



## High Power, High Voltage, High Pressure, Fluid Filled for all Deepwater applications.

Hayward Tyler manufactured the first subsea electric motors in 1908 for marine salvage and continues to evolve the design for other subsea motor applications.

To meet the demands of complex operating subsea conditions, Hayward Tyler supply HV HP motors up to 5,500 kW. These low maintenance, long life solutions are meeting and exceeding expectations in diverse conditions, worldwide.

- Unparalleled in the field of deepwater motor technology
- The first to develop a subsea motor – almost 100 years of experience
- Collaboration on innovative projects
- 2500 kW at a depth of 1000m
- 935 kW at a depth of 2300m
- Designs to 5500 kW at depths to 3000m
- 350 kW at a depth of 500m

[www.haywardtyler.com](http://www.haywardtyler.com)



## Reliability

Subsea motors are all designed for 40,000 hours meantime between maintenance (MTBM). Typically the Hayward Tyler motors operate for 8 years between maintenance.

## Experience

Hayward Tyler subsea motors have been selected by companies that include: AGIP, Kvaerner, BP, Transocean and Shell – based upon their reputation for excellence in motor technology.

## Design

The motor design elements enable the motors to operate at depths of 3000m (10,000ft) and to powers of 5500 kW. These parameters accommodate most subsea projects.

## Development

Extensive research and development experience of custom builds and project led engineering, places Hayward Tyler as the ideal subsea partner.

## Scope

We are a proactive organisation capable of design, manufacture, engineering, installation and a global after sales service.

## Key Features

- Environmentally friendly water based lubrication
- Latest tilting pad bearing technology
- Bi-directional high thrust capacity
- Dual rotation option
- Alternative motor fluid fills available
- Pressure balanced at drive end
- Pressure - volume compensated system
- Winding cable selected for maximum life
- All moulded internal connections
- High tension penetrators proven to 725 bar
- Optional ROV friendly connectors
- Variable speed
- Duplex and Super Duplex SS wetted materials
- Pressure part design to BS5500/ASME VII Div1/ TRD as required

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## Services

Our global resource centres provide on going maintenance and support for all our Hayward Tyler products and those of other OEM's.

Our first class engineers offer a comprehensive range of options for pumps and motors, complemented by a vast spares warehouse, ensuring that your business processes are uninterrupted and running at optimum levels at all times.

For more information please visit our website.

## Quality Standards

- ISO 9001/2000
- First Point Assessment
- Achilles



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pushing the boundaries of motor technology