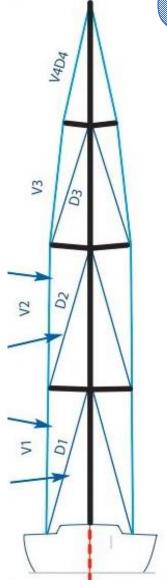


## QUICK GUIDE FOR MAST TUNE UP



- FIND RAKE
- FIND BEND
- CHECK MAST HEAD POSITION
- FIX MAST COLLAR
- DIAGONAL ADJUSTMENT





- HOW FAR THE MAST IS ANGLED FROM A STRAIGHT VERTICAL

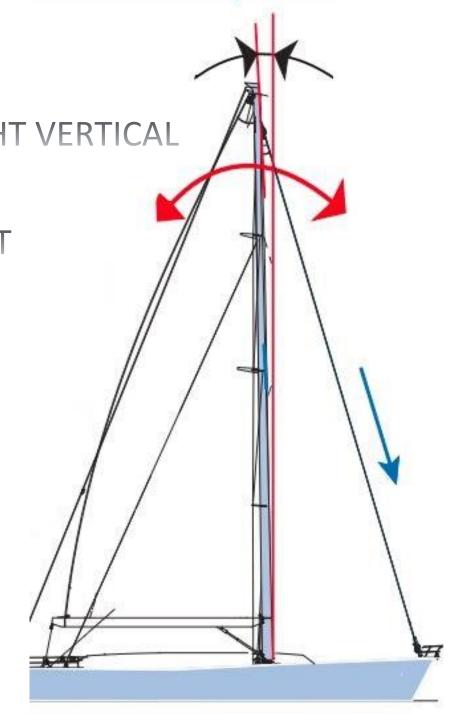
- CONNECTED ONLY WITH FORESTAY LENGHT

- 0.5°/1° MAST FURLING MAINSAIL, CRUISING BOAT

- 1°/1.5° FAST CRUISING BOAT

- 1.5°/2° RACING BOAT





#### RAKE CALCULATION PROCEDURE

# Example FOR 1°RAKE

$$A = 14.000$$

$$B = 1$$
°tan x A

$$1^{\circ}$$
tan = 0.017

$$B = 14.000 \times 0.017 = 238$$

Mainsail halyard + weight, calm wind, boat in balance



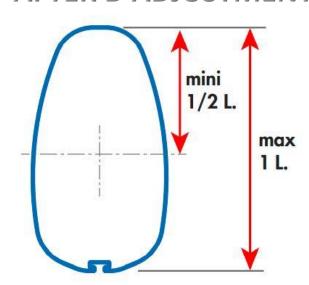


#### PRE-BEND

- FORWARD SLIDING OF THE CENTRAL PART OF THE MAST TENSIONING V1
- INCREASING THE TENSION OF THE V PUSHES MAST FORWARD CREATING PRE-BEND
- CHECK THE MAST HEAD CENTER LINE POSITION

#### REMEMBER TO FIX MAST COLLAR BEFORE D ADJUSTMENT

- TIGHTENING D1/2.. WILL REDUCE THE BEND
- AFTER D ADJUSTMENT PRE-BEND MUST BE BETWEEN ½ AND 1 MAST SECTION

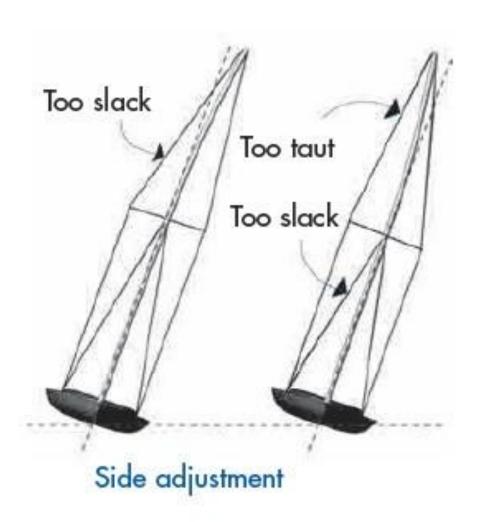


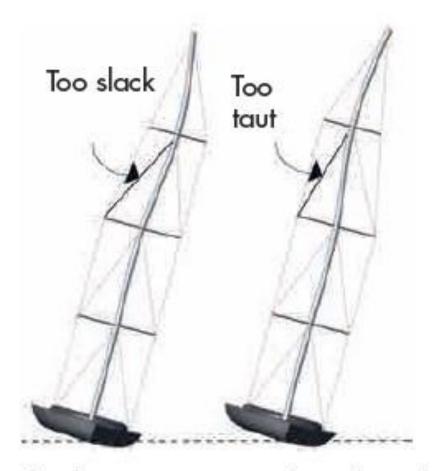
Both rake and bend are substantially exaggerated for illustration purposes.

Rend

Rake

#### SAILING MAST FINE TUNING

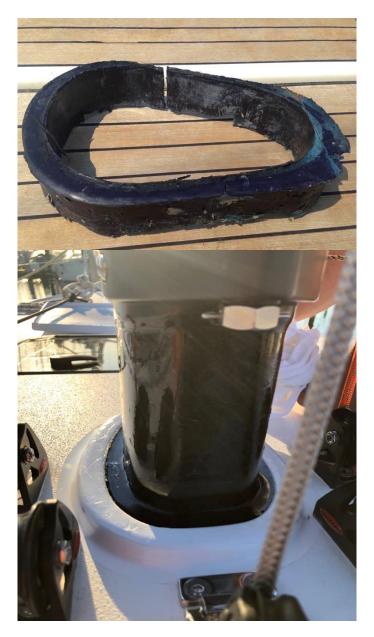




Diagonal adjustment (intermediate shrouds)

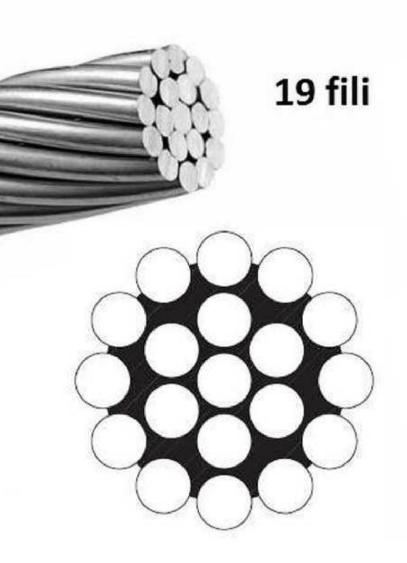


#### HOW TO FIX MAST COLLAR



- WOODEN SPLICER
- SPARTITE

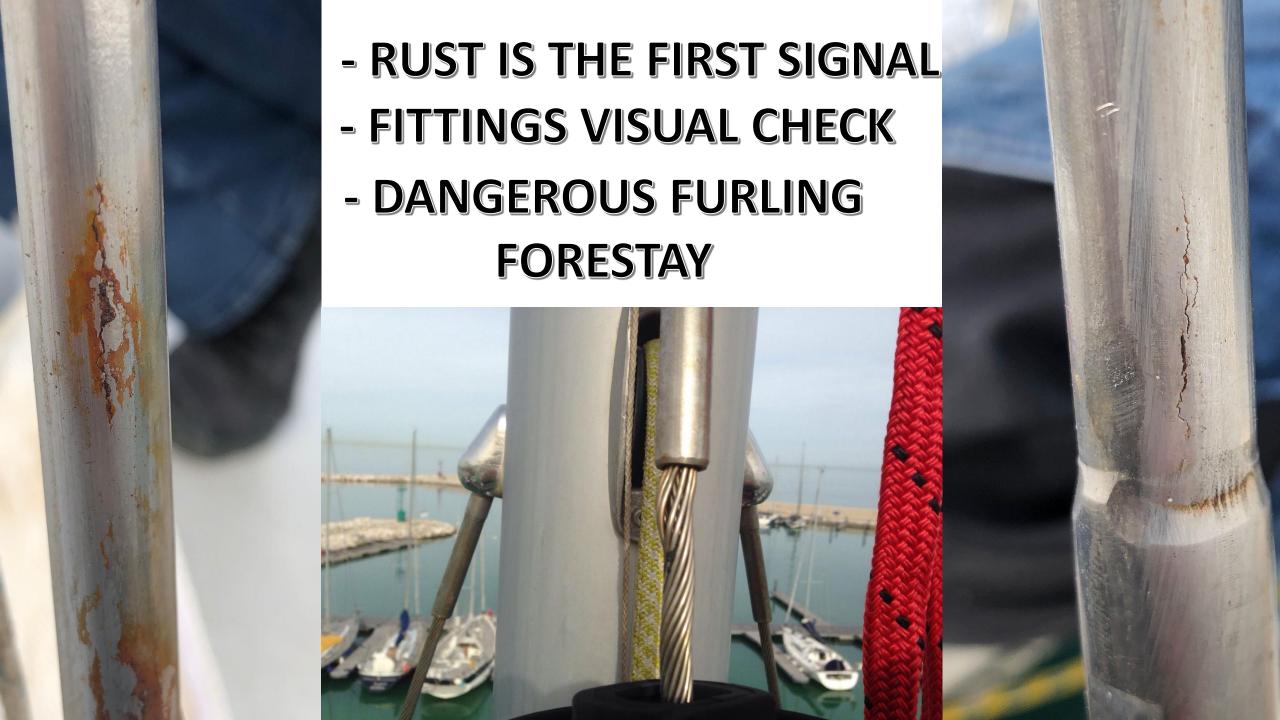






- ESTIMATED LIFE 10/15 YEARS
- BREAKING LOAD 10 mm 8030 kg
- INOX STEEL AISI 316 1X19
- GOOD STRESS RESISTANCE
- MEDIUM ELONGATION







#### DYFORM

- ESTIMATE LIFE 10/15 YEARS
- BREAKING L. 10 mm 9770 kg
- INOX STEEL AISI 316 COMPACT
- GOOD ELONGATION
- SAME 1X19 INSPECTION

**DYFORM COMPACT** 

1 X 19







#### ROD

- ESTIMATED LIFE 6-10 YEARS
- BREAKING LOAD 10 mm 10220 kg
- NITRONIC 50
- MINIMUM ELONGATION
- BAD STRESS RESISTANCE



**Cracked Rod Head** 





### ALUMINIUM CORROSION

- ALUMINIUM / STAINLESS STEEL
- ISOLATION NOT PRESENT
- ACETIC SILICON







