

UPFFRONT.COM SMARTSAILING GUIDE

RUNNING RIGGING
LENGTHS

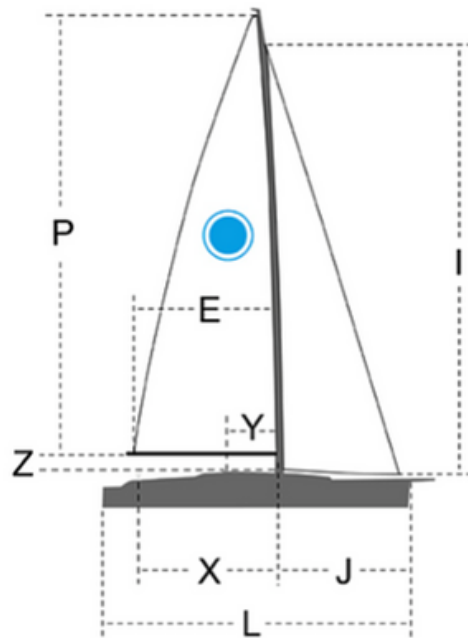
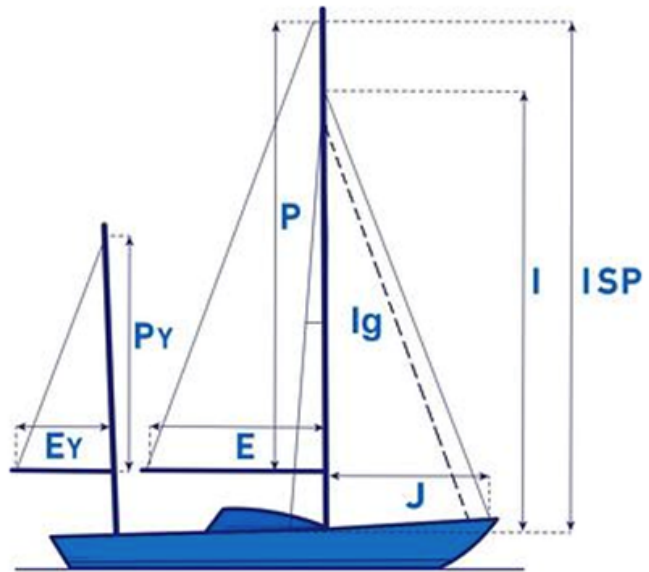
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RECOMMENDED HALYARD AND SHEET LENGTHS

Estimating halyard and sheet lengths is easy! Standard sailmaker I.J.P.E. dimensions are usually the most commonly available data to work from. The following diagrams and formulas will then help calculate the most appropriate length for your ropes.



L: BOAT LENGTH	P: MAINSAIL HOIST LENGTH
I: HEIGHT OF THE FORESTAY ABOVE DECK	E: MAINSAIL FOOT LENGTH
J: LENGTH FROM MAST TO FORESTAY	PY: MIZZEN HOIST LENGTH
EY: MIZZEN FOOT LENGTH	IG: HEIGHT OF INNER FORESTAY ABOVE DECK
ISP: HEIGHT OF SPINNAKER HALYARD ABOVE DECK	X: DISTANCE FROM GENOA WINCH TO MAST
Y: DISTANCE FROM HALYARD WINCH TO MAST	Z: HEIGHT OF BOOM ABOVE DECK

Use your rig geometry to calculate approximate halyard and sheet lengths using the formulae below. Each of the formulae includes some room for error however, if in doubt, it is always better to add on 1-2 meters, than to cut it too short!

Halyards			
Main 1:1	$2.1 \times P + Z + Y + 1$	Main 1:1	$2.1 \times P + 2$
Main 2:1	$3.2 \times P + Z + Y + 1$	Main 2:1	$3.2 \times P + 2$
		Mizzen 1:1	$2.1 \times P_y + 2$
Genoa	$2.1 \times l + Y + 1$	Genoa	$2.1 \times l + 1$
Spi / Code 0 / Gen	$2.1 \times l_{sp} + Y + 2$	Spi / Code 0 / Gen	$2.1 \times l_{sp} + 2$
Staysail	$2.1 \times l_g + Y + 1$	Staysail	$2.1 \times l_g + 1$
Halyard winch on coachroof		Halyard winch on mast	
Sheets			
Jib	L	Genoa	$1.5 \times L$
Gennaker	$2.5 \times L$	Spinnaker Sheet / Guy	$2.1 \times L$
Reef Lines			
Main Reef 1	$0.24 \times P + E + Z + Y + 2$	Main Reef 2	$0.48 \times P + E + Z + Y + 2$
Mizzen Reef 1	$0.24 \times P_y + E_y + Z + Y + 2$	Mizzen Reef 2	$0.48 \times P_y + E_y + Z + Y + 2$
Reef 1 at 12% of P		Reef 2 at 24% of P	

If you have any questions about your running rigging requirements, do not hesitate to contact us at support@upffront.com