

A 1:45.714 model of the KVLCC2 was manufactured by Insean. This model was transported through Europe for various tests. The following tests were sequentially carried out:

- INSEAN: PMM tests in deep and shallow water
- HSVA: deep water free running tests
- MARIN: deep water free running tests
- CTO: deep water free running tests
- BSHC: shallow water PMM tests

The propeller used by all 5 tests campaigns was an INSEAN stock propeller with the following characteristics:

Values	Full scale	Model scale
type	FPP	
blades [-]	5	
Diameter [m]	9.326	0.204
P0.7/D [-]	0.808	
Ae/A0 [-]	0.448	
hub ratio [-]	0.165	
Rotation [-]	clockwise (right-handed)	

A photograph of the propeller is shown in the following picture



Propeller open water tests were *not* carried out. The following propeller open water characteristics are *calculated* based on the propeller properties.

Open water data of the propeller

J	Kt	10Kq	Eta
0.000	0.323	0.3704	0.000
0.050	0.312	0.3609	0.069
0.100	0.301	0.3510	0.136
0.150	0.288	0.3404	0.202
0.200	0.275	0.3293	0.266
0.250	0.261	0.3174	0.327
0.300	0.245	0.3047	0.385
0.350	0.229	0.2911	0.439
0.400	0.212	0.2765	0.489
0.450	0.195	0.2608	0.535
0.500	0.176	0.2440	0.575
0.550	0.157	0.2259	0.609
0.600	0.137	0.2064	0.635
0.650	0.117	0.1855	0.651
0.700	0.096	0.1630	0.653
0.750	0.074	0.1390	0.634
0.800	0.052	0.1132	0.581
0.850	0.029	0.0857	0.456
0.900	0.006	0.0562	0.145
0.912	0.000	0.0488	0.000