XXL Piping System
EXCEPTIONAL IN DIMENSION AND QUALITY
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 project-realization phase – from the beginning to the approval. This qualifies AGRU as the most experienced and reliable EPC partner.

ISO 9001 Quality management system
ISO 14001 Quality management system
ISO 45001 Occupational health and safety
EN 12201 Plastic piping systems for water supply
ISO 4427 Plastic piping systems for water supply

AGRU PE 100 (-RC)
XXL Piping System

XXL PIPE PRODUCTION FACILITY
Polyethylene - material of choice

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

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

Polyethylene - material of choice
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.

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.
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)

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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.

Step 1
Step 2
Step 3
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!
CONTAINER TRANSPORT

FLAT-RACK TRANSPORT

BREAK-BULK TRANSPORT

TOWING TRANSPORT

PIPE SPOOL PREPARATION

ONSHORE PIPE STRING PREPARATION

WATERFRONT PIPE STRING PREPARATION

LONG STRING INSTALLATION

Logistics on demand
AGRU XXL PIPES on the seven seas!

AGRU supplies pipe strings up to 600 m length to site locations anywhere in the world.
SITE BUTT WELDING EQUIPMENT FOR PIPES AND FITTINGS UP TO OD 3500 MM

TRANSITIONS TO BUILDINGS AND OTHER PIPE MATERIALS

FLANGE CONNECTIONS IN VARIOUS CONFIGURATIONS

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

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.
Applications

Onshore

Offshore

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

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