



OPERATING REVIEW



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INSVIVIA AS

Org.nr: NO 912 083 926

Manshausveien 22
NO-4432 HIDRASUND

www.insvivia.com

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1 SPECIFICATIONS

	Classic	InSvivia
Length	400 m	400 m
Width	55 m	70 m
Cruising depth	17 m	22 m
Swath-down depth		12 m
Height	85 m	57 m
Turbine diameter		20 m
Turbine pitch / RPS		82,5° / 0,095 RPS
Cruising speed	16 knots	80 knots
Top speed	22 knots	
Stabilization of torque	0	24 589 t
Displacement	60 000 t	21 761 t
Deadweight tonnage	140 000 t	140 000 t
Total weight	200 000 t	161 761 t
TEU capacity	16 500 TEU	16 500 TEU
Platform area	16 000 m ²	23 100 m ²
Propulsion requirement	64 mW	84,6 mW
Main propulsion	Propellers	Water jets
Others		Air compressors
Total installed effect	80 mW	100 mW
Crewing requirement	20 workers	22 workers
Fleet size	4 vessels	1 vessel
Bending moment (<i>rated at 13 m wave height</i>)	3 750 000 t/m	22 500 t/m

2 BUILDING ESTIMATES

	Units	Classic	InSvivia
Engineering	1	\$5 000 000	\$5 000 000
<i>Hot rolled plates and beams \$700 per ton</i>		<i>55 000 tons</i>	<i>8 500 tons</i>
Hull / platform steel	1	\$38 500 000	\$5 950 000
Hull / platform production	1	\$60 000 000	\$12 000 000
<i>Hot rolled plates and beams \$700 per ton</i>			<i>5 000 tons</i>
Turbine steel	2		\$7 000 000
Turbine production	2		\$14 000 000
<i>Steel \$1000 per ton</i>			<i>46 tons</i>
Platform supporters/brackets steel	6		\$554 000
Platform supporter production	6		\$1 080 000
<i>Steel \$2000 per ton</i>			<i>62 tons</i>
Bearing steel	6		\$744 000
Bearing production	6		\$3 300 000
<i>Rolls-Royce KaMeWa S300</i>			
41 mW propulsion system	2	\$18 000 000	\$18 000 000
41 mW engines	2	\$18 000 000	\$18 000 000
<i>Rolls-Royce B35:40V</i>			
3 mW electric torque outpower	2		\$2 000 000
4 mW jet compressors	2		\$8 000 000
<i>Air tubes 970mm \$1000 per m</i>			<i>80 m</i>
Air main tubes	1		\$80 000
<i>Air tubes 400-100mm averaged \$300 per m</i>			<i>3640 m</i>
Air distribution tubes	1		\$1 092 000
Air Y-adapters with 2 outlets	400		\$1 200 000
Air nozzle with shutter	800		\$4 000 000
Crewing hotel interior and accomodation	1	\$7 000 000	\$7 000 000
Steering and controll system	1	\$8 000 000	\$10 000 000
Cargo security devices	1	\$3 000 000	\$3 000 000

Crewing security devices	1	\$1 000 000	\$1 000 000
500 t Swath-Down lifting	1		\$1 000 000
Total	1	\$158 500 000	\$124 000 000
Number of vessels	4		1
Total fleet price		\$634 000 000	\$124 000 000

3 LOAN

	Classic	InSvivia
Rate	6 %	6 %
Sum	\$634 000 000	\$124 000 000
Time	10 years	10 years
Repayment 1. year	\$101 440 000	\$19 840 000
Repayment 2. year	\$97 636 000	\$19 096 000
Repayment 3. year	\$93 832 000	\$18 352 000
Repayment 4. year	\$90 028 000	\$17 608 000
Repayment 5. year	\$86 224 000	\$16 864 000
5 years total	\$469 160 000	\$91 764 000
Repayment 6. year	\$82 420 000	\$16 120 000
Repayment 7. year	\$78 616 000	\$15 376 000
Repayment 8. year	\$74 812 000	\$14 632 000
Repayment 9. year	\$71 008 000	\$13 888 000
Repayment 10. year	\$67 204 000	\$13 144 000
Total	\$843 220 000	\$164 924 000
Diff.	-80 %	80 %

4 OPERATING

4.1 INSURANCE

	Classic	InSvivia
Hull insurance per month	\$158 500	\$124 000
Liability insurance (collision, fire etc.) per month	\$100 000	\$171 000
Crewing insurance per month	\$50 000	\$55 000
Total per month	\$308 500	\$350 000
Per year	\$3 702 000	\$4 200 000
Year sum of fleet	\$14 808 000	\$4 200 000
5 years	\$74 040 000	\$21 000 000
10 years	\$148 080 000	\$42 000 000
Diff.	-72 %	72 %

4.2 FUEL

	Classic	InSvivia
Type	MGO	MGO
List price per metric/ton	\$600	\$600
Fuel consumption	170 g / kWh	170 g / kWh
	10,88 ton / hour	14,21 ton / hour
Consumption per month	7 693 tons	8 738 tons
Per month	\$4 615 800	\$5 242 800
Per year	\$55 389 600	\$62 913 600
Year sum of fleet	\$221 558 400	\$62 913 600
5 years	\$1 107 792 000	\$314 568 000
10 years	\$2 215 584 000	\$629 136 000
Diff.	-72 %	72 %

4.3 CREWING

	Classic	InSvivia
Number of workers	20	22
Number of workers total (4-4 shift)	40	44
Averaged month wage	\$8 000	\$8 000
Per month	\$320 000	\$336 000
Per year	\$3 840 000	\$4 032 000
Year sum of fleet	\$15 360 000	\$4 032 000
5 years	\$76 800 000	\$20 160 000
10 years	\$153 600 000	\$40 320 000
Diff.	-74 %	74 %

4.4 MAINTENANCE

	Classic	InSvivia
Basic maintenance per month	\$200 000	\$200 000
Maintenance of engines/propulsion system	\$100 000	\$100 000
Additional maintenance of bearings/air system		\$300 000
Total per month	\$300 000	\$600 000
Per year	\$3 600 000	\$7 200 000
Year sum of fleet	\$14 400 000	\$7 200 000
5 years	\$72 000 000	\$36 000 000
10 years	\$144 000 000	\$72 000 000
Diff.	-50 %	50 %

4.5 TOTAL

	Classic	InSvivia
5 years		
Fuel	\$1 107 792 000	\$314 568 000
Crewing	\$76 800 000	\$20 160 000
Maintenance	\$72 000 000	\$36 000 000
Insurance	\$74 040 000	\$21 000 000
Total operating	\$1 330 632 000	\$391 728 000
Diff.	-71 %	71 %
Savings	\$0	\$938 904 000
10 years		
Fuel	\$2 215 584 000	\$629 136 000
Crewing	\$153 600 000	\$40 320 000
Maintenance	\$144 000 000	\$72 000 000
Insurance	\$148 080 000	\$42 000 000
Total operating	\$2 661 264 000	\$783 456 000
Diff.	-71 %	71 %
Savings	\$0	\$1 877 808 000
Savings per month	\$0	\$15 648 400
Savings per year	\$0	\$187 780 800

5 LEASING

	Classic	InSvivia
Per month		
TEU-amount	100 %	400 %
Savings per month	\$0	\$15 648 400
Market leasing price	\$10 000 000	\$55 648 400
Market value diff.	100 %	556 %
Our leasing price		\$35 000 000
Savings	\$0	\$20 648 400
Leasing per year	\$120 000 000	\$420 000 000
Savings per year	\$0	\$206 484 000
5 years	\$600 000 000	\$2 100 000 000
Savings of 5 years	\$0	\$1 032 420 000
10 years	\$1 200 000 000	\$4 200 000 000
Savings of 10 years	\$0	\$2 064 840 000

6 PROFIT

	Classic	InSvivia
5 years		
Leasing	\$600 000 000	\$2 100 000 000
Loan	\$468 887 000	\$91 764 000
Profit	\$131 113 000	\$2 008 236 000
Profit of loan	22 %	2188 %
10 years		
Leasing	\$1 200 000 000	\$4 200 000 000
Loan	\$843 220 000	\$164 924 000
Profit	\$356 780 000	\$4 035 076 000
Profit of loan	30 %	2447 %
Leasing of 100 ships		
5 years		
Leasing	\$60 000 000 000	\$210 000 000 000
Loan	\$46 888 700 000	\$9 176 400 000
Profit	\$13 111 300 000	\$200 823 600 000
Profit of loan	22 %	2188 %
10 years		
Leasing	\$120 000 000 000	\$420 000 000 000
Loan	\$84 322 000 000	\$16 492 400 000
Profit	\$35 678 000 000	\$403 507 600 000
Profit of loan	30 %	2447 %