

CRANE SHOCK ABSORBERS

Reducing Risk During Offshore Piling Operations



Runaway pile events are a hazard during offshore wind farm installation.

Houlder shock absorbers mitigate risk by managing runaway hammers, preventing damage to the vessel or crane and supporting quick recovery and reset.

KEY FEATURES:

- + Improves safety of offshore pile hammering operations
- + Modular and self-contained system
- + Hammer runaway acceleration controlled < 4 metre displacement
- + Dynamic Amplification Factor (DAF) < 1.5

The shock absorbers fit between the crane hook and hammer in the lifting chain. No modifications to the crane or hammer are required and impact on lifting procedures is minimal. Self-contained hydraulic units provide safe locking and quick recovery and retraction.

Houlder supplies shock absorbers for hammers ranging from 70t. Modular design means units can be combined to deliver a wider range of capacities. The “twin arrangement” example below provides 600t capacity.

600t SHOCK ABSORBER SYSTEM:



APPLICATIONS:

- + Wind farm hammering operation
- + Offshore pile installation

SHOCK ABSORBER FEATURES:

- + Modular design
- + Self-contained
- + Safe locking mechanism
- + Operational temperature -20°C to +35°C

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