Hazelett Marine
The Next Elastic Mooring Solution
Hazelett Marine has been providing elastic mooring solutions for over 30 years

- Invented to reduce point loads on single point moorings
- Assisted movement towards conservation moorings
- Successfully implemented different applications like floating docks, floating solar and wave attenuators.
- Provided product and design expertise for thousands of installations worldwide.
Our business model focuses on designing and building solutions for our partner’s clients.
The commonality between our clients is that they need help with Mooring Designs and Solutions
The applicability of our products span a spectrum of markets

**Swing Moorings (Single Point Moorings)**
- Best solution in market
- Increase mooring field density

**Docks (Pontons)**
- Reduced point loads
- Increases dock life

**Floating Solar (Flottant Solaire)**
- Engineering Service
- More stable line loads

**Navigation Buoys (Aides à la navigation)**
- Smaller watch circle
- Lower peak loads

**Wave Attenuator (Atténuateur de vagues)**
- Increased energy absorption
- Flexible design
Our customers purchase from us all things needed to moor their project.
Through our team and our partners, Hazelett supports numerous mooring related services

- Mooring Design
- Mooring Engineering
- Mooring Installation
- Mooring Inspection
In Asia, our team helped transform a port into a dock

Project Summary:

Location: UAE
Dock Builder: Majestic Marine
Berths: 152
Usage: Commercial Fishing Vessels
Installation Date: 2015
### Project Summary:

- **Location:** Italy
- **Dock Builder:** Christo/ BulDock
- **Usage:** Walkable Art Installation
- **Installation Date:** 2016
In the United States we helped marinas increase the amount of moorings they could offer.

Project Summary:

Location: Vermont, USA  
Single point moorings  
Moorings: 137  
Usage: Commercial leasing  
Installation Date: 2015
The Hazelett Elastic Mooring was invented in the late 1970s to reduce peak loads on Swing Moorings (single point moorings)

- Reduces peak forces by 30-80%
- Allows 1-1 scope to increase mooring field density
- Enables pointed bow to wind position
- Greatly reduces mooring maintenance costs
Hazelett Marine offers custom solutions for a variety of environmental conditions

- Every project is unique
- A modular system that can be customized to meet unique needs
- Hazelett Marine sizing accounts for BOTH weight and length of vessel + environmental conditions
- Allows pointed bow to wind position
- Greatly reduces mooring maintenance costs
Hazelett Marine offers custom solutions for a variety of environmental conditions

- Rapid change in wind direction create peak load conditions
- Weight is accounted for in sizing because of momentum created during dynamic events
- The Hazelett Elastic is designed to absorb energy from dynamic events like wind gusts, wave etc and create a smooth transition
- A quad elastic system at a working load of 1,300kg at 100% stretch will absorb 19,000nm of energy!

Confidential
The Hazelett System is the premier elastic eco-mooring for boats on the market

The Hazelett force curve is unique compared to rope or other solutions because as it stretches it becomes more efficient at absorbing energy.

Working loads of 70-100% stretch for swing moorings compared to rope at rope at 20% stretch.

### PROS

ROPE

- Can be inexpensive
- Easier to maintain than chain
- Some elasticity

HAZELETT

- 30 year design life, 10 year recommended replacement cycle
- Resistant to marine growth
- Accommodates dynamic loading
- Works with most anchor systems
- Smooth progressive force curve

### CONS

ROPE

- 2-4 year replacement cycle
- Susceptible to marine growth
- Doesn’t accommodate dynamic events like wind direction change and rogue waves

HAZELETT

- Greater initial investment
- Should still be inspected
- Requires some initial design support
- Should not designed to make contact with boats or seabed
The Hazelett Marine offers custom solutions for a variety of environmental conditions

- In order to properly size a Hazelett System we consider the following parameters:
  - Length and Weight of vessel
  - Depth
  - Tidal Variation
  - Max Wind speed
  - Max Wave height
  - Current
  - Fetch

And design an appropriate system for your projects unique conditions
We’re extremely proud of our role in the conservation mooring market

- Largest North American manufacturer of conservation moorings
- Partnered with U.S Coast Guard, Marine Fisheries and other agencies on conservation mooring studies
Thank you for your time!

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