

## Relative stiffness Optimist masts / sprits / booms



MASTS	Aluminium	E-modulus in Gpa	Outer Diameter	Wall thickness mm	Inner Diameter	Relative stiffness based on I	Relative stiffness based on I and E	Relative Stiffness compared with			
								MK 4	MK3	Silverregatta	flex mast
Optimax MK 4	7075T6	72	45	2,2	40,6	1.383.534	99.614.470	100%	104%	112%	125%
Optimax MK 3	7075T6	72	45	2,1	40,8	1.329.599	95.731.104	96%	100%	107%	120%
Silver Regatta	6082T6	70	45	2	41	1.274.864	89.240.480	90%	93%	100%	112%
Optimax Flex	7075T6	72	45	1,7	41,6	1.105.787	79.616.670	80%	83%	89%	100%

SPRITS	Aluminium	E-modulus in Gpa	Outer Diameter	Wall thickness mm	Inner Diameter	Relative stiffness based on I	Relative stiffness based on I and E	Relative Stiffness compared with		
								29mm	27mm	Silverregatta
29mm	7075T6	72	29	1,4	26,2	236.081	16.997.841	100%	118%	140%
27mm	7075T6	72	27	1,5	24	199.665	14.375.880	85%	100%	118%
Silver	6082T6	70	25,4	1,6	22,2	173.340	12.133.811	71%	84%	100%

BOOMS	Aluminium	E-modulus in Gpa	Outer Diameter	Wall thickness mm	Inner Diameter	Relative stiffness based on I	Relative stiffness based on I and E	Relative Stiffness compared with				
								55mm	45mm	40mm	32mm	Silverregatta
55mm	7075T6	72	55	1	53	1.260.144	90.730.368	100%	169%	225%	349%	231%
45mm	7075T6	72	45	1,1	42,8	744.987	53.639.079	59%	100%	133%	207%	137%
40mm	7075T6	72	40	1,2	37,6	561.283	40.412.352	45%	75%	100%	156%	103%
32mm	7075T6	72	32	1,6	28,8	360.605	25.963.581	29%	48%	64%	100%	66%
Silver	6082T6	70	40	1,2	37,6	561.283	39.289.786	43%	73%	97%	151%	100%