



# High Pressure Grouting Services

**Formshore Teknik Indonesia** delivers specialised offshore subsea high pressure grouting services tailored to the demands of marine infrastructure, oil and gas operations, and civil engineering projects. Our capabilities ensure precision, safety, and long-term durability for subsea assets and critical foundation systems.

Through an integrated services approach, Formshore combines engineering design, subsea survey input, grout material selection, and real-time operational monitoring to provide complete end-to-end grouting solutions.

All operations are conducted in accordance with international offshore standards (DNV, ISO, API) and are supported by experienced personnel, robust quality assurance, and strict safety protocols.

## Capabilities:

- Dam and Hydropower Projects - To fill voids, reduce seepage, and strengthen foundations.
- Tunnelling and Underground Works - To stabilize surrounding ground and prevent water ingress.
- Soil Stabilisation - To reduce permeability and increase soil strength.
- Shaft and Caisson Sealing - To control water inflow during excavation.
- Slope Stabilisation - To reinforce weak rock masses or soil slopes.
- Marine and Offshore Construction - To anchor and stabilize subsea structures.

## Equipment:

A typical spread for HP grouting operations would require the following. Note that all our equipment is housed in standard 20ft containers.

- HP Grouting Equipment Container complete with;
  - GMA1500-1200-E Turbo Mixer/Agitator
  - RISEN RG90 high pressure grout pump
- Modular Integrated Compressor & Generator Container complete with;
  - 150 kVA Generator
  - 390 CFM Air Compressor
- Workshop and Storage Container
- Compressive Strength Lab Container
- ISO Cement Silo 17m3 (required if using OPC cements)

**Cement Types:**

Cement types will be dependent on client requirements but may include:

- Densit / Ducorit mixed Ultra-High Performance Cementitious (UHPC) materials
  - OPC Types of Cement
- 

**Weights and Dimensions:**

- HP Grouting Equipment Container: (L) 6.058 (W) 2.438 (H) 2.591m, 8,500kg
- Compressor & Generator Container: (L) 6.058 (W) 2.438 (H) 2.591m, 5,500kg
- Workshop and Storage Container: (L) 6.058 (W) 2.438 (H) 2.591m, 5,000kg
- Compressive Strength Lab Container: (L) 6.058 (W) 2.438 (H) 2.591m, 2,500kg
- ISO Cement Silo 17m3: (L) 6.058 (W) 2.438 (H) 2.591m, 5,000kg