

PULSE PILING

REDUCING ENVIRONMENTAL IMPACT



**LET'S
BUILD**

The IHC IQIP Hydrohammer® has demonstrated to be successful in the Offshore Renewable Wind Market, meeting the ever increasing sizes and weights of the new generation wind turbines. To assure the continuous growth of the offshore wind industry, a new step our development program is the innovative piling method 'PULSE'. The modular add-on PULSE unit can upgrade every standard Hydrohammer® to the next generation of impact hammers. Thus, the 'PULSE' system is easy to implement into the current 'known' installation method.



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PULSE is extending the impact of each blow of a Hydrohammer® resulting in reduced fatigue and noise levels without compromises.

PULSE UNIQUE FEATURES:

- Reduced noise level in water and air during installation which allows contractors to meet legislation regardless to increasing pile sizes and installation energy
- Reduced installation fatigue, enabling engineering companies to optimize structure designs and contribute to the ever existing need to lower the LCoE
- Reduced installation time by efficient penetration per blow
- Fall back scenario

S-90	PULSE RESULTS
Weight pulse	1 Ton
Height pulse	1 m
Noise reduction (SEL)*	6 - 9 dB
Noise reduction (SPL)	10 - 12 dB
Fatigue*	up to -60 % improvement**
Installation efficiency / blow	up to 10% (depending on soil/pile)

* Compared on an installed Mono-pile and soil with actual noise measurement

** Improvement decreasing in last half of the pile (less critical)

S-4000	PULSE EXPECTATIONS
Weight pulse	108 Ton
Height pulse	3.2 m
Noise reduction (SEL)*	4 - 6 dB
Noise reduction (SPL)	10 - 12 dB
Fatigue*	up to -60 % improvement**
Installation efficiency / blow	up to 10% (depending on soil/pile)

* Compared on an installed Mono-pile and soil with actual noise measurement

** Improvement decreasing in last half of the pile (less critical)

