



## HOYT JIB BOOM

As your boat bears off downwind and sheets are eased, the Hoyt Jib Boom™ maintains precise control of the jib's leach. This results in remarkable performance improvement and ease of handling.

Sail area in the jib has been scientifically assessed to be twice as effective in producing drive to windward as sail area in the mainsail. This is directly related to the fact that the jib has a clean leading edge, whereas the leading edge of main is compromised by the presence of the mast. But the efficiency of the jib drops dramatically as soon as the jib sheet is eased out, because leech tension is immediately lost - the top of the sail twists off with a direct loss of power. And dead downwind the jib just slats around and makes a nuisance of itself. The Hoyt Jib Boom corrects this by doing for the jib what the boom vang does for the mainsail - holding down the clew, maintaining leech tension, and there by creating an efficient off-wind sail. The block at the end of the boom provides 2:1 power, which eases the trimming load, and dead downwind the boom becomes a built in, self jibing

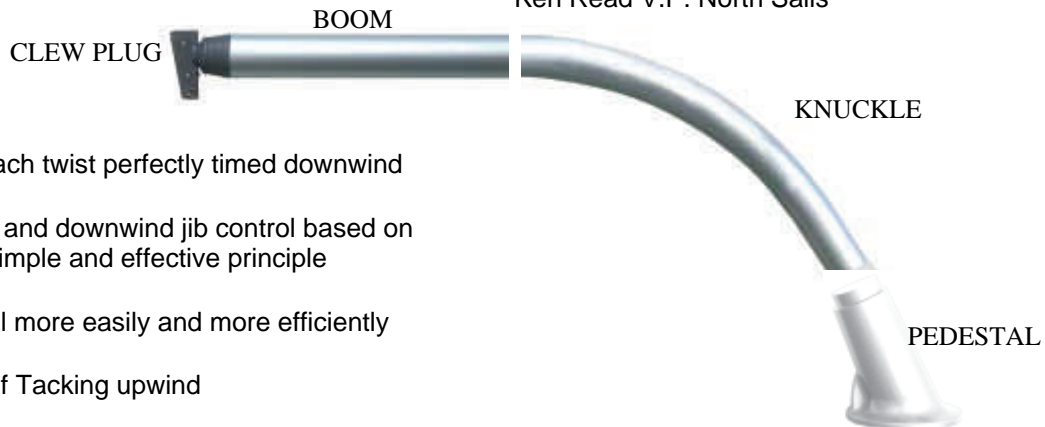


**Proven on over 1,000 sailboats and numerous transoceanic passages.**

**Perfect trim of your 100% self-tacking jib Wing and Wing downwind**

**Winner of SAIL Magazine award for Rigging**

“The Hoyt Jim Boom™ is one of the best cruising innovations I have seen or used.”  
Ken Read V.P. North Sails



- Leach twist perfectly timed downwind
- Up and downwind jib control based on a simple and effective principle
- Sail more easily and more efficiently
- Self Tacking upwind

The typical pedestal base placement (center of the pedestal base) is 10% aft of the headstay. This is not a critical location, but rather a “Rule of Thumb”. Various obstacles can obstruct the pedestal base position. All knuckles are bent to 57°. All knuckles are bent to 57degrees. All pedestals are set at 23degrees. All angles are calculated on a perfectly flat and level deck. Wedges will be required on many installations to make up for deck camber. A universal black molded urethane wedge which can be cut to fit is available from Forespar®

“Hundreds of Island Packets with these Hoyt boom™ staysail rigs have now logged countless miles cruising worldwide in all varieties of conditions. I'd be hard pressed to improve on any aspect of this setup and would heartily recommend it to all cruising sailors”  
Bob Johnson—President/CEO Island Packet Yachts

## HOYT JIB BOOM cont

### Q & A

The Hoyt free standing jib boom system has great sales potential in the aftermarket-rigger / installer arena. They may require professional installation on some boats. This need is dictated by the boats deck layout and design as well as the individual's degree of mechanical ability. Hoyt Jib Booms may not be suitable on some boats.

Here's the feed-back / questions we have generally received to date:

**Q.** How high is the inboard (clew) end off the deck?

**A.** This height is variable as the "kit" length may be cut back, thus lowering the height. Also, deck angles/wedges may change this height dimension.

**Q.** Will the boom clear my lifelines / stanchions when out 90o downwind?

**A.** Yes, Gary Hoyt must have thought of this. As the boom is eased out, the angle of the pedestal and knuckle (bent portion of tube) both work to "lift" the boom so as not to pull the leach of the headsail. This lift will allow the boom to clear the lifelines. If not, a teak base/riser may be needed to raise the entire assembly up in order to clear taller stanchions. When centered, the height to the bottom of the knuckle at the start of the parallel tube/joint is 14" (250 series), 17" (300 series) and 21" (350 series).

**Q.** Do I need a backing plate for the pedestal base mounting bolts?

**A.** In most cases, yes. Fender washers may not be enough. If you have a cored deck or you can "flex" the deck simply by walking on it, then you may need to consult a rigger and possibly need a backing plate. Most decks in the area the pedestal would be mounted already have a "stringer" to aid in headstay/stem loading. Usually this stringer is on the centerline. On many boats, this area is also reinforced to accept deck winches or anchor windlasses. In any case, a backing plate should be used.

**Q.** How many have been used on boats before?

**A.** We have supplied Island Packet Yachts with well over 800 Hoyt systems over the last 4-5 years. The Alerion Yachts have also used them since their inception. There are over 100 Schock Harbor 20's using them and Mr. Hoyt has had the same concept used on free-standing booms on Escape sailboats and Expo trainers for at least 5 years. The concept is not "new" or untried.

## HOYT JIB BOOM Cont.

### INSTALLATION

We strongly recommend that this product be professionally installed. For a list of Dealers go to [www.forespar.com](http://www.forespar.com).

The deck pedestal for the Hoyt Jib Boom™ is installed using stainless steel 5/16-18 FHMS of a suitable length for your deck. A wedge plate made of teak, aluminum or hard plastic (Optional black shim/wedges are available from Forespar®. Part #313155 sold in pairs) may be required to shim the base on some decks. This is a variable that must be addressed for your specific deck angle and installation.



A backing plate, which is at least the same diameter as the pedestal, should be used on the underside of the deck. This backing plate serves to spread the fastener load, and establish a flat hard surface for the washers and nuts. The backing plate can be made of teak, aluminum, stainless steel or a hard plastic such as ABS or Nylon.

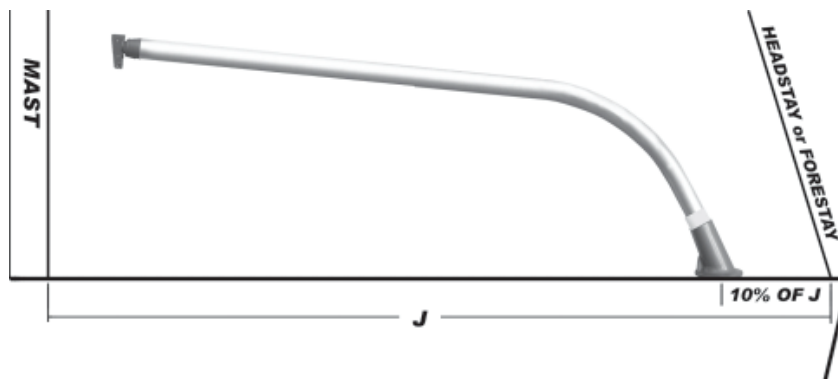
The backing plate must be of sufficient thickness so as not to deform from the fastener loads. Structural bedding may be used as necessary under the wedge plates and backing plate to fill voids from deck contours. Use the bolt circle of the pedestal, which has been supplied, to drill through the deck and backing plate. Use the Loc-Tite® or Nylok nuts on all of the stainless steel machine screws. Be sure to bed thoroughly.

Use the drilling guide/template supplied to drill the holes for the boom to knuckle joint. Be sure to align the indexed edge of the template to the joint (tube to tube interface on the sleeve of the knuckle) and tape in place. Drill one hole and install a fastener (rivets supplied or machine screws if you choose) before drilling the remaining holes.

Be sure to check for clearance of deck hatches, vents, stanchions and forward lower shrouds. The boom must be allowed freedom of movement through 180°.

Part Number	Jib Boom Size	Boom Tube Length	Tube Diameter	Knuckle Length	Suggested Max 'J'	Pedestal Diameter	'A' Dimension	Base Diameter	Bolt Circle	Fasteners
313101	250	6'	2" OD	2.25'	10'	7"	14"	7"	5 15/16"	5
313102	300	11'	3" OD	2.5'	13'	7 3/4"	17"	8"	6 7/8"	5
313103	350	13'	4" OD	2.75'	17'	8 3/4"	21"	7 3/4"	7 1/2"	6

Dimensions:



**Forespar®**

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## HOYT JIB BOOM cont

### #313155 PEDESTAL SHIM OPTION

The Hoyt Jib Boom Pedestal shims option allows for a maximum angle of 60 (when both shims are used) to help the installer get the pedestal base as level as possible. The shims come in pairs and are designed to fit all three Hoyt boom pedestal base sizes. They are scored for the smaller sizes and can be cut down with a razor knife to fit the smaller diameter pedestal bases.

The shim pair can be rotated to reduce the effective angle to 0o or any angle between. A single shim will give you a 3o maximum angle. Installations on decks with an angle greater than 6o will require a second set or custom shims made of teak or other suitable materials. These may need to be furnished by a local rigger/installer. The shims are molded in urethane and are available in black only. #313155 deck shims are sold in pairs



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