

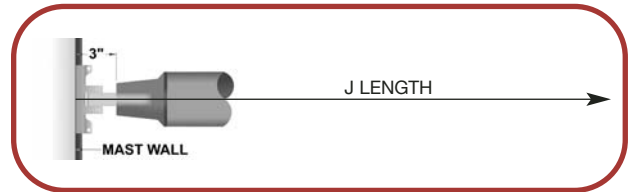
## TOGGLE CARS 1-1/4" & 1-1/2" (For Offshore Poles)

This car slide is offered both in stainless steel and hard coat anodized extruded aluminum. The toggle-pin is stainless steel in each case. Toggle assemblies available separately see replacement parts page. Our strong 1-1/2" toggle spinnaker car is for boats approx. 50' to 70' LOA. Fits the standard Schaefer 41-12 1-1/2" track. Low friction movement due to UHMW inserts.

To allow vertical storage on the mast of larger poles up to 6" diameter, specify our long toggle option. Our standard toggle works with poles to 4-1/2" diameter.



Part No.	Model No.	Track Size
333004	T-125-S (S/S Body)	1-1/4"
333020	Long Toggle Option	
333010	Toggle & Knuckle Assembly	
334002	AT-125-S (Alum. Body)	1-1/4"
334100	AT-150-S (Alum. Body)	1-1/2"
331013	Replacement Runners	



FOR POLES WITH OUR TS & UTS END FITTING, AND USING A FORESPAR® T-125-S CAR, 3" IS SUBTRACTED WHEN GIVEN A 'J' DIMENSION TO ESTABLISH POLE LENGTH.



### TECH. TIPS - MAST CAR & PAD EYE RING DIA.

Many masts on boats built through the 70's and early 80's came with mast pad eyes or ring cars for attachment of the spinnaker pole. These were fixed eyes or sliding cars with relatively small ring diameters. Some were as small as 1" I.D.

Forespar® "Ultra" series end fittings (both the UXP and UTR style) require a minimum of 1-1/2" I.D. rings for proper function. If the ends are used on rings less than 1-1/2" I.D. the jaws ("beak") can bind-up in the rings and with the leverage of an 8' pole, (or longer!) the ends will fail.

This is not the fault of the end fittings. A proper sized ring will avoid this and allow the ends to freely move under spinnaker pole compression loads as needed.

Forespar® offers S/S mast pad eyes (PE-3-SF & PE-3-SC) and sliding ring cars (RC-125) with 1-5/8" I.D. rings for use with our end fittings. Lesser diameter rings should be changed-out to avoid potential failure to ends due to insufficient clearance.

Forespar® will not warrant ends that fail due to improperly sized rings on the mast.



MINIMUM RING INNER DIAMETER MUST BE 1-1/2" OR MORE (UP TO 2" MAXIMUM) FOR PROPER FUNCTION OF FORESPAR END FITTINGS

## RING STYLE MAST CAR - RC 125

The ring and body of this unusually strong car is investment cast of 17-4 heat treated stainless steel to provide a superior product. Compatible with our "UXP" and "UTR" pole end fittings. Ring I.D. is 1-5/8".

The RC-125 is for 1-1/4" T-track and has a screw lock-pin, our special UHMW polyethylene slides inserts and provisions for up and downhaul shackles.

**RC-125 car is Not recommended for use with poles that are to be stored vertically up the mast.**



Part No.	Model No.
331000	RC-125

**SEE REPLACEMENT PARTS PAGE**



Courtesy of Geri Conser

# MAST CARS & ACCESSORIES

Supplied By: American Rigging Supply, Inc.

## HEAVY DUTY CAR — FC-125

These spinnaker cars are designed for the yachtsman who wants a safe, effective means of pole attachment for less than the price of the pin type car. The heavy duty FC-125 spinnaker car allows both vertical and horizontal movement while eliminating undesirable twisting motion of the spinnaker pole. The car slide is high strength, hard anodized aluminum alloy. The pole acceptance jaw is stainless steel.

Fits all standard 1-1/4" X 3/16" flat stainless or aluminum T-track. Recommended for "UTR" and "UXP" type spinnaker pole ends.



FC-125

Part No.	Model No.
332002	FC-125



## TECH. TIPS - ABOUT VERTICAL POLE STORAGE

Storing poles (whisker or spinnaker) vertically up the forward face of the mast has become very popular. It clears the decks and keeps the cruising sailor from having to lift the entire weight of the pole from the deck to the mast car. It can, however, cause a few problems or failures if not used with the correct components.

Selection of the proper mast car and inboard end fitting combination is critical. Ring style cars (ours or anyone else's) will not allow a pole to hang vertically without binding and eventually breaking the end fitting. Bear in mind that you have a significant "lever arm" effect on the end. A 10-foot pole can create enough leverage to fracture or bend ends and rings if they bind up without you ever feeling it from the opposite end of the pole. Therefore, **Forespar®** does not recommend ANY ring style mast cars if the pole is to be stored up the mast.

If using latch style ends ("UXP" & "UTR" Ultra ends or older "XP", "TR" & "EL" aluminum ends) the FC-125 (#332002) flange style car (this page) is designed to allow up to a 4-1/2" diameter pole to hang vertically without binding up. The Toggle style cars (preceding page) will also allow mast storage with the "offshore" style "TS" & "UTS" style ends.

To aid in vertical pole storage, **Forespar®** has designed the "VPC" (this page) vertical pole storage cars in 2-1/2" to 4" sizes. These cars are designed to attach to the FC-125 or toggle style cars with a short "tail" (line or wire) and run in tandem up and down the track. When the pole is in use, they hang below the mast car and out of the way. Most importantly, when the pole is raised to the vertical storage position, the VPC car is raised up the track and engages the pole near the top. This not only keeps the pole on the centerline (important with toggle cars) but also dampens the poles movement when at anchor. When used with the appropriate deck chock, (also on the mast) the pole can safely be stored up the mast and sheets will not foul on the outboard pole end that is captured by the deck chock on the mast. It is important that all components are on the mast so that the stored pole comes as close to parallel to the mast as possible.

If storage of the pole up the mast is your choice, we also strongly recommend securely mounted deck chocks be available for severe weather. It is advisable to remove poles from the mast and store them on deck in storm conditions. This removes the weight and windage aloft and keeps the poles available for an emergency should your rig be carried away.

If vertical pole storage is not desirable, **Forespar®** offers stanchion chocks (page 11) and standard deck chocks for pole storage as well.



## VERTICAL POLE STORAGE CAR

Available in four sizes; this mast fitting can be rigged with our FC-125 and T-125 mast cars.

This mast fitting is a simple solution to vertical pole storage problems. The VPC-125 retains the upper end of the stowed pole on the mast centerline. The chock slides on the track and eliminates rattle, vibration and binding of the pole end. All four cars fit 1-1/4" T-Track.



Part No.	Model No.
335100	VPC-125-250
335101	VPC-125-300
335102	VPC-125-350
335103	VPC-125-400

# POLE CHOCKS & SPINNAKER TRACK

Supplied By; American Rigging Supply, Inc.

## DECK CHOCKS

**Forespar**® deck chocks are used to stow our spinnaker poles or whisker poles on the deck. We strongly recommend poles be stored on deck for heavy weather. The "Ultra" deck chocks will accept all **Forespar**® pole fittings. These chocks have been designed and made from Marelon for rugged use while incorporating a "snag-proof" low profile.

DC-2



DC-TS



DC-2-S



DC-TS-S



Part No.	Model No.	Description
300002	DC-2 "ULTRA"	(For UXP, UTR, GP & UGPS end fittings)
300013	DC-TS "ULTRA"	(For TS & UTS end fittings)
300028	DC-TS-S	(Stainless steel, for UTS & TS ends)
300029	DC-2-S	(S. steel, for UXP, UTR, UGPS & GP ends)

## STANCHION MOUNTED POLE CHOCKS

Clear the decks! Now you can stop stumbling over deck mounted poles. These chocks are molded from durable, weather-resistant urethane and mount easily onto 1" stanchions — no drilling necessary. For poles 2" to 3-1/2" in diameter. (Chocks are sold individually — two chocks are needed for each pole.) For spinnaker or whisker poles. Ideal for reaching struts!



Part No.	Model No.	For Pole Diameter
300050	SC 200	2"
300042	SC 250	2-1/2"
300043	SC 300	3"
300044	SC 350	3-1/2"

## MAST MOUNTED CHOCKS

(For Vertical Pole Mounting on the Mast)

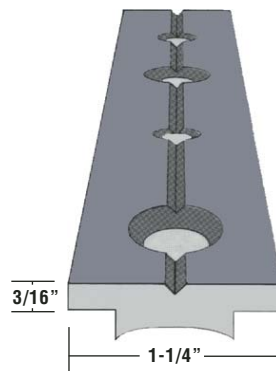
Molded from durable high tech urethane, these chocks allow for stowing the pole vertically against the face of the mast. Off the deck and out of the way! Two MPC chocks mounted 2-3 feet apart will help stop the pole from rattling.



Part No.	Model No.	Description
300070	MPC 200	2" Mast Pole Chock
300071	MPC 250	2-1/2" Mast Pole Chock
300072	MPC 300	3" Mast Pole Chock
300073	MPC 350	3-1/2" Mast Pole Chock
300074	MPC 400	4" Mast Pole Chock

## T-TRACK 1-1/4"

**Forespar**® offers anodized aluminum T-track in one standard size. Track comes pre-drilled with alternating pin-stop and mounting holes. The base of the track is gently curved to better accommodate mast surfaces. Available lengths — 4', 6', 8', 10' and 20'. The recommended fasteners are 5/16" x 3/4" Flat-head machine screws. Silver Anodized.



Part No.	Model No.
339003	T-Track (per ft.)

## ALUMINUM TRACK STOP — AS-125

Anodized aluminum construction prevents the cracking and shattering common with plastic stops.



Part No.	Model No.
339002	AS-125