



# Selecting Your DOL-Fin X-20 Monofin Options



Congratulations, you are on your way to purchasing the most advanced monofin hydrofoil technology in the world. At Smith Aerospace Corp., we are very pleased to offer freedivers a hydrofoil based propulsion system that is customized to a customer's biometrics and preferences for fit and function.

Once you have made the decision to purchase a DOL-Fin X-20 monofin, you will need to decide on a shoe size for it. The DOL-Fin X-20 uses Shimano SPD shoes for the foot interface. These shoes are available in integer sizes Euro 36-48. Sizes 36-39 use the Shimano WR-35 shoe and are white in color with black soles. Sizes 40-48 use the Shimano RT-32 shoe and are black with grey trim and black soles. These shoes incorporate a removable foam shoe insert. Removing the foam inserts from the shoes opens up more width to accommodate the use of neoprene socks, which divers often wear for thermal protection from cold water. This method can be very comfortable for accommodating neoprene socks up to 3mm thick without increasing the shoe size. Since the shoes are actually easier to rinse clean with fresh water after diving when the shoe inserts are removed, this has proved to be a very popular configuration for diving. Cold water divers using neoprene socks thicker than 3mm have advocated sizing shoes slightly large to maintain better circulation in the feet. This issue is more critical for small shoe sizes than for large shoe sizes.

The best assurance of proper fit is to go someplace where you can try on the shoe while wearing the thickness dive sock you intend to use when diving. Shimano shoes are carried in many bicycling and sporting goods stores world-wide. At these locations, you may be able to try a representative shoe for proper fit before you finalize your decision. **Customers should utilize this risk-reduction option.**

You will also need to select the span of your DOL-Fin's hydrofoil fin blade. There are three standard sizes that reference the center section of the hydrofoil, which is also the span of the fin blade when folded for traveling. The fin will have 6 inch fin tip extensions deployed from each end of the center foil section when swimming. The standard sizes are M=24<sup>3</sup>/<sub>4</sub>", L=29<sup>3</sup>/<sub>4</sub>" and XL=34<sup>3</sup>/<sub>4</sub>" (inches). Custom sizes can be produced up to 35<sup>3</sup>/<sub>4</sub>" and the fins are swappable if more than one fin size is to be used for different dives.

The following "Biometrics" table was developed to help identify an appropriate standard hydrofoil size for customers. These suggestions are based on engineering estimates of strength and drag for persons of a given height and weight. You may want to bias toward a larger or smaller fin size based on where your index is in the table, and on your leg and core strength. You should consider the dimensions of your luggage and have a plan in mind for how you intend to pack your DOL-Fin X-20 for traveling. The size 'XL' fin may require extra-long luggage, but will fit nicely in a 36" duffel bag with the foil removed. Also, shipping may be affected to some locations.

Biometrics	5' 0"	5' 3"	5' 6"	5' 9"	6' 0"	6' 3"	6' 6"	6' 9"
100 lb.	M	M	M	M	M	M	-	-
120 lb.	M	M	M	M	M	M	M	-
140 lb.	L	L	L	L	L	L	L	L
160 lb.	L	L	L	L	L	L	L	L
180 lb.	L	L	L	L	L	L	L	L
200 lb.	L	L	L	L	L	L	L	L
220 lb.	-	XL	L	L	L	L	L	L
240 lb.	-	-	XL	XL	L	L	L	L
260 lb.	-	-	-	XL	XL	XL	XL	XL
280 lb.	-	-	-	-	XL	XL	XL	XL

The guidelines in this help sheet are a suggestion only. Ultimately, it is the customer's responsibility to decide on what sizing parameters will be most appropriate for their intended uses of the equipment. Smith Aerospace Corp. accepts no responsibility that the suggestions presented will be ideally optimized or acceptable to a customer's expectations for performance or fit and feel of the product.



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## Shipping Information [02/20/12]

Please note that we are presently unable to ship DOL-Fins to China, Russia, Estonia, Ukraine and Czech Republic.

Shipping rates for single parcel delivery through government operated mail systems to several common destinations are provided in the tables below. These rates are current as of the writing of this document, but may change in the future if the parcel rates change. Depending on the destination, insurance for the full value of the product may not be available through this low-cost option. However, to date we have had no problems using these services.

Also note that shipping does not cover any local taxes or duties that may be imposed upon international shipments before these agencies will release your package from Customs for delivery to you. The only tax that Smith Aerospace Corp. can collect directly is Arizona State's Transaction Privilege Tax for the city of Sahuarita (9.1%), which only applies to sales having shipping destinations within the state of Arizona.

Destination	Shipping Charge*	Insurance Limit
US States	\$35	\$1700
Puerto Rico	\$40	\$1700
Bahamas	\$80	\$1458
Canada	\$75	\$1700
Mexico	\$80	\$1700
Philippines	\$95	\$1700
Australia	\$90	\$1700
New Zealand	\$85	\$1025
Taiwan	\$85	\$1350
Japan	\$90	\$1700

Destination	Shipping Charge*	Insurance Limit
UK	\$80	\$650
France	\$75	\$650
Germany	\$70	\$500
Greece	\$75	\$650
Italy	\$75	\$650
Israel	\$90	\$1700
Spain	\$75	\$650
Portugal	\$75	\$650
Egypt	\$85	\$1685
UAE	\$90	\$1700

\* Shipping Charge may be subject to change without notice. All prices are in US dollars.

If you desire to use a more secure private shipping service such as FedEx, and/or a service with higher insurance limits, or if your location is not represented here, please contact us and we will do what we can to get you the information you need to make an informed shipping decision.

To place your pre-order, print, fill out and sign the following 3 pages of forms for "Experimental Equipment Ordering and Terms". They can be mailed in to Smith Aerospace Corp. along with a check for the down payment. The forms should be scanned and e-mailed to [smithaerospace@hotmail.com](mailto:smithaerospace@hotmail.com) if outside the US to compensate for mail system delays. Alternatively, payments can be made electronically through PayPal to the same e-mail address. Orders accompanied by a check or bank transfer will receive priority status with processing order based on the date of postmark or money transfer. Standard reserve positions for those submitting credit card payments will be based on the date of payments received.

It is acceptable to submit a "DOL-Fin X-20 Pre-Manufacturing Order Form" form without deciding on the shipping method. This can be calculated and added to the form, at a later date, prior to the final payment. This will allow you to submit the forms and make your initial down payment to reserve your fin ordering position without any delays that may be necessary to define all the shipping information. To take this option, simply write TBD (meaning To-Be-Determined) in the fields for "Shipping" and "Total".

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**Experimental Equipment  
Ordering and Terms  
February 20<sup>th</sup>, 2012**



(The following pre-manufacturing order offer expires May 21<sup>st</sup>, 2012)

**Liability Release (Indemnification) Assumption of Risk Agreement**

Please read the following document carefully as your signature indicates that you are signing away certain legal rights. Print your name where indicated in the next paragraph. Initial the beginning of each following paragraph, and sign with witness at the end of the waiver.

I \_\_\_\_\_ DOB \_\_\_\_\_ (Print name and Date-of-Birth), hereby affirm that I have received sufficient training to be properly and thoroughly informed of the risks involved with water related activities including swimming, freediving/breath-hold and scuba diving activities and that this document is to warn me that dangerous conditions, risks and hazards do exist. Partaking in said activities has the potential to injure, maim, disable, or fatally wound the participant, and DOL-Fin swimming/diving is no different. While swimming or diving, injury or even death can come from many mechanisms including, but not limited to; environmental conditions such as currents, waves, surge, temperature and marine life; health and physical conditions such as heart problems, decompression sickness, air embolisms, barotraumas, hypoxia and loss of consciousness or loss of motor control (Shallow-Water-Blackout); equipment complications or equipment failure resulting in loss of mobility in the water and/or loss of consciousness; underwater entanglements and entrapments; etc....

\_\_\_\_\_ I agree to always freedive/scuba dive with a qualified and competent 'dive buddy' or safety diver.

\_\_\_\_\_ I agree that as a diver it is my responsibility to set standards to insure the safety of my diving equipment for the uses I subject it to and for which I rely upon it, and also to see that all equipment maintenance is properly done to meet those standards of safety.

\_\_\_\_\_ I understand that the DOL-Fin equipment is EXPERIMENTAL and has not been shown to, nor will I assume it to, meet any standards for components, or the equipment unit as a whole, to perform their functions without failure. Neither the manufacturer, designer, seller or instructor/instructions are certified by any agencies, public or private, as competent to perform their functions, nor do they warrant any materials or guidance as suitable for safe operation of equipment. Any operations conducted with DOL-Fin equipment, or otherwise, are at the sole discretion and responsibility of the operator for safety.

\_\_\_\_\_ I understand and agree that the manufacturer, designer, seller and instructor are released from liability and may not be held liable or responsible in any way for any injury, death, or other damages that may result from my use of DOL-Fin equipment and/or participation in diving/swimming activities.

\_\_\_\_\_ I understand that all diving and swimming related activities can be physically strenuous and can trigger dangerous physical reactions. I will not hold the released parties responsible if I am injured as a result of panic attack, heart attack, air embolism, stroke, hypoxia, hyperventilation, oxygen toxicity, decompression illness, drowning, or any other injuries that occur while using DOL-Fin equipment.

\_\_\_\_\_ I agree that it is my responsibility to deny use of my DOL-Fin equipment to any non-diver, or any diver who does not accept in writing and adhere to the terms of this or subsequent follow-on revisions of this Smith Aerospace Corp. "Liability Release (Indemnification) Assumption of Risk Agreement".

If any portion of this document proves to be locally non-legal or unenforceable, only that portion of the document is removed and the rest of the document will remain enforced.

Please mail completed order form marked: Attn: DOL-Fin X-20 Program, Smith Aerospace Corp.  
P.O. Box 130, Sahuarita AZ. 85629, USA



**Experimental Equipment  
Ordering and Terms  
February 20<sup>th</sup>, 2012**



(The following pre-manufacturing order offer expires May 21<sup>st</sup>, 2012)

\_\_\_\_\_ I have read and understand the contents of this form and by signing it agree to exempt, hold harmless and release all of the related parties as indicated herein from all liability, or responsibility whatsoever for personal injury, property damage, or wrongful death, however caused, including but not limited to the negligence of the Released Parties, whether passive or active; and in doing so, I understand that I am accepting liability for the outcome of my actions regarding use of DOL-Fin equipment.

**By signing this Smith Aerospace Corp. "Liability Release (Indemnification) Assumption of Risk Agreement", you are certifying that you are a knowledgeable and qualified diver of legal age (18 or older) and that you accept the terms of this Agreement. This agreement must be signed before any hardware can be delivered.**

**Print Name:** \_\_\_\_\_

**Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

The person signed above is known to me to be legally competent to agree to this contract.

**Witness Print Name:** \_\_\_\_\_

**Witness Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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**Experimental Equipment  
Ordering and Terms  
February 20<sup>th</sup>, 2012**



(The following pre-manufacturing order offer expires May 21<sup>st</sup>, 2012)

**DOL-Fin X-20 Order Form:**

I, \_\_\_\_\_ (print name) agree to enter into a sales contract with Smith Aerospace Corp. for acquiring experimental DOL-Fin monofin equipment. I agree to purchase the below defined experimental monofin(s), hereafter to be known as DOL-Fin X-20, within this document. The balance plus shipping and any taxes or duties that may be owed to Smith Aerospace Corp. will be due before the shipment of the product(s). Additionally, customers are required to sign and comply with the terms of the "Liability Release (Indemnification) Assumption of Risk Agreement". Smith Aerospace Corp. will not ship hardware without first receiving these documents signed by the customer receiving the hardware.

I understand that the completion of specific equipment is subject to the availability of parts in the sizes ordered, and Smith Aerospace Corp. cannot guarantee delivery by a specific date. Based on previous experience, it can sometimes take a couple of months for some ordered parts of specific sizes to become available when supplies are depleted.

Prior to any special ordering of parts for a customer's order or the final assembly or shipment of a customer's order, and at a customer's specific request, Smith Aerospace Corp. will cancel the order and return the initial payment as received by Smith Aerospace Corp. to the customer via PayPal transfer, less any and all PayPal transaction fees accrued by the transaction processes. Aside from this, sales are final.

**Note that Euro sizes 36 to 39 will use a white color shoe, and sizes 40 to 48 will use a black color shoe.**

\*Foil Span refers to center foil section (i.e.-folded fin span). See sizing matrix for details. Note that size 'XL' may have shipping restrictions. Contact Smith Aerospace Corp. for availability of shipping options and costs.

\*\*Price is subject to change without notice. Contact Smith Aerospace Corp. for the latest pricing information.

Model	Euro Sizes [ 36 : 48 ]	Foil Span* [M, L, XL]	Quantity	Price / Unit	Sub-Total
DOL-Fin X-20				\$890 (US)**	
Extra Shoes		N.A.		\$100 (US)**	
Extra Fin (s)	N.A.			\$250 (US)**	
<b>Promotion Code / Discount Code</b>				<b>Discount ( % or \$ )</b>	<b>Discount (\$)</b>
<b>Sub-Total with Discount</b>					
<b>Down Payment (NLT 50%)</b>					
<b>Tax (9.1% Only Applies in Arizona)</b>					
<b>Shipping</b>					
<b>Balance Due w/ Shipping</b>					
<b>Total</b>					

By signing this agreement, you are certifying that you are a knowledgeable and qualified diver of legal age (18 or older) and that you accept the terms as specified herein and also the terms of the accompanying Smith Aerospace Corp. "Liability Release (Indemnification) Assumption of Risk Agreement". Unsigned orders will not be processed.

**Print Name:** \_\_\_\_\_

**Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

The person signed above is known to me to be legally competent to agree to this contract.

**Witness Print Name:** \_\_\_\_\_

**Witness Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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(The following pre-manufacturing order offer expires May 21<sup>st</sup>, 2012)

**Shipping Information:**  
(Please Print Clearly)

Date: \_\_\_\_\_

First Name: \_\_\_\_\_, Last Name: \_\_\_\_\_

Street Address 1: \_\_\_\_\_

Street Address 2: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

State or Province: \_\_\_\_\_

ZIP / Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

Phone Number: \_\_\_\_\_, Alt. Phone Number: \_\_\_\_\_

E-Mail Contact: \_\_\_\_\_

**Confirmation of Order Content:**

Model	Euro Sizes [ 36 : 48 ]	Foil Span [M, L, XL]	Quantity
DOL-Fin X-20			
Extra Shoes		N.A.	
Extra Fin(s)	N.A.		

Postal Service is standard per rates listed. Please, do not select FedEx or Other here unless you have paid for the upgrade, or will be paying for the upgrade before product shipment.

**Shipping Method Selected:** Postal Service, FedEx, Other \_\_\_\_\_

**Comments:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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