



# Future-proof your Rig

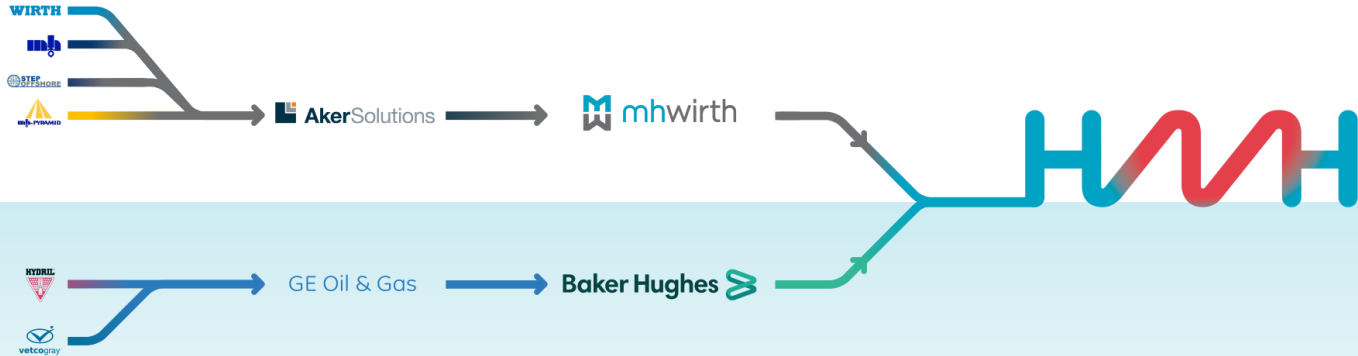
Riggvedlikehold 2024





# 125 Years Legacy of Excellence

Manufacturing industry-leading drilling equipment for more than 125 years.



**50+ Years**

Delivering  
Offshore Equipment



**125+ Years**

Delivering  
Onshore Equipment



**45+ Years**

Delivering  
Construction Equipment



**50+ Years**

Delivering  
Mining Equipment



**2100+**

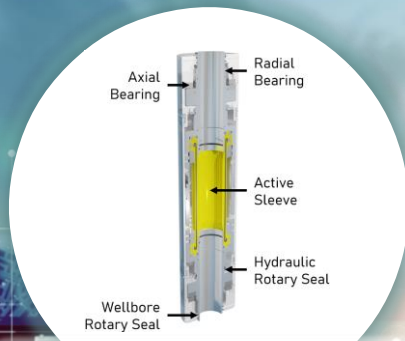
Employees  
Worldwide

# Innovating for the Rigs of the Future



## Electric BOP

- Reducing OPEX
- Lighter and smaller
- Greener drilling
- More reliable



## Open water drilling systems

- Reduce storage area
- Reduce handling requirements
- RCD design



## Robotics & Digital Future

- Material Handling Robots
- Cutting-edge Digital Solutions that revolutionize drilling operations



## Maintenance & Performance

- Drilling Lifecycle Services
- Certified supplier of maintenance solutions
- Performance optimization solutions for your asset

# Electric BOP & Riserless Drilling

Opex savings by removing hydraulics

Opex savings per year  
for the  
**DRILLING CONTRACTOR**

UP TO

~ **5 MUSD+**



Opex savings per year  
for the  
**OPERATOR**

UP TO

~ **22 MUSD+**

# HMH All-Electric BOP

## Key Benefits

### Opex Savings ~ 22 MUSD+ from reduced testing

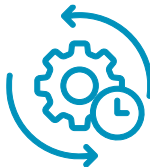
- “Micro-testing” increases availability
- Significantly fewer components = Improved Reliability
- Reduced wellhead fatigue and increased VDL
- Reduced vessel size for P&A/Capping applications
- Depth Independent



## Carbon Footprint Savings

### -4300+ tons CO2 per year from reduced Idle & Testing times (30days/~8% reduction)

- Fewer components/Extended life = Fewer replacements
- Less rig idle days while testing per year (-30days)
- Reduced transportation costs/emissions
- Zero emissions subsea:
  - No glycol/fluid mixing/filtration
  - No control fluid venting



REDUCED EMISSIONS

## Technical Readiness

### Wellbore and controls solutions from Legacy Hydril BOPs

- Proven Hydril Bodies & Rams (TRL-9)
- API Qualified Wellbore kit (TRL-9)
- Convert HMH controls to electric (TRL-6+)
- Actuator Drive Mechanisms (TRL-4)

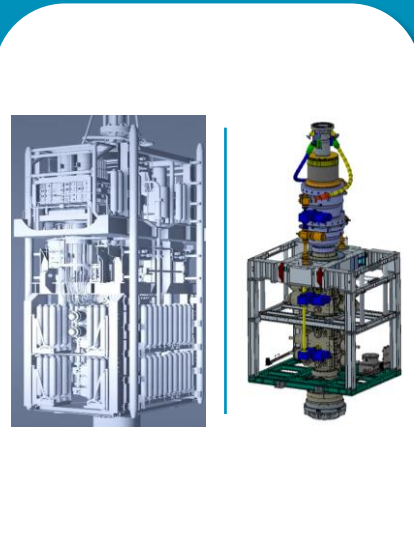


# Lighter, More Reliable, Simplified

Cost, Rig Design, Handling, and Wellhead Benefits\*



Surface equipment  
reduced ~75 Metric Tons



Subsea equipment  
reduced 50 %



Simplified Capping,  
P&A, CCS config.



Simplified  
Surface Stack

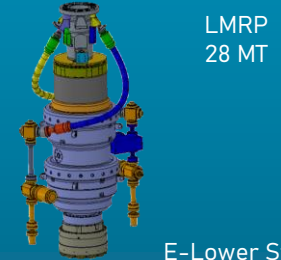
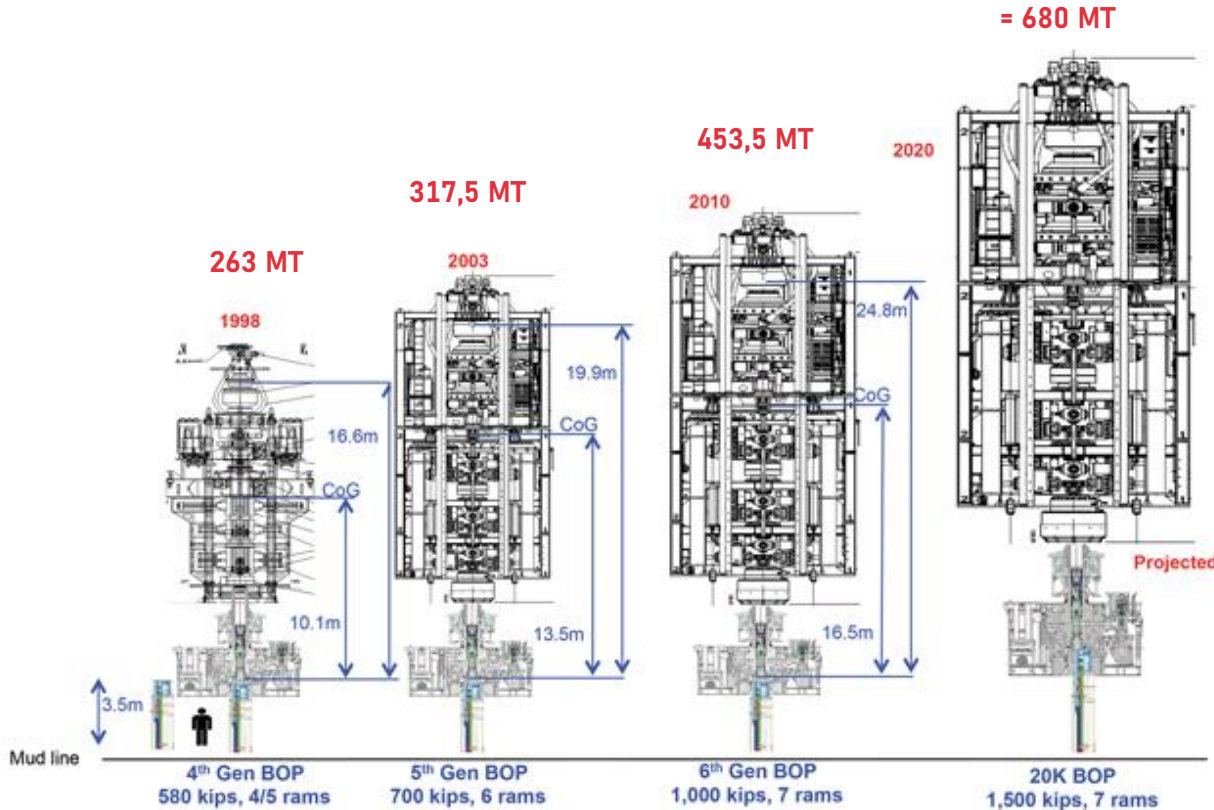
\* - values are for retrofit of existing rig; P&A stack, newbuild significantly higher reductions

# BOP Evolution

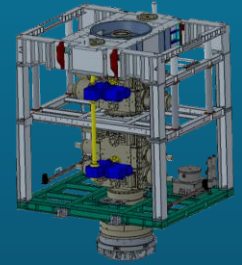


STRIPPED OF HYDRAULICS:

= Approx 140 MT



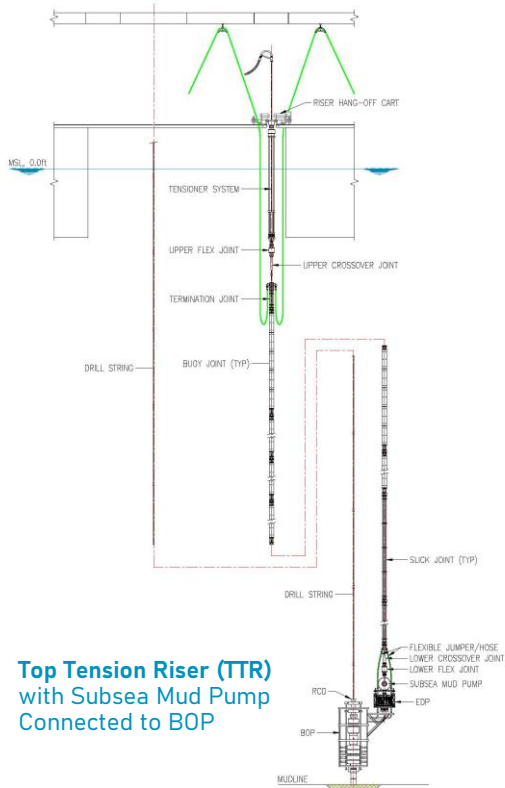
LMRP  
28 MT



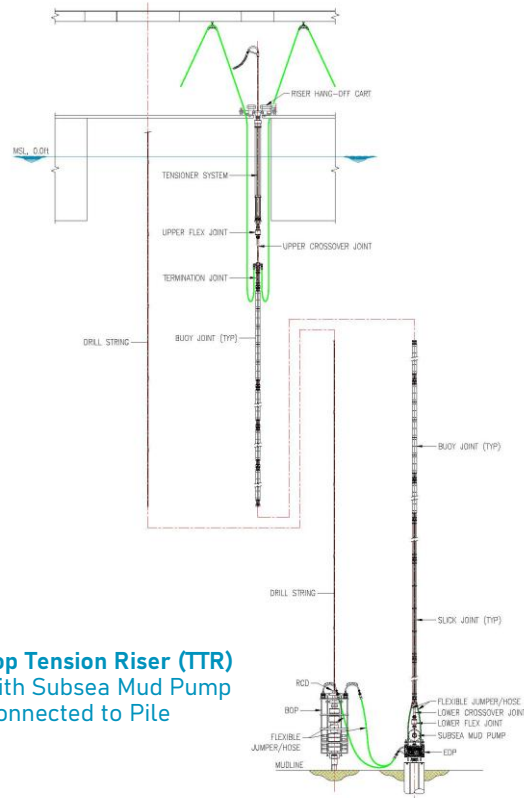
E-Lower Stack  
112 MT

**Electric BOP**

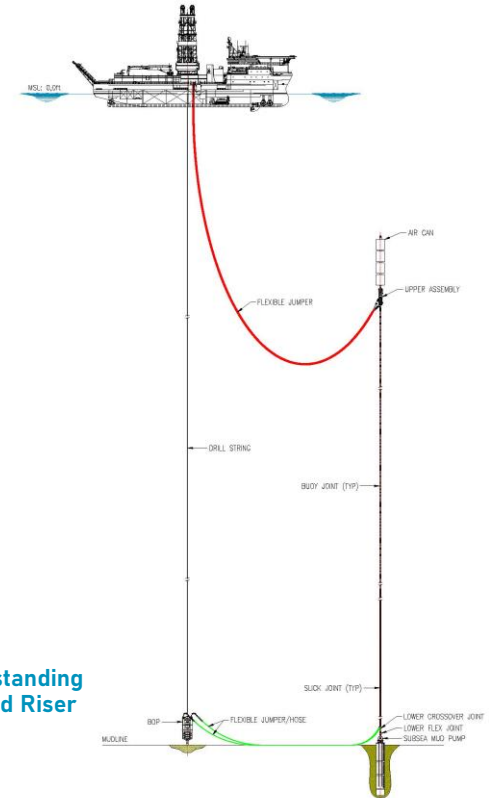
# Open Water Drilling Solutions



**Top Tension Riser (TTR)**  
with Subsea Mud Pump  
Connected to BOP



**Top Tension Riser (TTR)**  
with Subsea Mud Pump  
Connected to Pile



**Freestanding  
Hybrid Riser**



# Electric BOP & Riserless Drilling

Positive impacts on the Rig & Construction

**BETTER RIG PERFORMANCE**

- Higher VDL
- Wider BOP running window
- Lightning-fast response & Shorter EDS Times
- Lower noise & vibration
- Lower power consumption & emissions

**LOWER BUILD COST**

- Less Equipment
- Less Machy Space
- Less Steelwork & Hotwork
- Less manpower required
- Smaller riser tensioners & handling cranes

**SAFER CONSTRUCTION**

- No HP control system testing
- No hooking up multiple accumulator racks

**FASTER DELIVERY**

- Less commissioning
- Less Equipment
- Shorter Stack Delivery
- Less engineering - piping

With our technology you can reduce your CO2 emissions by 45 mT per rig, per year

# HMH Compressed Yardstay Model

## Planning kick-off:

- Establish IBW/ SPS team
- Define strategy
- Engage with certifying body
- Equipment pre-inspection

## Data review - scope definition:

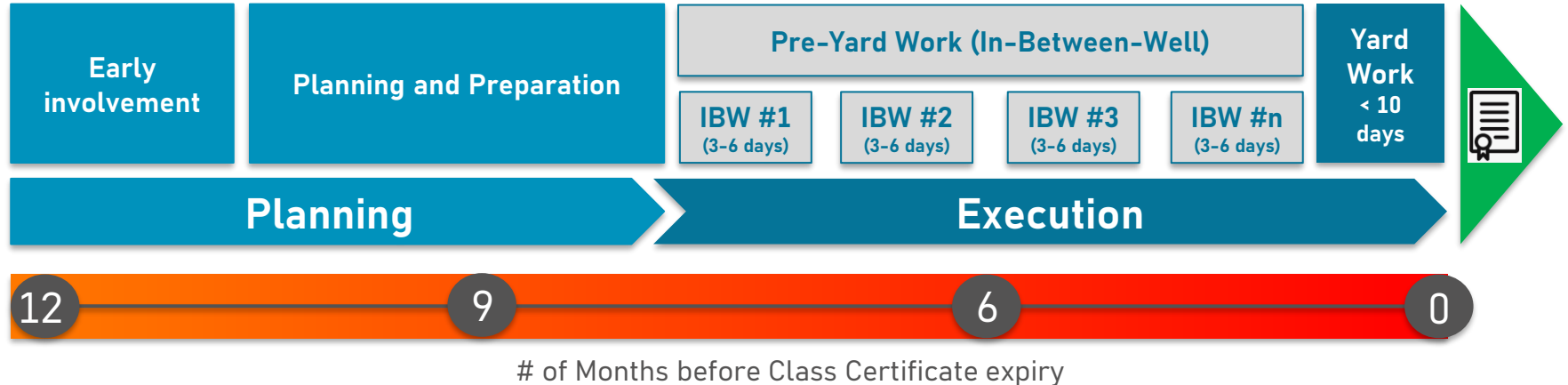
- Review of maintenance records and operational data
- Structural calculations
- Vibration and oil analysis
- Long lead item definition
- Scope definition
- Ordering of parts
- Work package preparation

## Offshore:

- Re-certification on-board (RA57)
- Overhaul on-board
- Exchange of equipment
- Commissioning

## Onshore:

- Onshore overhaul
- Documentation



Thank you!



**CONTACT**

For questions contact us at [marketing@hmhw.com](mailto:marketing@hmhw.com)



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