-the-art production plants for pipes and fittings, sophisticated welding technology, extensive know-how in engineering and logistics. This is just one part of the AGRU service, which provides a customerrelated one-stop shopping solution.

to the approval. This qualifies AGRU as the most experienced and reliable EPC partner.











ISO 9001

45001

12201

F714

Watch the movie:



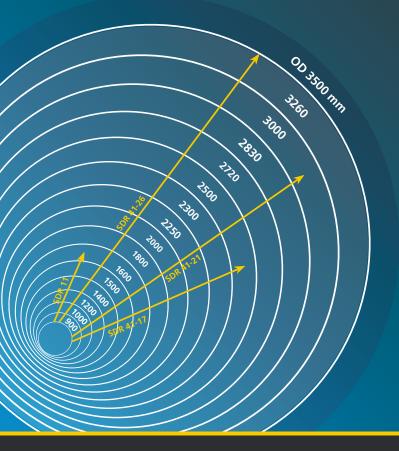


We provide system solutions

AGRU provides the full dimension range according to current standards. Pipes are produced project specific with seamless lengths up to 600 m.

PIPE SUPPLY RANGE

Non-"standard" dimensions can be produced on demand.





production facility, which specializes in custom XXL solutions to perfectly meet your needs. With the largest machining capacity in Austria, this facility is equipped to meet the highest standards of precision and efficiency, enabling the machining of very large and heavy plastic



RAW MATERIAL

High-quality resins (including well dispersed high-grade additives) are used for AGRU XXL Piping Systems which are in conformance to both, PE 100 (-RC) and PE 4710 requirements.



PRODUCTION TECHNOLOGY – DEVELOPED BY AGRU

Due to ongoing innovation in production technology, AGRU expands its leading position for XXL piping systems and is now producing the world's largest solid wall extruded PE 100 (-RC) / PE 4710 pressure pipe.



UNCOMPROMISING EXCELLENT QUALITY

AGRU implements stringent quality control, that exceeds international standards. Additionally, each product produced is fully documented and traceable along the entire supply chain – from raw material to the final product.



Fitting supply range

FLANGE COMPONENTS

AGRU provides the complete range for durable flange connections including:

- EPDM gaskets with steel inserts
- Backing rings / blind flanges in various steel qualities
- Bolt sets in various steel qualities (screws, nuts, washers)

AGRU provides a complete system solution. Fittings are available up to OD 3500 mm acc. to the respective pipe SDR.



















Sweep bends	Bend 11° - 90°	Tee	Reduced Tee	Stub Flange	Reducer	End Cap	Toploadsaddle	E-Coupler
OD [mm]	OD [mm]	OD [mm]	OD [mm]	OD [mm]	OD [mm]	OD [mm]	OD / branch Ø [mm]	OD [mm]
800	800	800	800 /≤700	800	800/630/800/710	800	800 / ≤ 500	800
900	900	900	900 /≤800	900	900/710/900/800	900	900 / ≤ 500	900
1000	1000	1000	1000 /≤900	1000	1000/900	1000	1000 / ≤ 500	1000
	1200	1200	1200 / ≤ 1000	1200	1200/1000	1200	1200 / ≤710	1200
	1400	1400	1400 / ≤ 1200	1400	1400/1200		1400 / ≤710	1400
	1500	1500	1500 / ≤1200	1500	1500/1200		1500 / ≤7100	1500
	1600	1600	1600 / ≤1400	1600	1600/1400		1600 / ≤900	1600
	1800	1800	1800 / ≤1600	1800	1800/1600		1800 / ≤ 1000	1800
	2000	2000	2000 / ≤1800	2000	2000/1800		2000 / ≤ 1200	2000
	2250	2250	2250 / ≤2000	2250	2250/2000		2250 / ≤ 1200	2250
	2300	2300	2300 / ≤2000	2300	2300/2000		2300 / ≤ 1200	
	2500		2500 / ≤2250	2500	2500/2250		2500 / ≤ 1200	
	2720			2720			2720 / ≤ 1200	
	2830			2830			2830 / ≤ 1200	
	3000			3000			3000 / ≤ 1200	
	3260			3260			3260 / ≤1200	
	3500			3500			3500 / ≤1200	

Special dimensions on request. Smaller dimensions according to standard catalog.

From customized parts to the final product.

DESIGN, ENGINEERING, IN-HOUSE FABRICATION

Vast capabilities allow AGRU to provide tailor-made and timely solutions, all from a single source – this qualifies AGRU as the most valuable partner for EPC contractors!



















AGRU XXL electrofusion coupler

AGRU supplies large diameter bifilar electrofusion couplers which can conduct full pressure conform welds in tight spaces or are suitable for pipe repair situations.



COMPACT, FULLY PRESSURE CONFORM







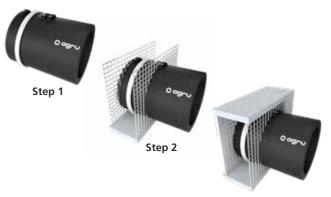




AGRU puddle flange

AGRU supplies special fittings for water tight transitions to buildings and other concrete structures.

PROJECT OPTIMIZED, WATER TIGHT



Step 3



Flange connections

AGRU supplies mechanical connections that enable detachable transitions to buildings and/or other pipe materials.

PROJECT OPTIMIZED, DETACHABLE, SAFE







Pipe branches

The spigot saddle system topload utilizes a specialized clamping system that offers an efficient and flexible solution to create branches that are electro-fusion welded to existing or new pipelines in on- or offshore locations.

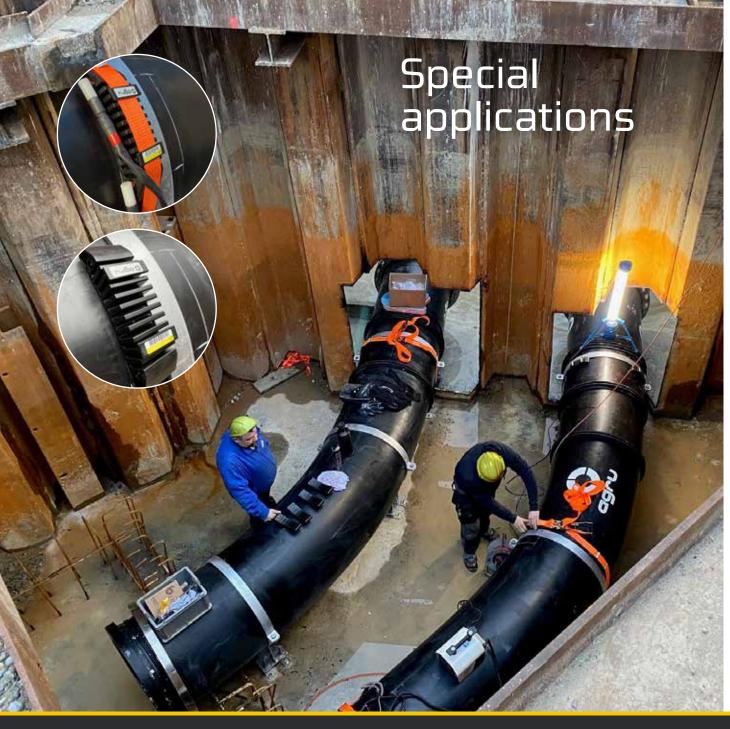
DESIGN-FLEXIBLE, SAFE











AGRU Flex Restraint

The AGRU Flex Restraint is a flexible bar for electro-socket welding onto PE 100 (-RC) pressure pipes. This way, a rigid system by fixed points can be created that absorbs high forces to prevent axial movement.

This special fitting is placed onto the pipe with a tensioning belt and is homogeneously welded by electro-socket welding in accordance with AGRU installation guidelines, based on DVS 2207-1.

The AGRU Flex Restraint offers a strength of 40 kN in axial direction. If higher forces have to be absorbed, several Flex Restraints are to be distributed around the circumference.

APPLICATION:

- Create a rigid system by using AGRU Flex Restraints
- Fixing concrete ballast blocks
- Create wall anchors
- Secure offshore pipes during installation using concrete ballast blocks.



AGRU solution for chlorination pipes

PIPING SYSTEM FOR OFFSHORE PIPELINES

Incorrect marine fouling control through improper chlorination can result in heavy clogging and damage to the function of seawater intake.



AGRU CHLORINATION PIPING SYSTEM FOR OFFSHORE PIPELINES

AGRU chlorination piping system ECTFE or PE 100 (-RC) are designed to prevent Biofouling in offshore pipelines by injecting sodium hypochlorite into the intake pipeline preventing biofouling to settle.



















Logistics on demand



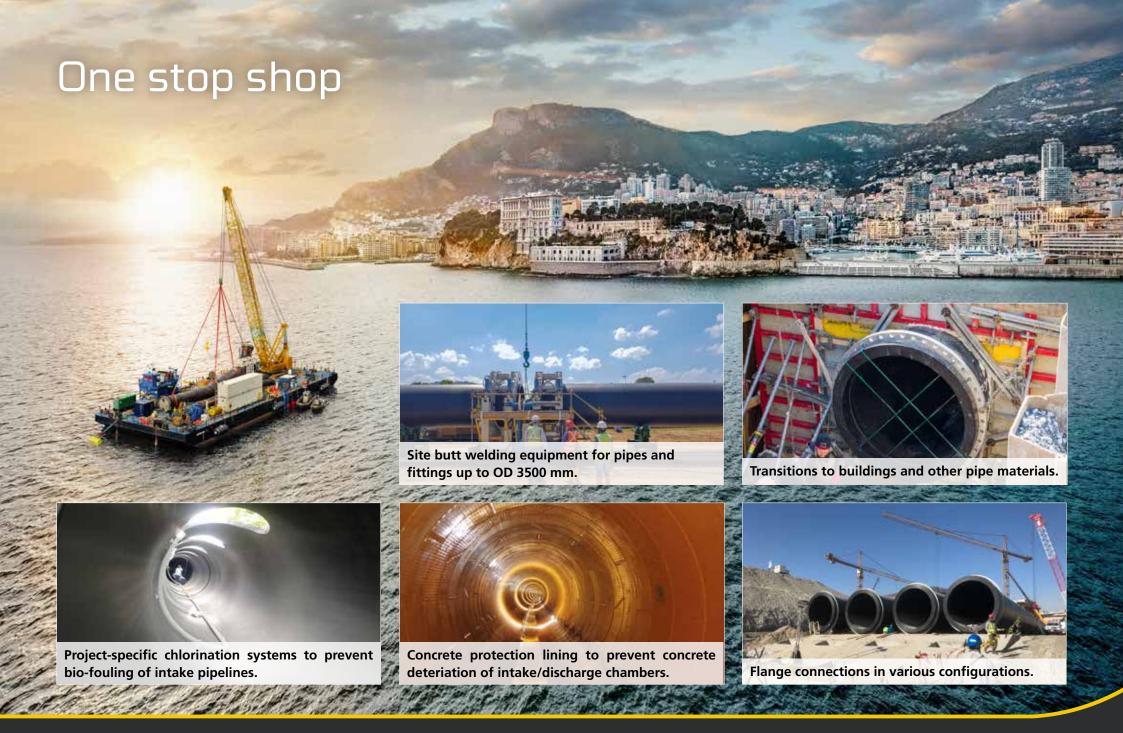
















CONSERVING WATER - HDPE PIPING BENEFITS

- Corrosion resistance
- Flexible
- Durable

- Low seismic vulnerability
- Low leakage rateLow biofilm formation potential







Offshore float and sink installation







Hydrogen

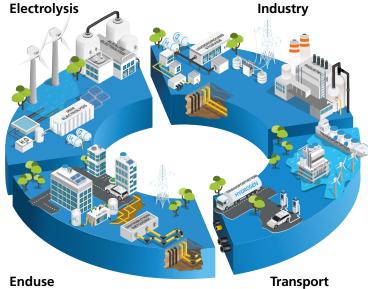
GREEN HYDROGEN PRODUCTION

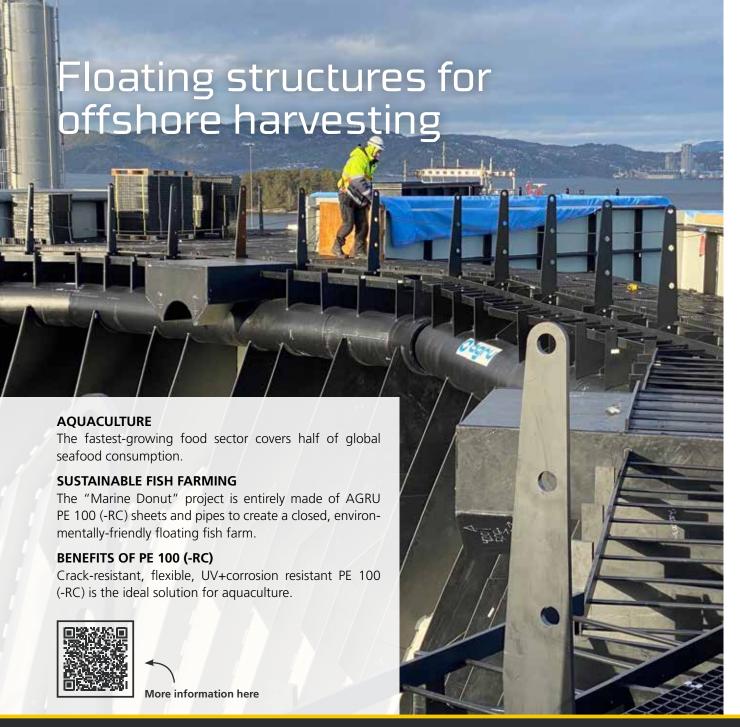
AGRU XXL pipes are ideal for supplying large volumes of water necessary for electrolysis in green hydrogen production.

For transporting gaseous hydrogen, AGRULINE pipes are the best choice. All components are certified as H2-ready for hydrogen or hydrogen-natural gas mixtures.

AGRU products offer a reliable solution for both the production and transportation of hydrogen, emphasizing their utility in green hydrogen systems.













AGRU - a global brand



The Plastics Experts.









