Purpose
Why

- Reduce Package Movement
  - ROV Docking
  - Steady Sampling
- Remove Slack Conditions
- Alleviate Snap Loading
Methods of Compensation
Slack Tensioner

- Limited Range
  - +- 3.5 meters
- Multiple Sheaves
- Complicated Maintenance
- Complex Set Up
- Difficult Running
Example
Bobbing Crane

- Limited Motion
  - +-1.25 meters
- Fixed Installation
- Complicates Wire Path
No Example

☑️ sad face
Active Heave Compensation

- Electric and Hydraulic
- Expensive MRU
- High Accuracy
- Ship Survey
Example
The MRU
Expensive Piece of Kit

- $30K
- Calibration
- Placement
- Other Uses
- Out Put
The Survey
Ship CG
Overboarding Point
Method

- Simple Survey
- Calculation of Movement Around CG
- Lever Arms
Innovations
New MRUs

- Kongsberg Series 5
- Multiple Overboarding Points
New Concept

- Heave Sensor
- Small
- No Survey
- Place on any Sheave

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Questions