

The Plastics Experts.

PE1001

XXL Piping System

EXCEPTIONAL IN DIMENSION AND QUALITY 2

3260

BIOD

2830

2720

500

500mm

AGRU PE 100 (-RC) XXL Piping System

XXL PIPE PRODUCTION FACILITY



The most economical long-term solution for seawater intake / discharge, outfall, sewage and industrial process 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 customer-related one-stop shopping solution.

We follow our client's needs and support them during the entire projectrealization phase – from the beginning to the approval. This qualifies AGRU as the most experienced and reliable EPC partner.



Polyethylene material of choice

COST AND TIME SAVING INSTALLATION

- Extremely flexible and lightweight
- Homogeneous and durable welding connections
- Allowing various installation methods
- Fast & safe offshore sinking process
- Reducing manpower on site
- UV resistant

EFFICIENT AND MAINTENANCE-FREE OPERATION

- Smooth surface, perfect flow characteristics Resistant against corrosion and abrasion Insensitive to pressure surges (up to 200% of the operating pressure) Physiologically safe Service life expectancy ≥ 100 years
- Fully recyclable



RAW MATERIAL

Only pre-compounded (including well dispersed high-grade additives) and virgin resins are used for AGRU XXL pipes which are in conformance to both, PE 100 (-RC) and PE 4710 requirements.



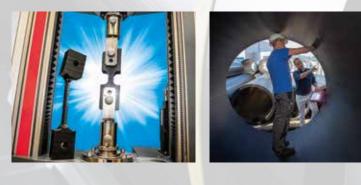
Pre-compounded (100% homogeneous dispersion)

EMERGING PRODUCTION TECHNOLOGY – DEVELOPED BY AGRU

Due to ongoing innovation in production technology, AGRU expands its leading position for large diameter piping systems and is now producing the world's largest extruded PE 100 (-RC) 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.



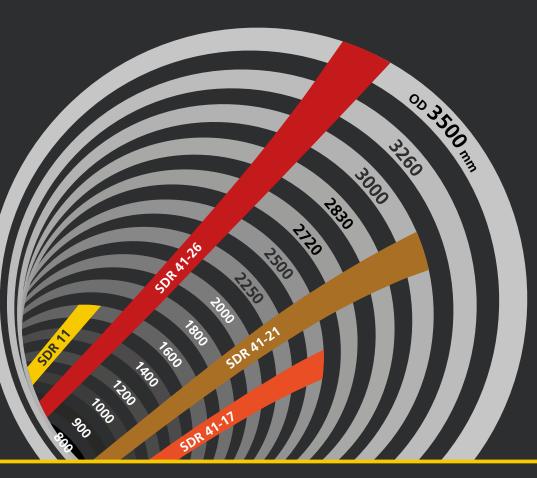
Valuable engineered



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







Fitting supply range

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

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)

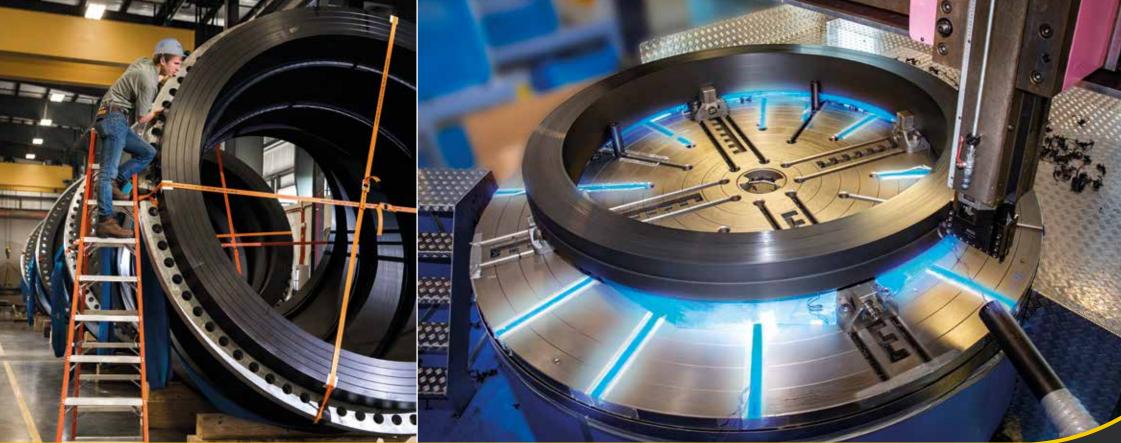


Realizing ideas from scratch to the final product:

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!









Proven and reliable jointing methods

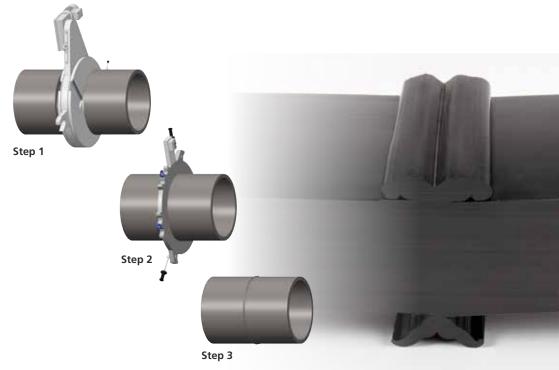
HEATED PLATE BUTT WELDING

Homogeneous welding connections across the entire wall thickness provides a monolithic system that maintains its full pressure rating without any weak points.

Long-term and proven welding method that is available for all dimensions!

CLEAN, FAST, SAFE

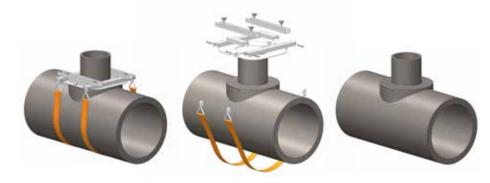
AGRU offers highly automated welding procedures with full documentation and traceability. This welding method requires less labor and keeps you one step ahead of any other fusion technology.



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







FLANGE CONNECTIONS

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

PROJECT OPTIMIZED; DETACHABLE, SAFE











Smart logistical solutions by AGRU

븳

能

出

WT215MT







TOWING TRANSPORT



Logistics on demand



ONSHORE PIPE STRING PREPARATION

WATERFRONT PIPE STRING PREPARATION



-



AGRU XXL PIPES on the seven seas!



AGRU SUPPLIES PIPE STRINGS UP TO 600 M LENGTH TO SITE LOCATIONS ANYWHERE IN THE WORLD

The Plastics Experts.





SITE BUTT WELDING EQUIPMENT FOR PIPES AND FITTINGS UP TO OD 3500 MM

TRANSITIONS TO BUILDINGS AND OTHER PIPE MATERIALS



One stop shop

PROJECT-SPECIFIC CHLORINATION SYSTEMS TO PREVENT BIO-FOULING ON INTAKE PIPELINES



FLANGE CONNECTIONS IN VARIOUS CONFIGURATIONS.

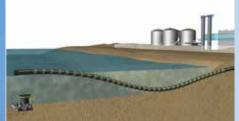


CONCRETE PROTECTION LINING TO PREVENT CONCRETE DETERIORATION ON INTAKE/DISCHARGE CHAMBERS



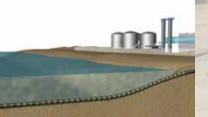
Offshore float and sink installation, made easy by the AGRU PE 100(-RC) Piping Systems



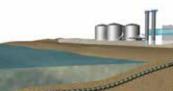


VALVES ARE OPENED AND WATER FLOWS INTO THE PIPE -CONTROLLED SINKING PROCESS IS PROGRESSING

and a statement



THE PIPE IS CONNECTED TO THE INTAKE STRUCTURE ON THE OCEAN GROUND



THE PIPE IS COVERED BY BACK-FILL MATERIAL TO PROTECT IT AND TO KEEP IT IN PLACE

Applications

Onshore











WASTE WATER / PROCESS COOLING / MINING / AGRICULTURE / MARICULTURE / REHABILITATION













POWER PLANTS / LNG PROCESS COOLING / DESALINATION / PROCESSED WASTE WATER



AGRU - a global brand



agru Kunststofftechnik Gesellschaft m.b.H. Ing.-Pesendorfer-Strasse 31 4540 Bad Hall, Austria Phone: +43 7258 7900 Fax: +43 7258 790 - 2850 office@agru.at