

**Flying Carpet - Shipbuilding/ repair**  
*maneuverable platform for ship repair workers*

Flying Carpet is a rapidly deployed, stable, easily controlled, suspended work platform to maneuver workers, equipment, and tools along ship surfaces.

Annual Sales Forecast for USA * 				Innovation Status		Idea
Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling	Development Status	Proprietary Protection Status	Concept Score
Ultra Low	\$0	\$33,000	\$270,000	<b>4 of 5</b> Manufacturing Ready	<b>5 of 5</b> Granted Patent Claims	<b>52</b> <small>29 is Average</small>
Low Support	\$350,000	\$1.3 M	\$3.3 M			
Medium Support	\$2.8 M	\$9.2 M	\$20.5 M			
High Support	\$8.2 M	\$24.9 M	\$54.8 M	<b>Remaining Time &amp; Cost to First Sale</b>		
Ultra High	\$14.8 M	\$46.8 M	\$100.8 M	< 6 months	\$10k-\$100k	

**Flying Carpet - Shipbuilding/ repair - maneuverable platform for ship repair workers**

*Final Decision Maker: Ship Production/ Repair Supervisor*

Allows any platform the ability to move in three dimensional space with ease.

The Flying Carpet is a platform of any shape, size or material that is suspended by a four point cable system. With a simple joystick and the specialized control software it can be safely moved anywhere within the boundaries of the four points. The unique cable rigging design makes the platform exceptionally stable. The flying carpet uses a four point cable system with each point having at least one winch. The winches are controlled by a central PC with a simple joystick. The Flying Carpet gives you the ability to safely move in 3 dimensional space with simple movement of a joystick either on the platform or remotely. The platform can be maneuvered so that it is always exactly level (parallel to the ground) or in any of the six degrees of freedom.

The Flying Carpet can be used for just about anything that you can think of. It is a great alternative over rigid scaffolding, suspended inline scaffolding, or a single cable. It could be used to move a rock star (or whole band) on a plexiglass platform out over the crowd, for construction (e.g., precise positioning of huge sewer pipes or structural members safely with no people manually aligning them), to move any object over a surface where it may be desirable not to be on the ground, or even for a thrill ride at amusement parks like Kings Island.

The Flying Carpet has seven patents and the control software and free licensing through NIST. A full- scale, 'looks- like, works- like' unit has been built and tested in the NIST Manufacturing Engineering Laboratory. Also, numerous other small- scale models have been created to prove feasibility of this device.

\$120,000 for one Flying Carpet

**Seeking: Research, Purchase, Investment, Manufacturing/ R&D**

- Email Inventor(s)
- [Link to Website With More Info](#)
- [Link to YouTube Video](#)
- Inventor(s) Open to Consulting Requests
- Agree to use Fair Contract
- Invention can be exported

\* Consumption sales forecast. Does not include "Random" events or  Inventory Fill . Forecast is for Year 1 for Large or Year 2 for Small Companies. Forecast should be read as ...With Low marketing support there is an 80% odds of achieving sales of at least...



**Report Assumptions and Inventor(s) Commentary**

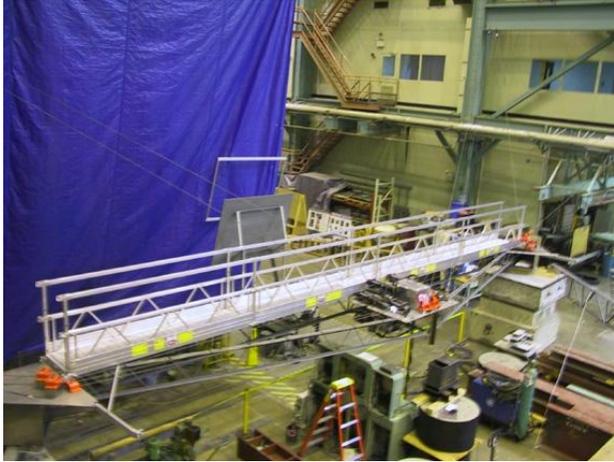
Inventor(s) Assumptions	"Most Likely" Estimate	Confidence	Inventor(s) Commentary Data Source or Basis for Assumptions
# of Possible Final Purchasers	<b>3,534</b>	<b>60%</b>	Used supplied reference data + multiple facilities within shipyards.
Revenue per First Purchase	<b>\$120,000.00</b>	<b>60%</b>	Most shipyards would most likely purchase a Flying Carpet. Pessimistically, they buy none but, optimistically, they see tremendous benefit and outfit 3 drydocks/ piers.
% that will Repeat	<b>10%</b>	<b>40%</b>	One Flying Carpet is equivalent to a boom lift where benefit is seen after use. Within a year, a small number will most likely purchase another one.
Number of Annual Repeats	<b>0.2</b>	<b>30%</b>	No real basis except that this is a large tool investment and time is needed to view benefits. One year may not be enough time to analyze benefits and make another purchase.
Revenue per Repeat Purchase	<b>\$12,000.00</b>	<b>40%</b>	Repeat purchase times repeat purchase estimated cost.
Reseller (Trade) Margin	<b>N.A.</b>	<b>N.A.</b>	
Producer Profit (EBITD)	<b>17%</b>	<b>50%</b>	Most likely = \$20K/ \$120K. High = \$40K/ \$120K. Low = \$10K/ \$120K.

Innovation Status			
<b>Development Status</b>	<b>4 of 5 Manufacturing Ready</b>		Full Scale (and smaller scale) prototypes have been built and tested at NIST in a 90 ft high bay x 75 ft wide. Remaining is to test it in a drydock or pierside.
Cost to First Sale (remaining)	<b>\$10k-\$100k</b>	<b>60%</b>	Previous estimate of installation into AM shipyard.
Time to First Sale (remaining)	<b>&lt; 6 months</b>	<b>60%</b>	The time it takes to build a unit is small since manufacturer simply needs to duplicate prototype for first sales.
Confidence in Concept Claims made in description		<b>60%</b>	In 2007, the Flying Carpet was chosen as a pilot process and will be the focus of the remainder of this estimate.
<b>Proprietary Protection Status</b>	<b>5 of 5 Granted Patent Claims</b>		Government owned and maintained patent. Licences are available.

Concept Score & Diagnostics						
 <b>Merwyn Concept Score</b> With Confidence Bands			<b>Concept Diagnostics</b>	<b>Red</b>	<b>Yellow</b>	<b>Green</b>
			Percentile Group	Bottom 40%	Middle 40%	Top 20%
<b>Pessimistic</b> 80% odds of at Least	<b>Most Likely</b> 50% odds of at Least	<b>Optimistic</b> 20% odds of at Least	<b>Overt Benefit</b>			
			<b>Reason to Believe</b>			
<b>50%</b>	<b>52%</b>	<b>53%</b>	<b>Dramatic Difference</b>			

**Inventor Commentary & Alternative Development Scenarios**
**Inventor(s) Sales Goals**

Minimum Goal	\$1.2 M	Current GOAL	\$3.6 M
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*The full scale Flying Carpet prototype suspended in the NIST high bay shown positioning with 7 mm tolerance and holding a plate, jiggled to the Flying Carpet, into a mock ship hole*

**Inventor(s) Commentary:**

Final dec. makers are shipbuilding/ repair supervisors, workers, and perhaps rental equipment store owners and equipment purchasers. Sizes could accommodate one worker within ballast tanks up to 4 workers or more with their equipment and tools external to the ship. Many shipyard workers who saw the FC in operation could envision tremendous benefit to their operations. Welders need to have very stable platforms of which this device provides. We've built several similar systems.

**CURRENT SALES FORECAST**

Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	\$0	\$33,000	\$270,000
Low Support	\$350,000	\$1.3 M	\$3.3 M
Medium Support	\$2.8 M	\$9.2 M	\$20.5 M
High Support	\$8.2 M	\$24.9 M	\$54.8 M
Ultra High	\$14.8 M	\$46.8 M	\$100.8 M

**If MARKETING CONCEPT Improved**

(Increase Concept Score by +20 Points)

Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	\$0	\$45,000	\$370,000
Low Support	\$480,000	\$1.7 M	\$4.5 M
Medium Support	\$3.8 M	\$12.8 M	\$28.3 M
High Support	\$11.1 M	\$34.7 M	\$76.1 M
Ultra High	\$20.3 M	\$64.2 M	\$138.0 M

**If PRODUCT/ SERVICE Improved**

(Increase Repeat Rate & Number of Repeats by 30% and Revenue Per Purchase 20%)

Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	\$0	\$33,000	\$270,000
Low Support	\$350,000	\$1.3 M	\$3.3 M
Medium Support	\$2.8 M	\$9.3 M	\$20.6 M
High Support	\$8.3 M	\$25.1 M	\$55.0 M
Ultra High	\$14.9 M	\$47.2 M	\$100.9 M

**If MARKETING CONCEPT and PRODUCT/ SERVICE Improved**

(Increase Concept +20 Points, Repeat Rate & Number of repeats by 30% and Revenue per purchase 20%)

Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	\$0	\$46,000	\$370,000
Low Support	\$490,000	\$1.7 M	\$4.5 M
Medium Support	\$3.9 M	\$12.8 M	\$28.5 M
High Support	\$11.4 M	\$34.7 M	\$76.0 M
Ultra High	\$20.4 M	\$64.5 M	\$138.4 M

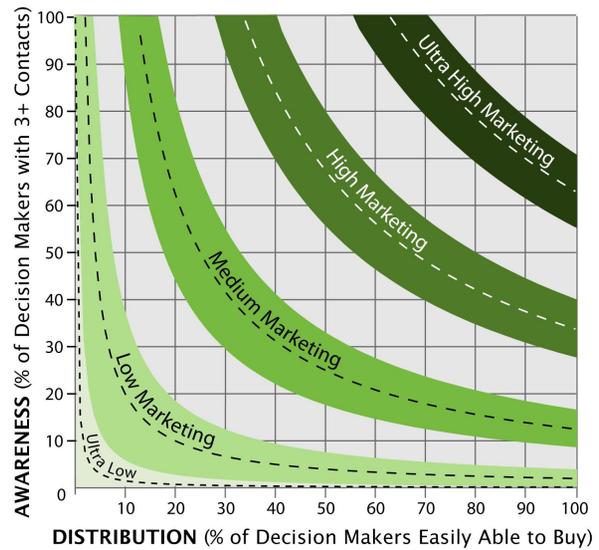


**Additional Details**

Fair Market Royalty (%)				
	Conservative - 80% Odds Royalty Percentage	Most Likely - 50% Odds Royalty Percentage	Aggressive - 20% Odds Royalty Percentage	
<b>At CURRENT State &amp; Status</b>	1.9%	3.7%	5.6%	
Sales & Marketing Support Level	Annual Inventor Royalty Revenue			3 Year Value to Inventor If 50% Odds
	80% Odds	50% Odds	20% Odds	
Ultra Low Support	\$1,000	\$3,200	\$6,800	\$9,600
Low Support	\$19,000	\$51,000	\$100,000	\$150,000
Medium Support	\$130,000	\$340,000	\$670,000	\$1.0 M
High Support	\$360,000	\$920,000	\$1.8 M	\$2.8 M
Ultra High Support	\$670,000	\$1.7 M	\$3.3 M	\$5.2 M

Sales & Marketing Support Level Assumptions				
Sales & Marketing Support Level	Sample Numbers		% Aware x % Distribution (Aware & Able)	Inventor Estimate of Odds
	% Distribution	% Awareness		
Ultra Low Support (Word of Mouth)	5%	3%	0.2%	90%
Low Support (Small Company)	20%	10%	2%	80%
Medium Support (Medium Sized Company)	50%	25%	13%	70%
High Support (Large Company)	75%	45%	34%	50%
Ultra High Support (Mega or Niche)	90%	70%	63%	30%

**Graph of EQUIVALENT (Awareness x Distribution) Combinations**



NAICS Industry Codes For This Invention
33661 - Ship and Boat Building

Patent Numbers that apply to this Product/ Service
6648102 B2

Inventor(s) PEDIGREE	
Years EXPERIENCE in related industry	<b>25</b>
GRANTED Patents	<b>5</b>
Licensing Deals SIGNED	<b>0</b>
Innovations that have SHIPPED	<b>0</b>

For USA Patents: Utility Patent = 7 digit number, Design Patent starts with D, Planet Patent starts with PP. Provisional Application "61/ xxx,xxx", Non provisional application "12/ xxx,xxx", Design patent application "29/ xxx,xxx"

**CAUTION:** This Merwyn Business Simulation Research Report includes no warranty or guarantee. Results and opinions should be considered rough and directional in nature. This is because the report is based upon inventor-supplied data and simplified modeling methods. If you are looking to invest, distribute, purchase or become involved with this innovation, in any way, we strongly urge you to validate the inventor data and sales forecasts BEFORE committing yourself or your resources. Merwyn Research, Inc. shall not be responsible for any liability or damages arising out of the failure to perform such investigation and validation. Changes in the concept description, product, pricing, or input assumptions will almost certainly change results.



**Additional Forecasts for Other Countries**

Annual Sales - Probability Forecast - for Canada 			
Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	\$0	\$3,600	\$30,000
Low Support	\$38,000	\$140,000	\$360,000
Medium Support	\$310,000	\$1.0 M	\$2.3 M
High Support	\$910,000	\$2.8 M	\$6.1 M
Ultra High	\$1.6 M	\$5.2 M	\$11.2 M

Assumptions: exchange rate of \$1.00 US = \$1.01083 CAN; population of 33,390,141

Annual Sales - Probability Forecast - for United Kingdom 			
Sales & Marketing Support Level	Conservative 80% odds of selling	Most Likely 50% odds of selling	Aggressive 20% odds of selling
Ultra Low	£0	£3,300	£27,000
Low Support	£35,000	£130,000	£330,000
Medium Support	£280,000	£930,000	£2.1 M
High Support	£830,000	£2.5 M	£5.5 M
Ultra High	£1.5 M	£4.7 M	£10.1 M

Assumptions: exchange rate of \$1.00 US = £0.50458 UK; population of 60,776,238

**Listing #:** USA.75.030909.003

**Page 5 of 5**

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