

Ampelmann Operations

Making offshore access as easy as crossing the street

Arctic Shipping Conference

October 17th, 2018

Floris Brands – Business Development Manager



AMPELMANN

Introducing Ampelmann



Established in 2008



Headquarters in Delft, the Netherlands



Production facility in Rotterdam, the Netherlands



8 offices worldwide



First ever company to introduce safe motion compensated

access systems to the offshore industries



300 personnel worldwide



Fully Lloyd's certified



World leader in safe full motion compensated offshore access



Track record in safe offshore access



4.6+ million safe people transfers



8.9+ million kg safe cargo transfers



60 systems



270+ projects



380.000+ safe landings



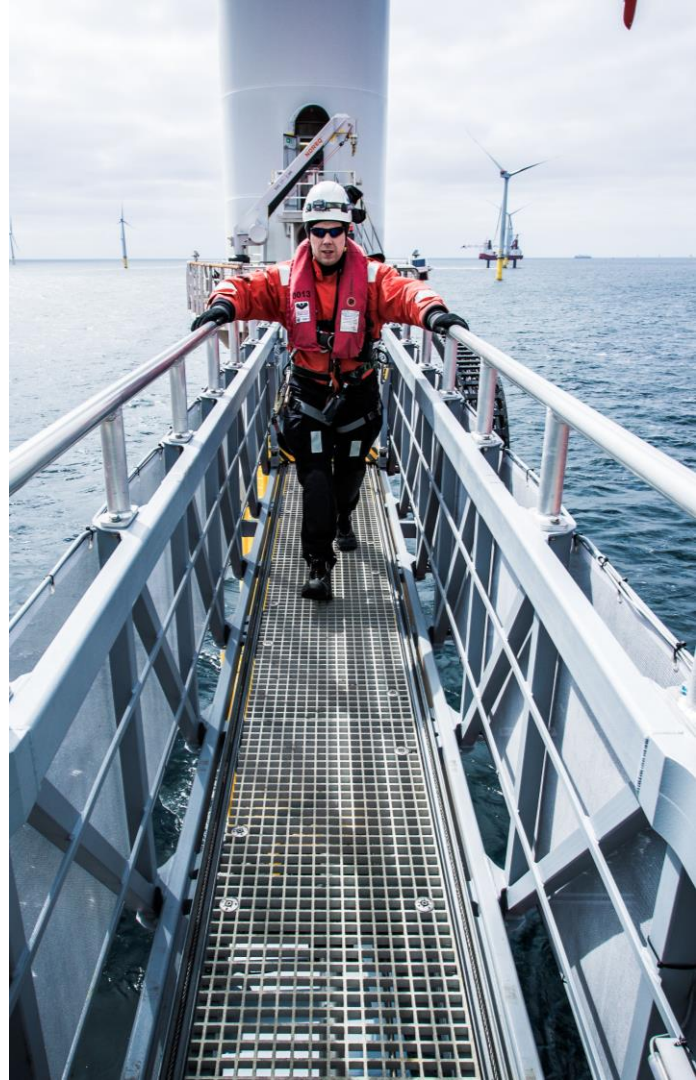
59.000+ project days



99.8% technical uptime in 2017

Our biggest focus is on safety

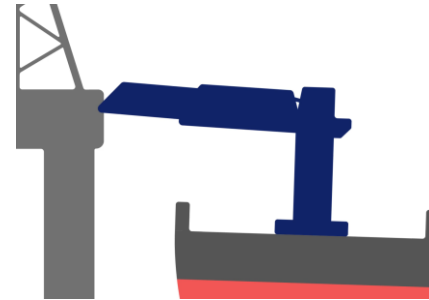
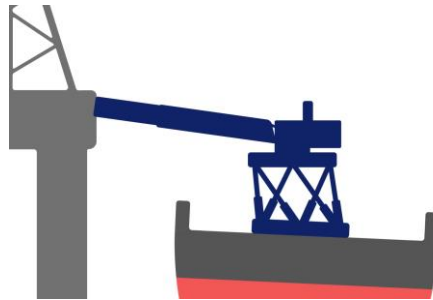
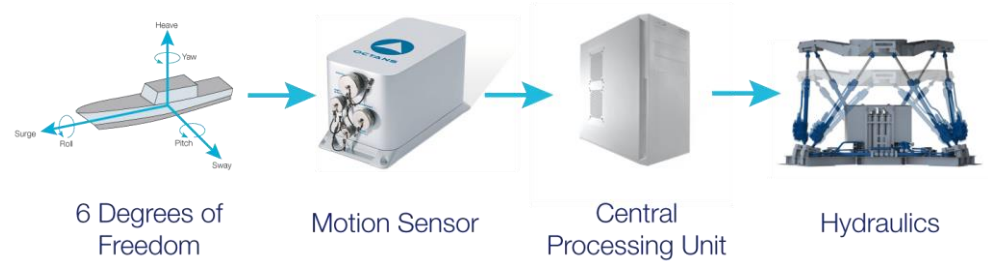
- Educated, trained and certified operators
- Hazid and Safety meetings before each project
- Certified by: Lloyd's, ISO 9001, ISO 14001
- All non-structural critical components fitted redundantly (FMECA)
- 24/7 service support
- Eliminating vessel motions through 6 DoF active motion compensation



Market leader in full active motion compensation

Compensating 6 degrees of freedom ensures:

- Safe and comfortable transfers due to fully stabilised gangway
- Easy and quick connection, due to less movement of gangway
- No friction = less damage to landing location
- Increases workability



6 degrees of freedom (Ampelmann) vs 3 degrees of freedom (other gangway providers)

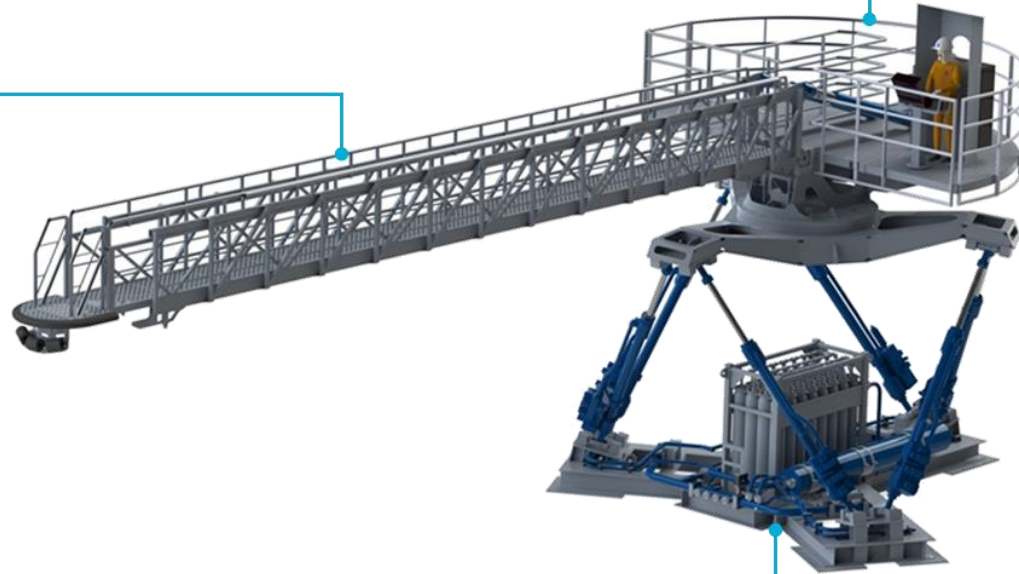


The Ampelmann system

TRANSFER DECK

GANGWAY

HEXAPOD



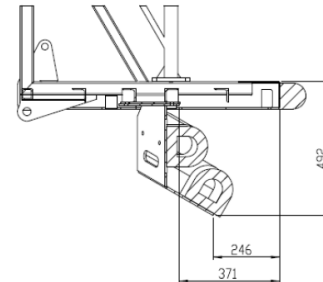
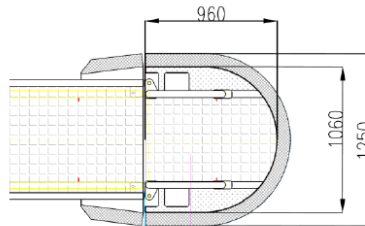
Ampelmann system in operation



Interface gangway to offshore structure

Gangway Tip

- **No** modifications to structure necessary
- Gangway tip will exert a max. force of 1000 kg (normal operations 200 ~ 400 kg)
- Inner width gangway min. 600mm
- Scoop to improve connection to structure



Project insight into performance every hour of every day

This is a sample report based on actual data

Project Details

ACME Windfarm construction A type 11 mth
Project Name
ACME Offshore
Customer

AM-2955.003
Project Code
ACME Searunner
Vessel

A-42
Hexapod

GXL-44 / Atex tip
Gangway

Sep/25/2016
Start Date

Aug/24/2017
End Date

215
Project Days Passed

118
Project Days Left

334
Project Duration

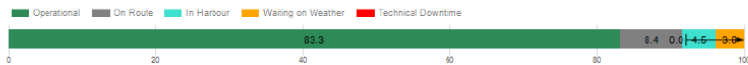
April 28, 2017
Date Created
February 1, 2017 - February 28, 2017
Period of Reporting

Ampelmann Contacts

Kris Benne
Operations Responsible

Daniela Klausner
Commercial Responsible

Time Distribution



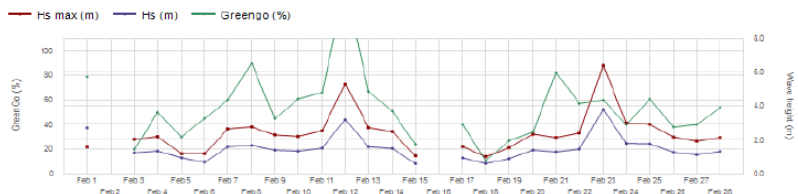
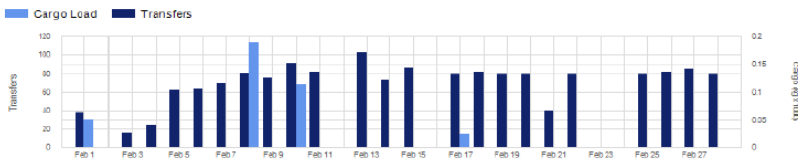
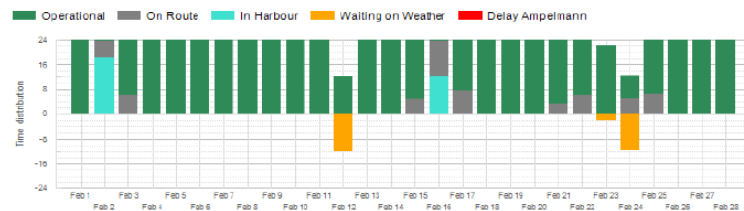
Time Distribution Reporting Period (Feb 1, 2017 - Feb 28, 2017)



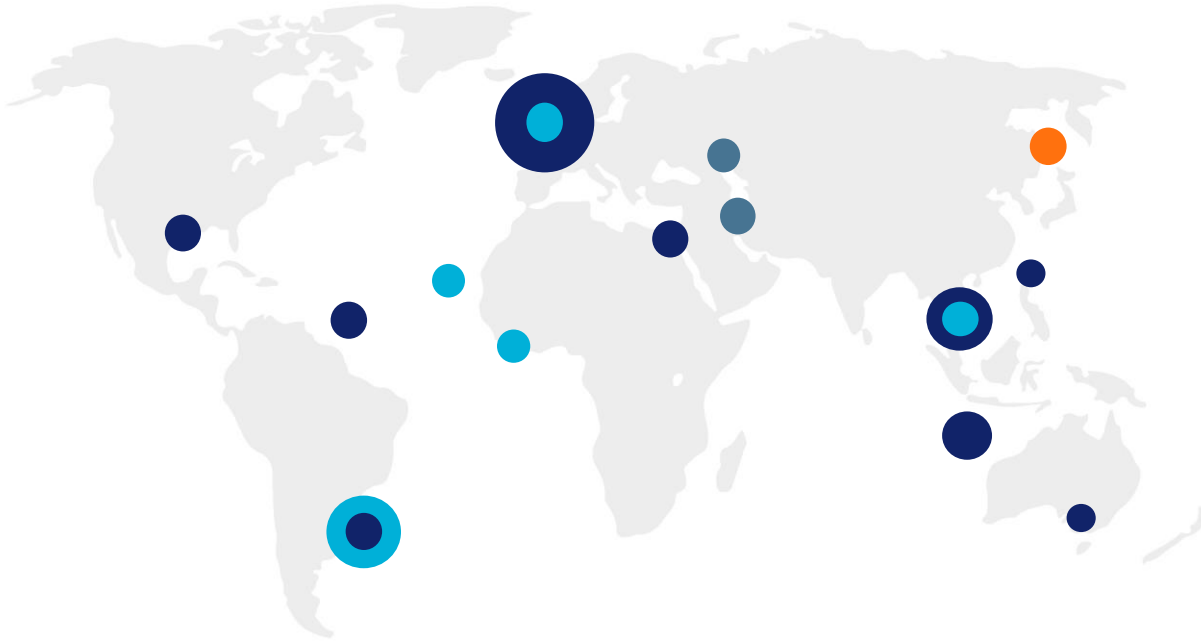
Time Distribution Project to Date (Apr 27, 2017)

| | Reporting Period | Project to Date | | Reporting Period | Project to Date |
|---------------|------------------|-----------------|--------------------|------------------|------------------|
| Available * | 96,2% | 95,5% | Operational | 23.3 days 83,3% | 179.9 days 83,6% |
| Unavailable * | 3,8% | 4,5% | On Route | 2.4 days 8,4% | 22.8 days 10,6% |
| | | | In Harbour | 1.3 days 4,5% | 2.8 days 1,3% |
| | | | Waiting on Weather | 1.1 days 3,8% | 9.7 days 4,5% |
| | | | Technical Downtime | 0.0 days 0,0% | 0.0 days 0,0% |
| | | | Total | 28 days 100% | 215 days 100% |

Reporting Period Day by Day



Each operations requires specific solution

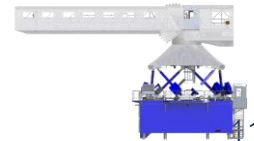
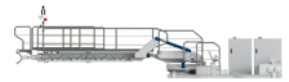


Walk-to-Work

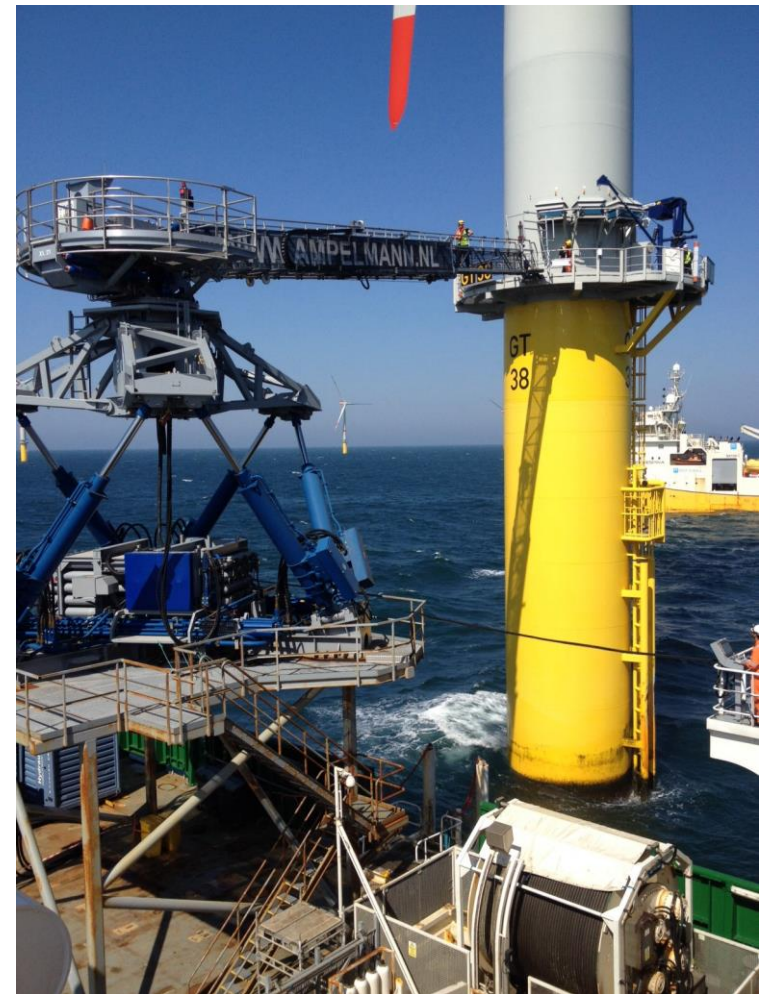
Crew Change

Ship-to-ship

Extreme cold conditions



A-type & E-type



- **Full motion compensation in rough waters**
No movement of gangway during operation

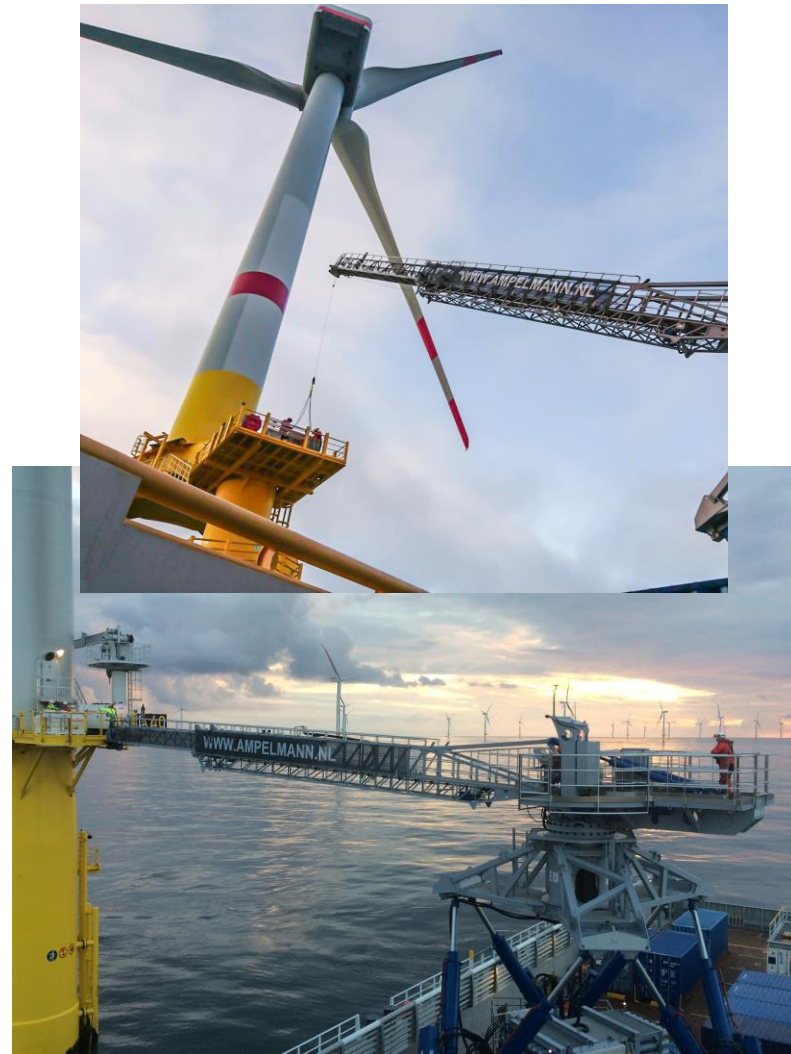


Movie E-type



E1000

- **Full motion compensation in rough waters**
No movement of gangway or crane during operation
- **Efficient operation**
Crane and gangway in one; change from people to cargo transfer mode in less than a minute
- **Large cargo loads**
Up to 1,000kg fully compensated lifting
- **Crane height**
Up to 35m from vessel deck



A400

- **Full motion compensation in rough waters**
No movement of gangway during operation
- **Optimal logistical flow**
Transfer of people and cargo up to 400kg
in Euro-sized units with electric trolleys
- **Stepless approach**
Cargo transport by elevator
- **Cost efficient operations**
Only one operator required



N-type

- **Full operational ability in extreme cold weather**
In temperatures as low as -28°C (design: -40°C)
- **Covered transfer deck, gangway and operator cabin**
Keeping all your personnel protected from the harsh weather
- **Equipment bay**
Main components stored in heated equipment bay for reliable operations
- **Insulation and heat tracing**
Keeping outside components at the right temperature, and walkways and railings clear of ice



Certification:

- Structural and hydraulics & electrics:
Lloyds Register CLAME
- Winterization: DNV-OS-A201 – Winterization
for Cold Climate Operations

N-type



Movie N-type



Questions?



Contact details:

Floris Brands
floris.brands@ampelmann.nl
0031 6 29 31 90 77

