ACTIVE HEAVE COMPENSATION

Technical specifications

Our method results in energy saving up to 85%. This allows for existing hydraulic winches to be converted into active heave compensation winches without expanding the installed power supply.

An hydraulic winch with a variable displacement motor operates at a constant pressure difference regardless of the operating conditions. The constant load pressure allows for accumulation of the wave energy inside the HeaveCom cylinder. The cylinder is in force equilibrium with a constant nitrogen pressure on one hand and the constant load pressure on the other. The balance inside the accumulator allows for easy control with a small actuator. The system is actively controlled based on a modified signal from a motion reference unit.

SERIES		50	100	150
Operating conditions				
SWL	[mT]	5	10	15
Nominal line speed	[m/min]	30	30	30
AHC line speed	[m/min]	75 (+15)	75 (+15)	75 (+15)
AHC range	[m]	4	4	4
Hydraulic power unit				
Installed power	[kW]	45	75	110
Reservoir	[L]	300	500	650
HeaveCom accumulator				
Dimensions	[mm]	300x300x2000	350x350x2200	400x400x2400
Weight	[kg]	1400	2100	3000
Nitrogen skid				
Volume	[L]	200 (4x50)	400 (8x50)	500 (10x50)
Pressure	[bar]	210	210	210
Footprint	[mm]	800x800	1600x600	2000x800

READY FOR COST REDUCTION?

Invite us to tell you more about the magic of our new HeaveCom System; your advantages, the costs and everything you need to know!

HYCOM BV

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