



**SPAR's cost estimating models are designed to provide fast, easy, and accurate estimates of new ship designs and manufacturing and**

**assembly processes. The models have been used to estimate the costs of commercial and naval vessels, both foreign and domestic. They are the products of over 35 years of experience in the ship building industry and dealing with actual shipbuilding costs.**

**Three models accommodate different hull forms:**

- 1. Mono-hulls,**
- 2. Catamarans, and**
- 3. Trimarans.**

#### **Estimating Ship Design, Engineering and Construction Costs**

- Estimates reflect differences in modern production methods
- Estimate savings from multi-ship procurement programs
- Estimate impact of inflation upon ship systems by material commodity
- Estimate and compare manpower requirements by SWBS group.

#### **Estimating Alternate Design Options**

- Estimate alternative physical ship dimensions
- Estimate alternative structural materials & configurations
- Estimate alternative propulsion systems
- Estimate alternative outfit equipment & systems
- Estimate alternative electrical generation and distribution systems
- Estimate alternative piping systems

## **Estimating Impact of Alternate Build Strategies**

- Traditional shipbuilding versus virtual shipbuilding
- Impact of make or buy
- Estimate savings from application of extended equipment and outfit component modules

## **Estimating Cost Risk**

- Estimate technical cost risk
- Estimate production cost risk
- Estimating material & equipment cost risk

## **Estimating Life Cycle Costs:**

- Estimate annual financing costs and return on equity
- Estimate annual operating, maintenance & administrative costs
- Estimate impact of changes in fuel costs and trade/mission requirements upon operating costs
- Estimate impact of crew size upon operating costs
- Estimate life cycle costs (LCC)
- Estimate return on investment (ROI)

Estimates are generated at approximately the three digits SWBS level of detail. Some areas even more detailed. A very wide range of graphical charts and graphs are generated by the cost models. Detailed tabular reports also are available.

Please visit our web site for more detailed product information and to request a quote. If you have any questions or need application assistance, please do not hesitate to contact SPAR at +410.263.8593.

