OUR TWELVE SCREWS IN FIGURES : TESTERS' ASSESSMENTS AND THE FINAL ORDER OF MERIT!

Make/model	Nakashima 3 bladed fixed	Radice	France Hélices Racing	Flexofold	Volvo Penta	Bruntons Autoprop	Gori	Kiwiprop	SPW	J Prop	Maxprop	Ewol
		2-bladed folding	2-bladed folding	3-bladed folding	3-bladed folding	3-bladed folding	3-bladed folding	3-bladed feathering	3-bladed feathering	3-bladed feathering	3-bladed feathering	3-bladed feathering
Price inc. tax	€ 400,00	€ 601,00	€ 1.115,00	€ 1.712,00	€ 1.988,00	€ 2.153,00	€ 2.697,00	€ 1.398,00	€ 2.063,00	€ 2.394,00	€ 2.628,00	€ 2.990,00
Diameter	16 in.	17 in.	16 in	16 in.	16 in.	16.3 in	16.5 in	16 in	16 in	16 in	17 in	16 in
Pitch	10 in.	12 in.	12 in.	11 in.	11 in.	Variable	11 in	11.55 in	10.5 in	10 in	9 in	12.1 in
Weight	4,254 g	5,000 g	4,390 g	8,845 g	7,140 g	7.115 g	7,395 g	3,625 g	6,220 g	7,525 g	5,460 g	8,270 g
Material	Nibral	Nibral	Nibral	Nibral	Nibral	Nibral/superston	Nibral	Stainless/composite	Nibral	Nibral	Nibral	stainless steel
Max. engine revs.	3,302 rpm	3,018 rpm (2)	3,020 rpm	3140 rpm	3,596 rpm	3,212 rpm	3,427/	3,260 rpm	3,525 rpm	3,580 rpm	3,480 rpm	3,340 rpm
			-2	-2			2,757 rpm (3)					
Speed at 2,200 rpm	6 kts	6.3 kts	6.45 kts	6.4 kts	5.7 kts	6.65 kts	5.8/6.65 kts	5.75 kts	5.15 kts	5.35 kts	5.5 kts	5.75 kts
Speed at 1500rpm	4.35 kts	4.5 kts	4.9 kts	4.4 kts	4 kts	5.1 kts	4.15/4.6 kts	4.2 kts	3.3 kts	3.75 kts	3.85 kts	4.1 kts
Range at 2,200 rpm	3.63 miles/l	3.15 miles/l	2.95 miles/l	3.36 miles/l	3.98 miles/l	3.21 miles/l	3.53/4.17 miles/l	3.32 miles/l	3.73 miles/l	3,84 miles/l	3.57 miles/l	3.46 miles/l
Range at 1,500 rpm	6.40 miles/l	6.08 miles/l	5.9 miles/l	6.11 miles/l	6.35 miles/l	5.8 miles/l	5.53/5.9 miles/l	6.08 miles/l	6.36 miles/l	5.95 miles/l	6.2 miles/l	6.21 miles/l
Consumption At 6 knots	1.65 l/hr	1.72 l/hr	1.57 l/hr	1.57 l/hr	1.73 l/hr	1.40 l/hr	1.57/1.84 l/hr	2.03 l/hr	2.09 l/hr	2 l/hr	2.2 l/hr	1.88 l/hr
Slippage at 6knts	22%	33%	26%	22%	34%	-1	32%/ - (1)	35%	36%	33%	24%	40%
Traction at 2,200 rpm	170 N	130 N	145 N	185 N	165N	80 N	165/220 N	150 N	110 N	105 N	150 N	130 N
Traction at 3,000 rpm	293 N	245 N (2,800 rpm)	195 N (2,650 rpm)	290 N	280N	180 N	270 N	210 N	253 N	220 N	255 N	240 N
Reverse traction at 3,000 rpm	185 N	215 N	125 N	170N	205N	175 N	210 N	144 N	215 N	210 N	210 N	213 N
Stopping distance at 5 knots	9 m	9 m	12.2 m	8 m	9 m	7.40 m	4 m	7 m	45.50 m	7.30 m	6.90 m	7 m
Acceleration 0 to 6 knots	13.4 secs	15 secs	16.3 secs	14 secs	12.8 secs	12.5 secs	14.3 secs	23 secs	15.4 secs	14 secs	16.2 secs	14 secs
Consumption	****	***	***	***	***	*****	****	***	**	****	**	****
Manoeuvrabilty	****	**	*	**	***	**	**	****	*****	****	***	****
Noise/Vibration	****	*	**	****	*****	**	**	***	****	***	**	***
Ease of assembly	*****	***	***	***	***	****	****	****	***	****	*	****
Pitch adjustment	-	-	-	-	-	**	**	**	*****	***	*	****
Quality/price	****	***	**	***	****	*****	***	*****	****	***	**	***
Comments	Not expensive and performs well but high drag	The cheapest low-drag screw	Sometimes difficult to open when manoeuvring	Not too strong, but reasonable performance	Good aural comfort and easy fitting	Very good performance at cruising speed	Strong pitch effect but overdrive is a real plus	Be careful adjusting the pitch blade by blade	Very attractive price for a very well-made screw	Very simple fitting and adjustment	Shows its age compared with the competition	Very nice screw, but the price is a bit steep

* : fair ** : average *** : good **** : very good ***** : excellent

(1) As the pitch varies constantly, the slippage cannot be calculated (2): below 3.200 rpm max. revs. the pitch is really too strong for the engine. (3) the second figure corresponds to the overdrive position