

# RIGLESS WELL INTERVENTION

Safe and efficient intervention, workover and abandonment of topside wells

## Conventional accommodation barge

Low workability: long crane boom causes swinging load

Fast mobilization, independent of water depth

Low day rate

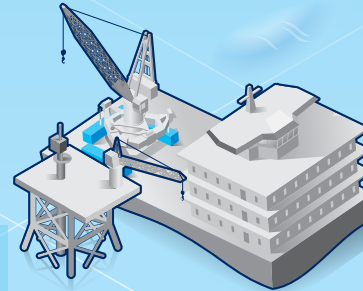


## Barge with motion compensated crane

High workability with motion compensation

Fast mobilization, independent of water depth

Low day rate

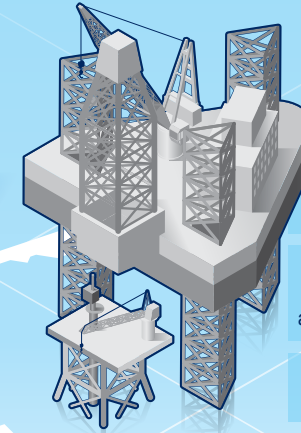


## Jack-up rig

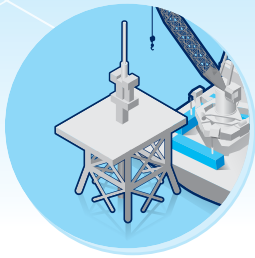
High mobilization and day rates

Limited by water depth, soil conditions and subsea obstructions

Often oversized for well intervention work

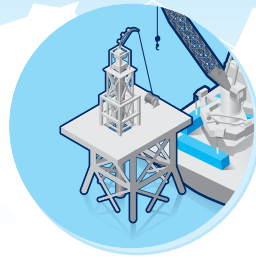


## Lift modular equipment onto platform



### HWO

Hydraulic Workover Unit



### CTU

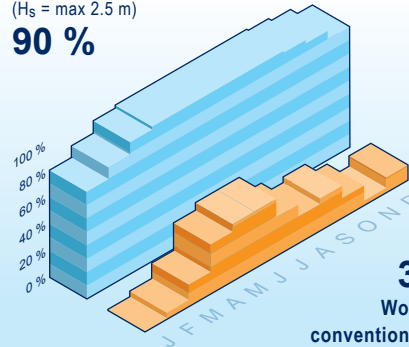
Coiled Tubing Unit

► Well service equipment up to 160 mT ► Setup can be used with any type of crane

## Casestudy Malaysia: Work throughout the Monsoon

Workability barge with BM-T700 (H<sub>s</sub> = max 2.5 m)

90 %



30 %  
Workability conventional barge (H<sub>s</sub> = max 0.8 m)

## Motion compensated lifting with BM-T700

### Accelerate your project

Vessel with BM-T700 (H<sub>s</sub> < 2.5 m)

100 day job 10% waiting on the weather

111 days actual rental period

Jack-up rig (H<sub>s</sub> < 2.5 m)

100 day job 10% waiting on the weather

111 days actual rental period

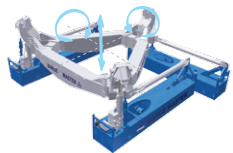
Conventional tender barge (H<sub>s</sub> < 0.8 m)

100 day job 70% waiting on the weather

333 days actual rental period



## Benefits of motion compensated lifting for well intervention



3D motion compensated platform BM-T700



### Safety

- No swinging loads while lifting
- Low risk operations
- BM-T700 is man-riding certified



### Efficiency

- No waiting on weather
- Use locally sourced vessel/ barge with any type of crane
- Same setup can be used for platform maintenance



### Reliability

- Fast and predictable offshore operations
- Controlled well shutdown period
- Workability of 330 days a year in South East Asia

	Barge with BM-T700	Jack-up rig	Conventional barge
Daily costs*	0,4 x price	1 x price	0,36 x price
Actual rental period	111 days	111 days	333 days
Total costs per job	44,4 x price	111 x price	120 x price
Cost SAVING when using BM-T700:	-	60 %	63 %

\*price compared to Jack-up rig