


## INPUT FOR DRIVEABILITIES

### CAPE VLT-80

Rev. no.	Rev. date	Comments	Approved by
0	18/07/2022		AH

## CAPE VLT-80


With standard Offshore Clamps (OC)

	<b>CAPE VLT - Input for AllWave</b>	
	Version:	3.0 beta 2
	Date:	18-7-2022
	Editor:	AH

Model name	<b>CAPE VLT-80</b>	
Configuration	<b>N/A</b>	
Gearbox	1x CV-80	
Hydraulic clamps	2x OC-125	
	SI units	Imperial units
Hammer data in model		
Number of vibro hammers in tandem*	1	
Maximum frequency	23,3 Hz	1.400 rpm
Dynamic mass vibro(s)	7.411 kg	16.337 lbs
Additional dynamic mass	778 kg	1.716 lbs
Eccentric moment	80 kgm	6.944 lbsin
Clamp data		
Number of clamps	2	
Mass of one clamp	1.446 kg	3.188 lbs
Total		
Total mass of clamps	2.892 kg	6.376 lbs
Total dynamic mass	11.081 kg	24.429 lbs
Total static mass	5.963 kg	13.145 lbs
Total mass (VLT-U)	17.043 kg	37.574 lbs
Maximum		
Maximum power	408 kW	547 hp
Maximum line pull	130 t	287 kips

\* For all CAPE Holland vibro hammer configurations please always select '1' and use the data as given.

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	<b>CAPE VLT - Input for GRL WEAP</b>	
	Version:	3.0 beta 2
	Date:	18-7-2022
	Editor:	AH

Model name	<b>CAPE VLT-80</b>	
Configuration	<b>N/A</b>	
Gearbox	1x CV-80	
Hydraulic clamps	2x OC-125	
	SI units	US units
Total eccentric mass	832 kg	1.834 lbs
Eccentric mass radius	96,2 mm	3,79 in
Eccentric moment	80 kgm	6.947 in-lbs
Static mass hammer (VLT-U)	6,0 t	13,1 kips
Dynamic mass hammer	7,4 t	16,3 kips
Dynamic mass base frame	0,8 t	1,7 kips
Dynamic mass clamps	2,9 t	6,4 kips
Total mass (VLT-U)	17,0 t	37,6 kips
Maximum power	408 kW	547 hp
Maximum frequency	23,3 Hz	1.400 rpm
Efficiency	100 %	100 %
Stiffness ≤ 35% of line pull**	1,85 kN/mm	10,6 kips/in
Stiffness ≥ 35% of line pull**	10,49 kN/mm	59,9 kips/in
Maximum line pull	130 t	287 kips

\*\* The suppressors include 2 sets of elastomers with different stiffness to increase maximum line pull.

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