

Product Comparison: PropExpert and NavCad Standard

The following table provides a brief technical feature comparison of HydroComp’s **software for hydrodynamic design and analysis** — PropExpert and NavCad Standard.

● *Partial Feature* + *Full Feature*



		Propulsion vendors	All vessels
Applicability	Typical user		
	General vessel size (guidance only)	< 50m (150ft)	Unlimited
	Propulsion analysis	●	+
	Resistance prediction		+
	Open and ducted propellers	+	+
	Surface piercing, cycloidal, controllable-pitch, contra-rotating propellers		+
	Waterjets		+
	Compound gearbox		+
Technical Details	Displacement and planing monohulls	+	+
	Catamarans and barges	●	+
	Submarines and SWATHs		+
	Added environmental drag prediction		+
	Drag of towed objects		+
	Propulsion sizing by power	+	+
	Propulsion sizing by thrust		+
	Propulsive coefficient prediction	●	+
	Propulsor series	6	12
	Tunnel thruster sizing		+



● *Partial Feature* + *Full Feature*



Project Management	Correlation to sea trials or model tests	●	+
	Correlation to propeller model tests		+
	Model test data management		+
	CFD simulation data management		+
	Engine data management	+	+
	Propeller data management	+	+
	Waterjet data management		+
	Confidence plots		+
	Benchmark vessels		+
	Comparison plots		+
	Hull form drag reduction guidance		+