**Telescopic mooring device** with smooth **damping characteristics** adjusting its **length** according to changing water levels

**Application 1:**  
Mooring Pile for Floating Pontoons, Houses, Structures  
- Smooth Damping capacity  
- No visual impact (piles not to be seen)  
- Low maintenance  
- Length adjustment with changing water levels  
- No visual impact (piles not to be seen)

**Application 2:**  
Bow Mooring in Marinas (Big and Mega Yachts)  
- Clean and easy handling  
- Freeing up manoeuvring space  
- Secure regardless of water level  
- Suitable for various yacht sizes  
- Length adjustment with changing water levels  
- Neutrally buoyant at all water levels

**Application 3:**  
Swing Mooring Pile for Boats and Yachts  
- Smooth Damping capacity  
- Small swinging radius --> creating more mooring space  
- Neutrally buoyant at all water levels  
- Length adjustment with changing water levels

+ **High damping capacity**  
+ **Zero visual impact on marina**  
+ **More manoeuvring space**  
+ **Small swinging radius**
Sizes:
Telescope 1-step:
• Min. Length 2.5 m
• Lift = Length × 0.5

Telescope 2-step:
• Min. Length 2.5 m
• Lift = Length × 1.0

Models:
• 0.5 t
• 1.0 t
• 2.0 t
• 5.0 t
• 10.0 t
• 15.0 t
• 20.0 t + upon request

Anchored directly into seabed

4 x special rope with damping effect to limit lateral movement

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Telescopic Pile patented

Redering 2, Sizes and Models

Sizes:
Telescope 1-step:
• Min. Length 2,5 m
• Lift = Length x 0,5

Telescope 2-step:
• Min. Length 2,5 m
• Lift = Length x 1,0

Models:
• 0,5 t
• 1,0 t
• 2,0 t
• 5,0 t
• 10,0 t
• 15,0 t
• 20,0 t + upon request

Ball connection for smooth movement in all directions

Conventional pile driven into seabed

Slide-in telescopic unit

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F [ t ]
Sizes:
- Telescope 1-step:
  - Min. Length 3,0 m
  - Lift = Length x 0,5
- Telescope 2-step:
  - Min. Length 3,0 m
  - Lift = Length x 1,0

Models:
- 0,5 t
- 1,0 t
- 2,0 t
- 2,0 t
- 10,0 t
- 15,0 t
- 20,0 t + upon request
Sample application for bays and other locations (assumption: no breakwater)

**DualDocker Single Point Mooring & Telescopic Piles**

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**Eco-friendly: No anchor & chain dragging!**
Seabed remains largely undisturbed!

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**Telescopic Pile**
- 3 m
- 25 m
- 2460 m²

**Single Point Mooring**
- 10 m
- 25 m
- 3850 m²

**Required space with conventional buoys**
- 30 m
- 25 m
- 9500 m²

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**Megayacht 100 m**

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**25 m Yacht ... 450 m²**