



emergency tiller

45000Z-20 series top self-aligning roller bearing with vertical locking and deck cover

stainless or aluminium top sleeve

stainless or aluminium sleeve

45000 series self-aligning bottom roller bearing

example 021 : typical rudder solution for a racer with a carbon rudder shaft. The composite surface of the shaft is unusable as running surface for the bearings, so a new running surface has to be created with the help of sleeves. Sleeves can be made from stainless 316 or hard anodised Aluminium 6082. Please note the superb 45000Z-20 type top bearing with asymmetrical outer housing, allowing deck to rudder angles up to 21°.