

# Telemetry Application Examples

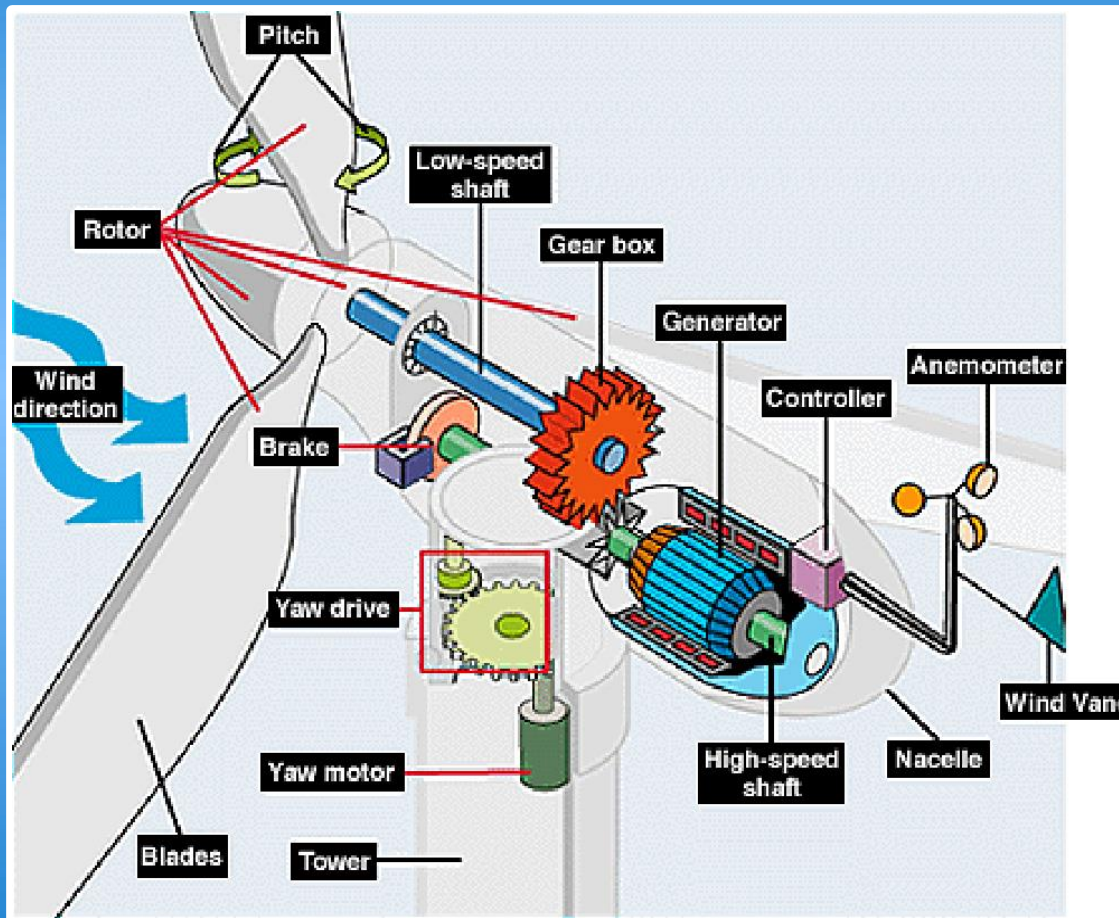
## Measurements on wind- and hydropower turbines



**with one- or multi- channel telemetry systems**

# Telemetry Application Examples

## Measurements on Wind-Turbines with KMT



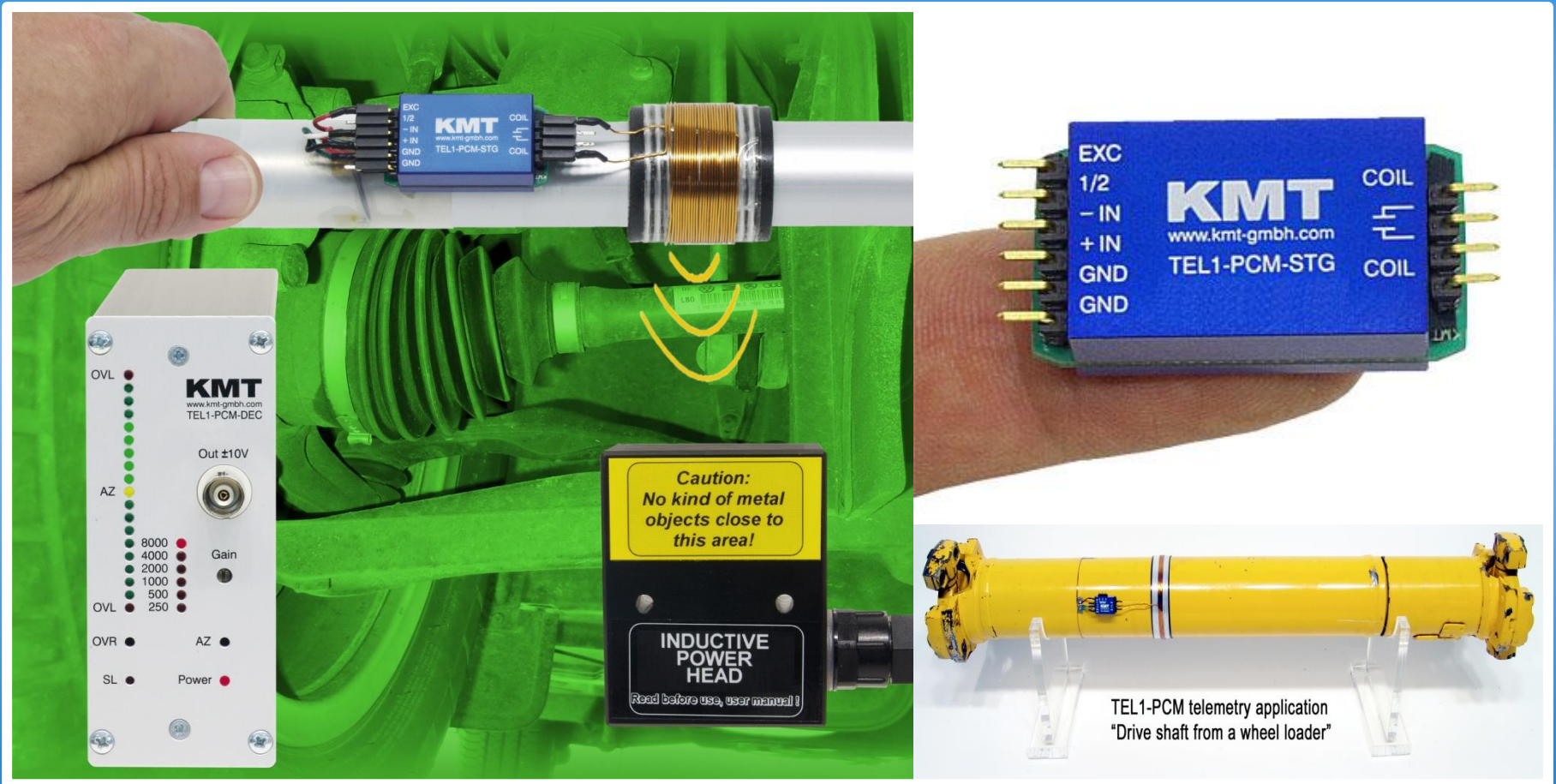
- \* Torque on High-speed shaft with TEL1-PCM
- \* Torque on Low-speed shaft with TEL1-PCM
- \* Force on Blades with MTP Telemetry
- \* Vibration on Blades MTP Telemetry
- \* Force in Gear Box with MTP Telemetry



# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT

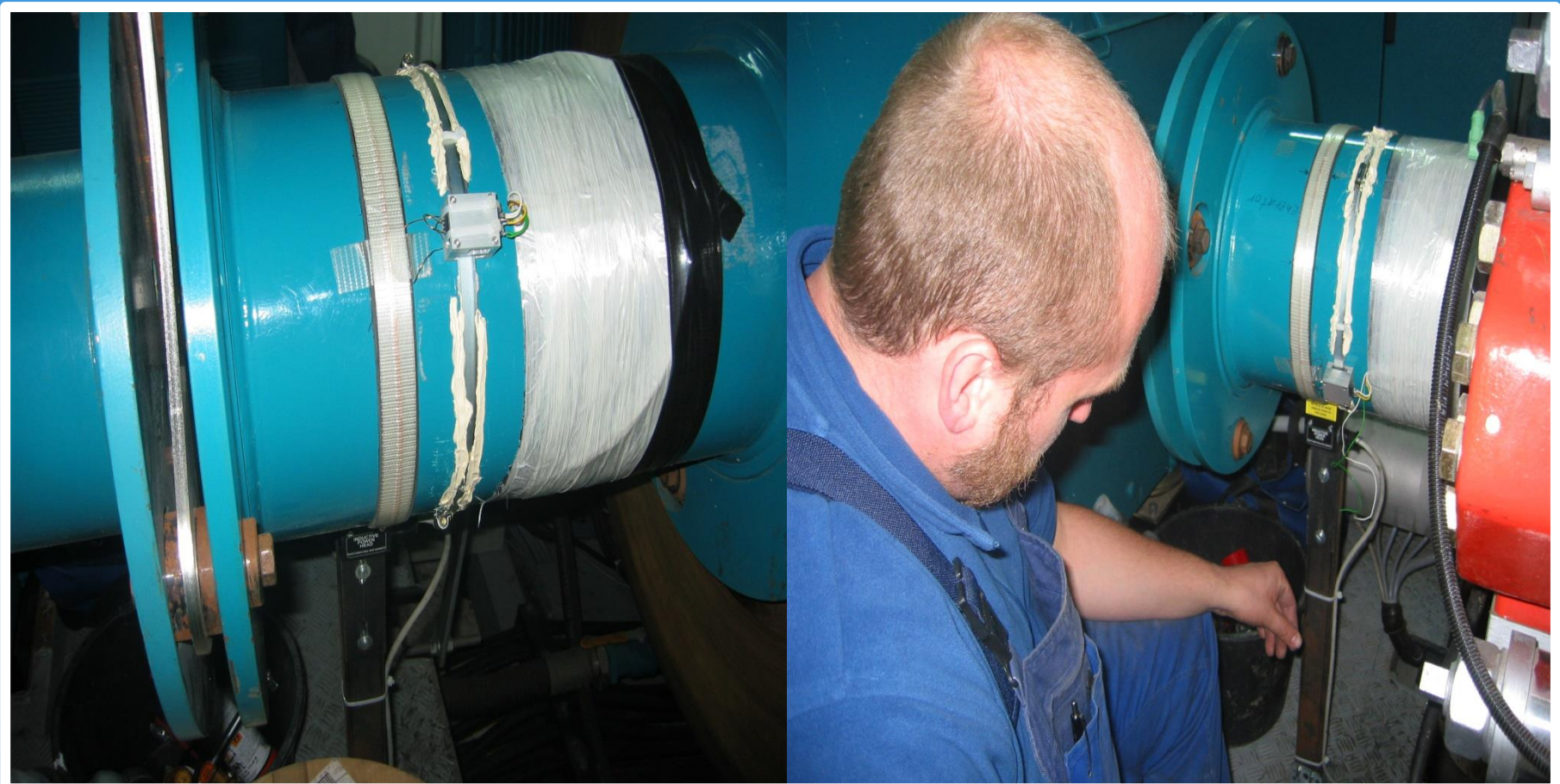


## TEL1-PCM – Torque Telemetry

# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT



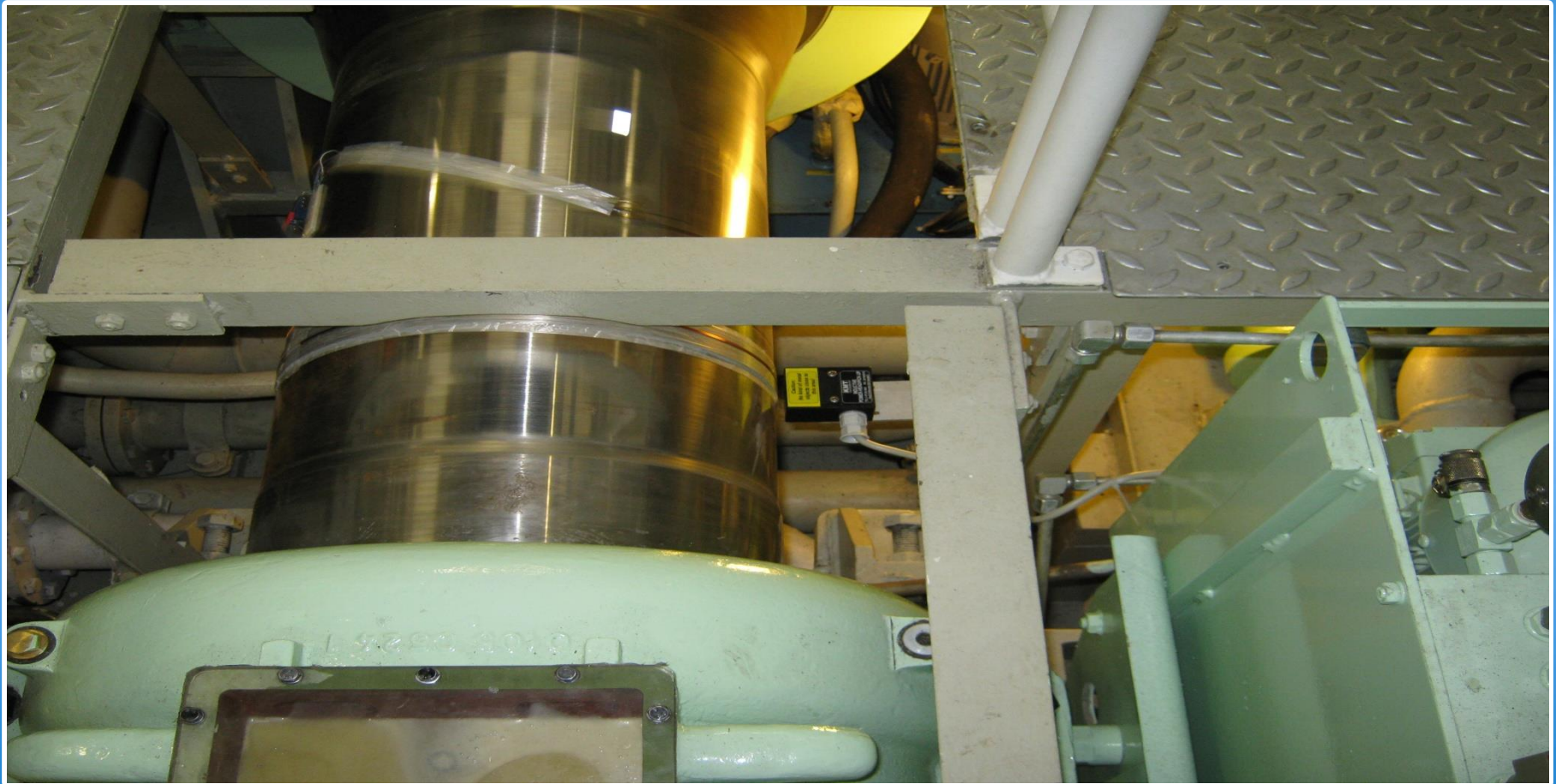
**TEL1-PCM – Torque Telemetry**  
*“torque measurement on high-speed shaft”*



# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT



**TEL1-PCM – Torque Telemetry**  
*“torque measurement on high-speed shaft”*

# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT



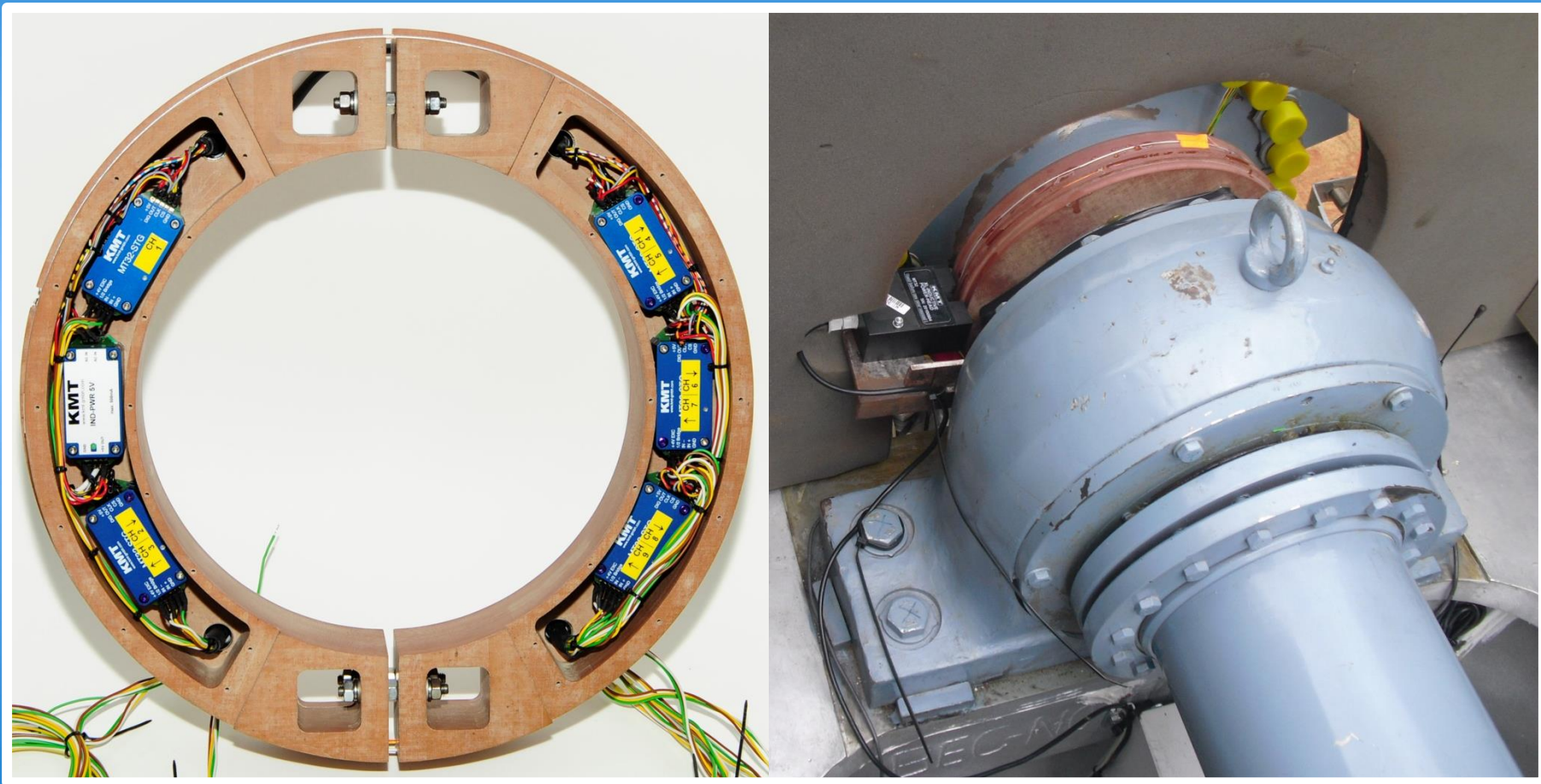
**TEL1-PCM – Torque Telemetry**  
*“torque measurement on low-speed shaft”*



# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT

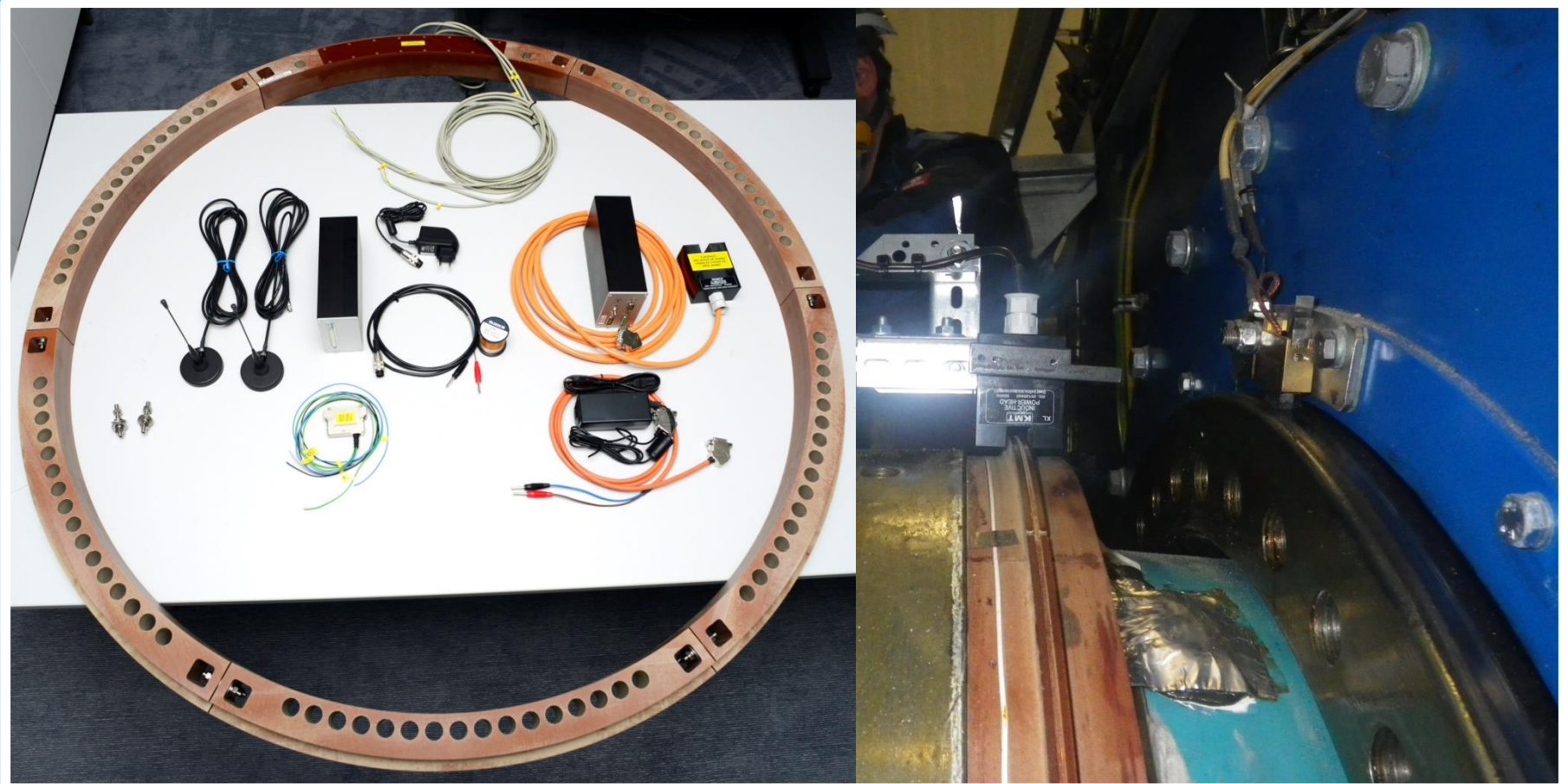


MT32 – Multi Channel Telemetry  
*“force measurement of blades”*

# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT

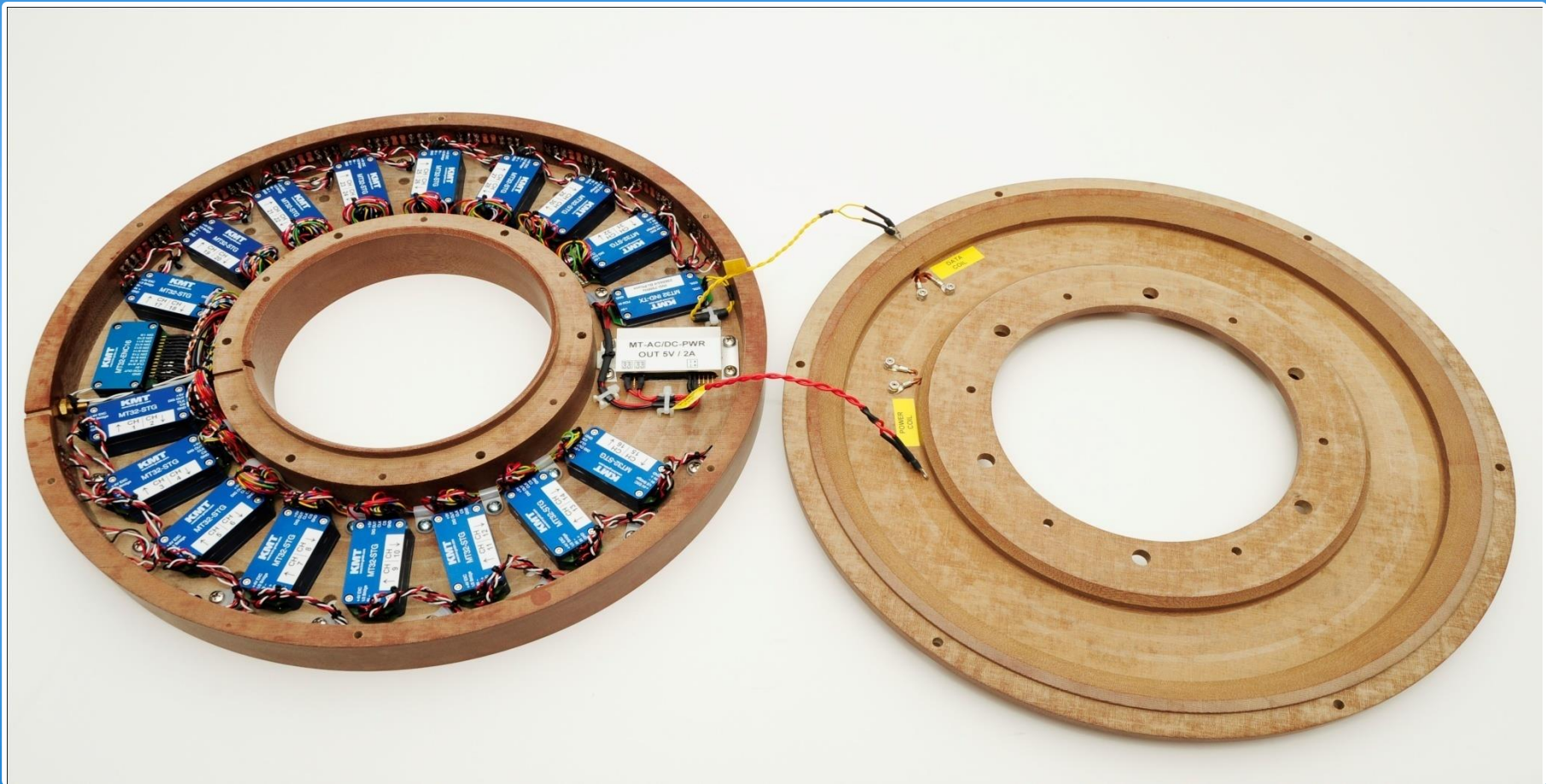


MT32 – 3-Channel Telemetry 1250mm  
*“force measurement of blades”*



# Telemetry Application Examples

## Measurements on Wind-Turbines with KMT



**MT32 – Multi Channel Telemetry**  
***“32 CH force measurement in gear box”***

# Telemetry Application Examples



## Measurements on Wind-Turbines with KMT

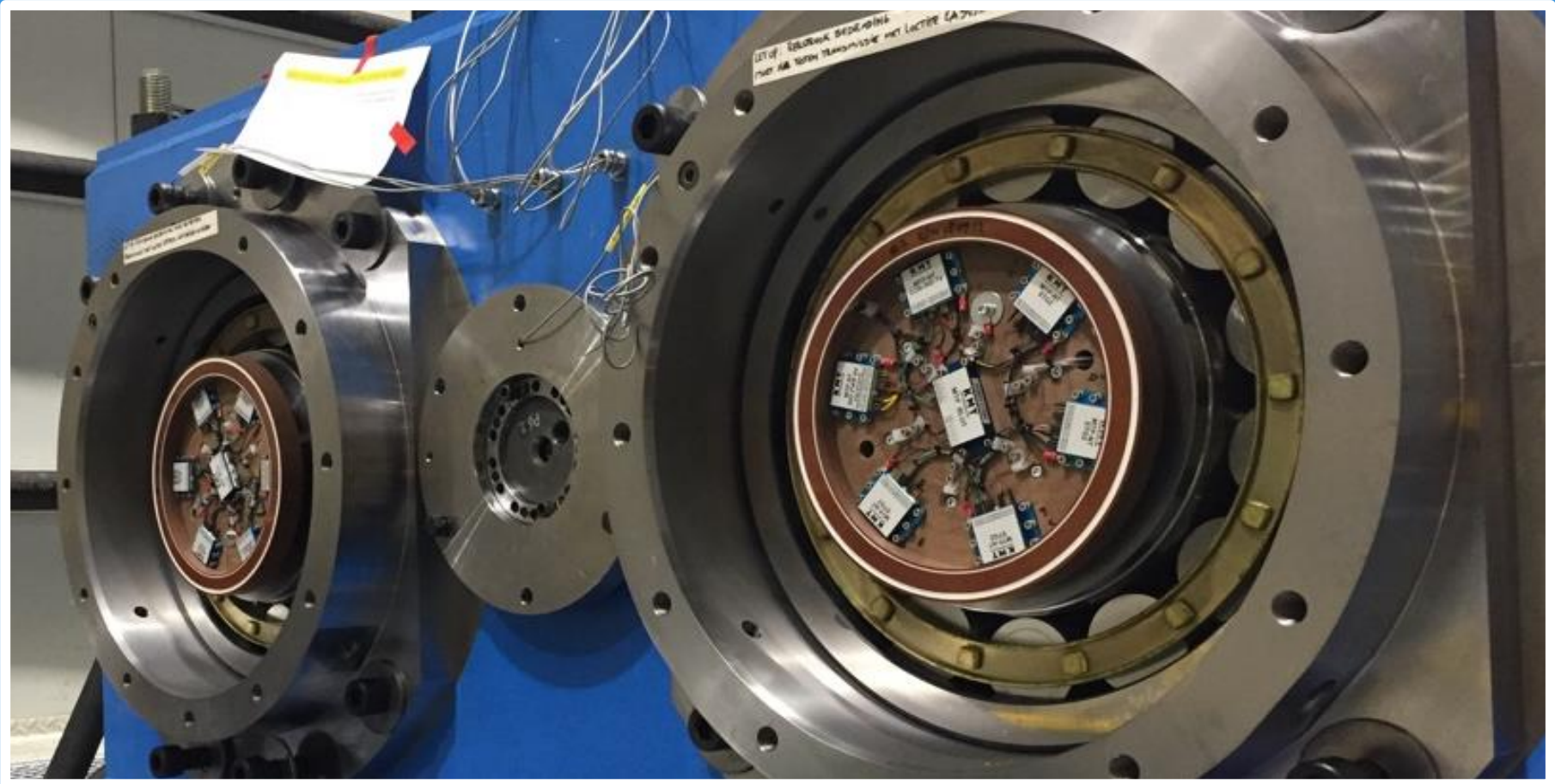


**MT32 – Multi Channel Telemetry**  
**“16 CH force telemetry on drive shaft incl. inductive power”**



# Telemetry Application Examples

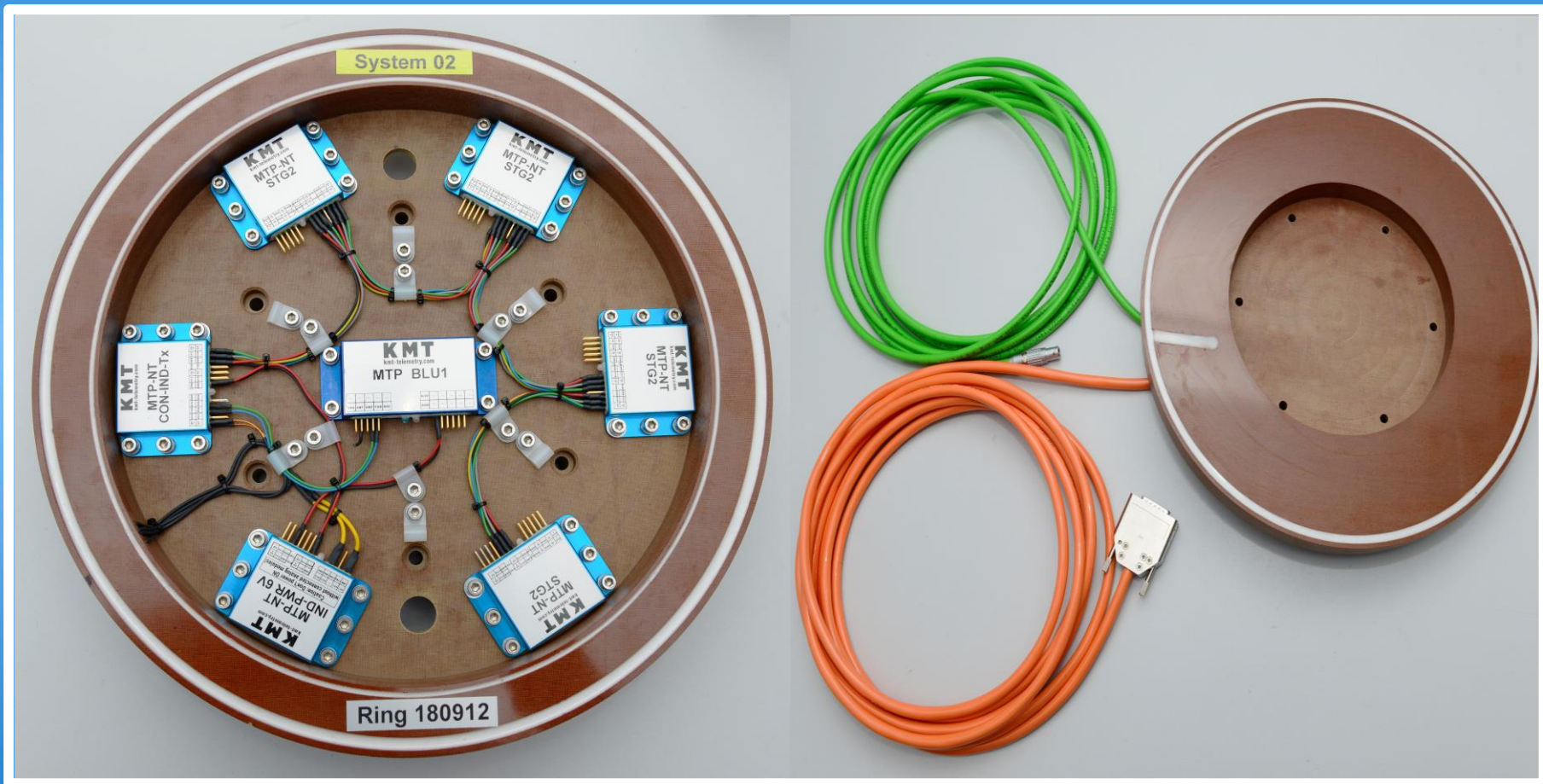
## MTP-NT – Multi Channel Telemetry inside of gear box



**Rotor for end of shaft installation on gear box**

# Telemetry Application Examples

## MTP-NT – Multi Channel Telemetry inside of gear box



Rotor for end of shaft installation

Stator for on shaft installation



# Telemetry Application Examples

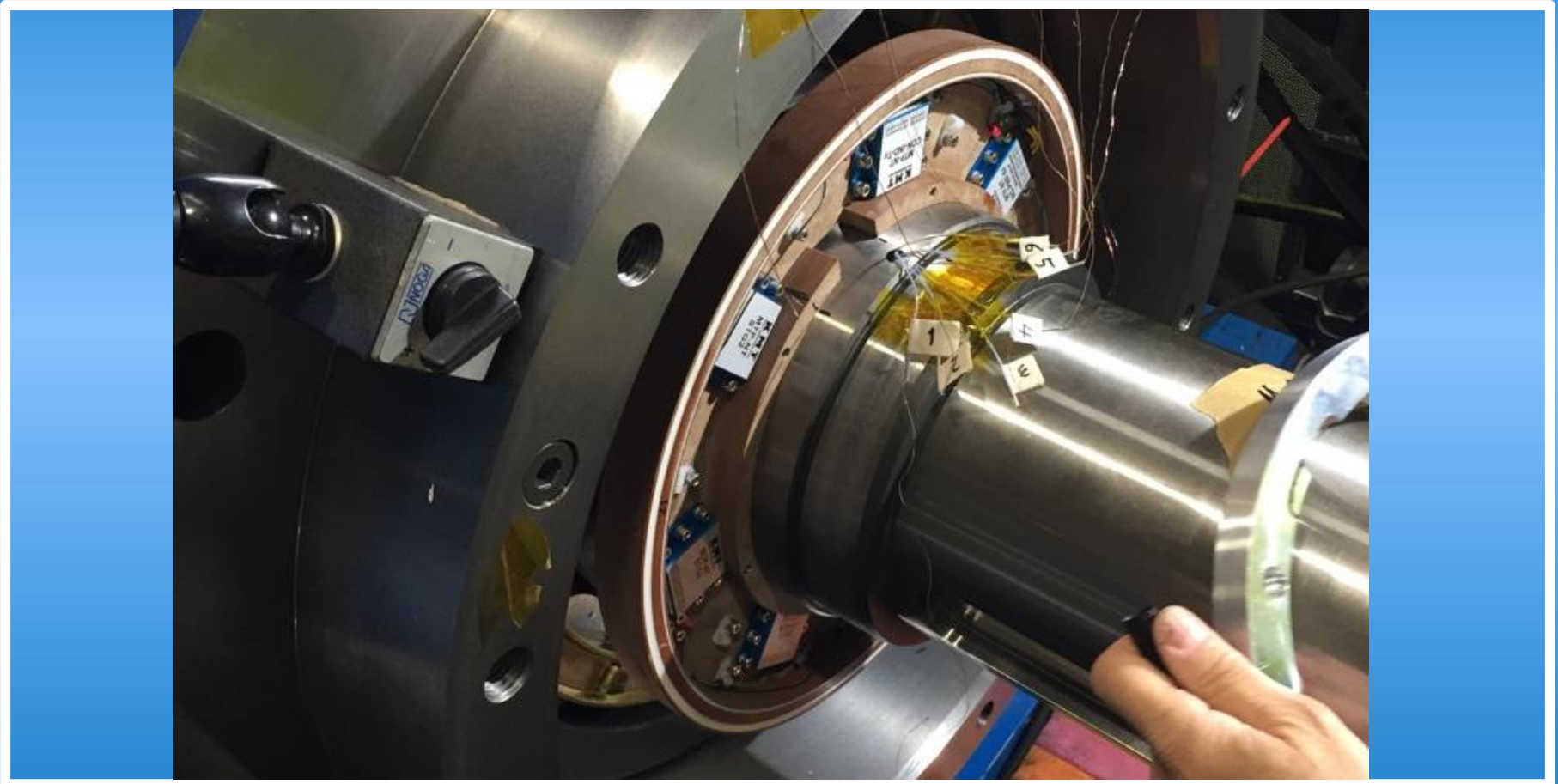
## MTP-NT – Multi Channel Telemetry inside of gear box



**SET - Rotor for end of shaft installation**

# Telemetry Application Examples

## MTP-NT – Multi Channel Telemetry inside of gear box

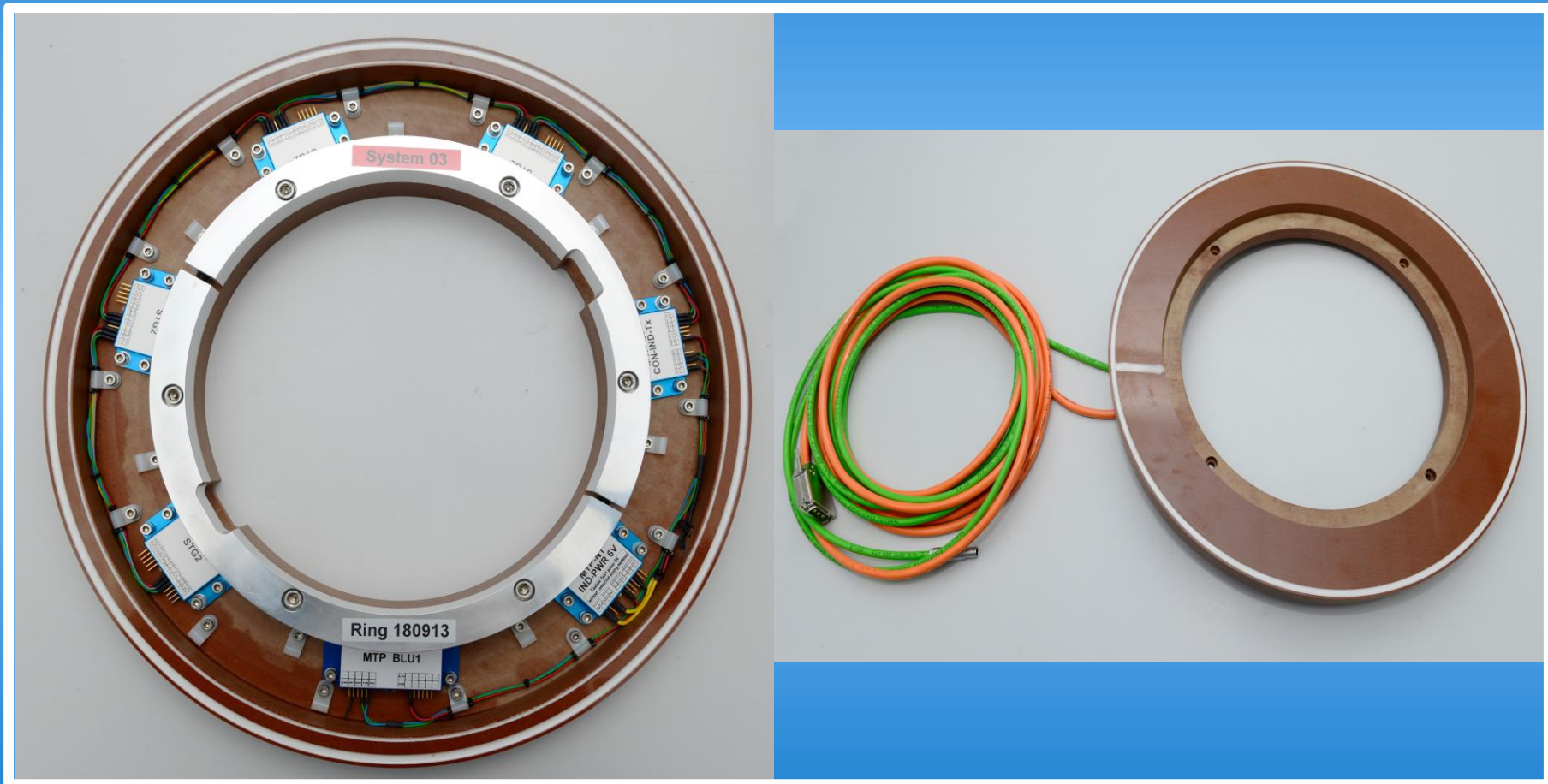


**Rotor for on shaft installation**



# Telemetry Application Examples

## MTP-NT – Multi Channel Telemetry inside of gear box



Rotor for end of shaft installation

Stator for on shaft installation

# Telemetry Application Examples

# Measurements on Wind-Turbines with KMT



## SET - Rotor for on shaft installation



# Telemetry Application Examples

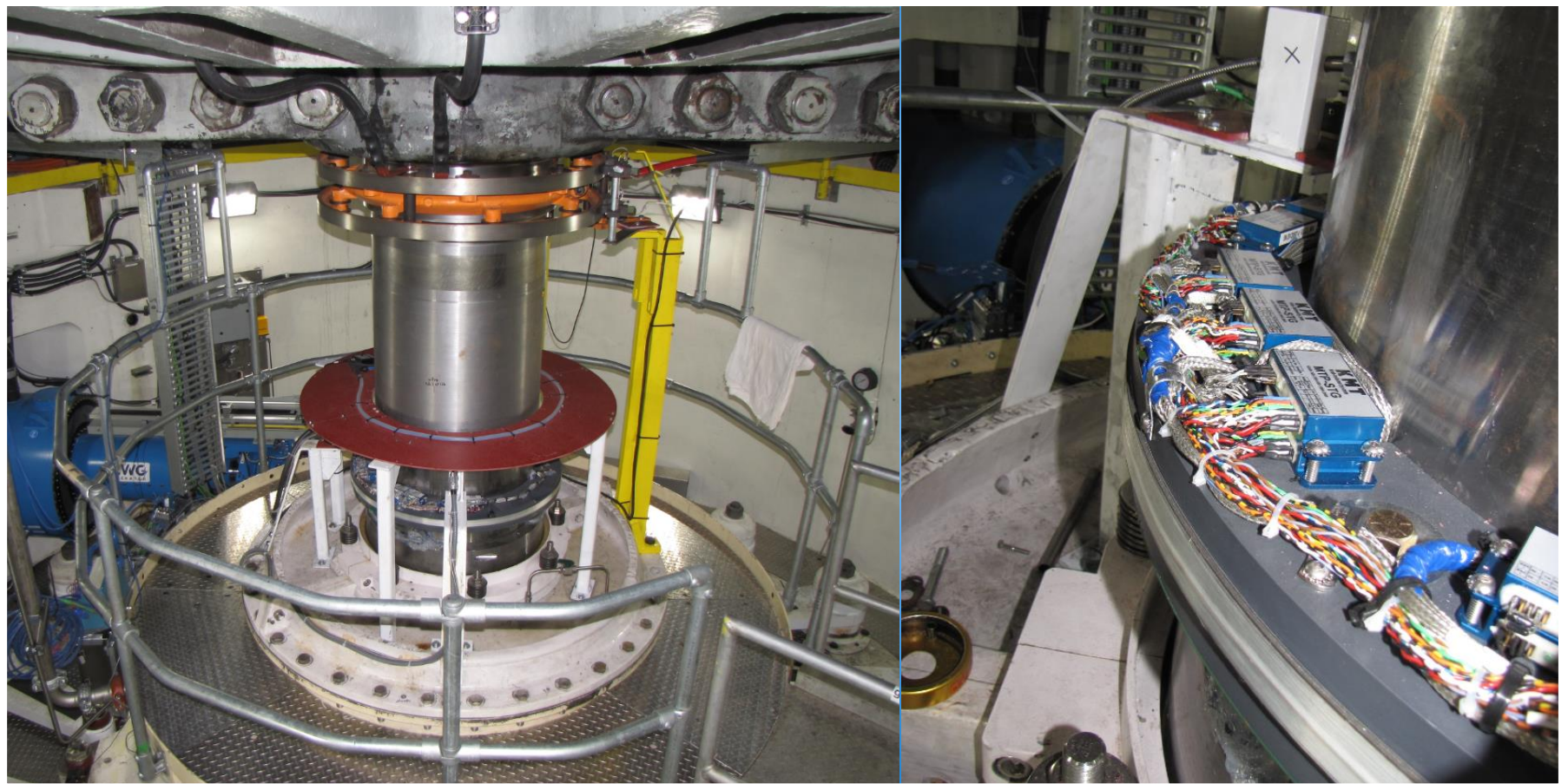
## Measurements on hydropower turbines



**MTP – Multi Channel Telemetry**

# Telemetry Application Examples

## Measurements on hydropower turbines

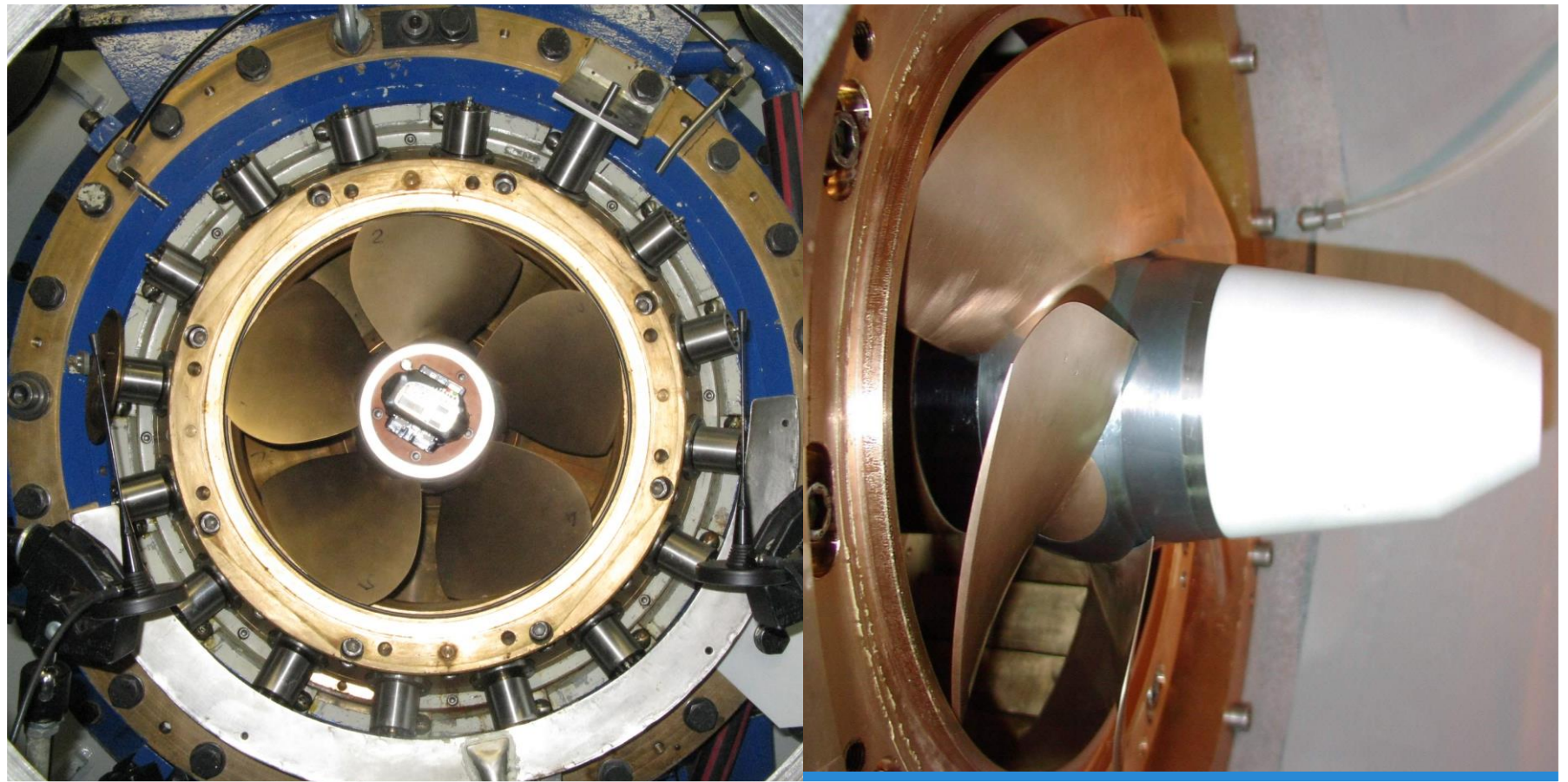


**MTP – Multi Channel Telemetry**



# Telemetry Application Examples
















## Measurements on hydropower turbines



**MTP – Multi Channel Telemetry**

# Telemetry Application Examples

## Some references

|   |                          |   |              |   |             |
|---|--------------------------|---|--------------|---|-------------|
|    | ANDRITZ<br>Hydro         |    | Hydro Québec |    | VESTAS      |
|    | DEWI                     |    | NORDEX       |    | VOITH Hydro |
|    | ENERCON                  |    | RePower      |    | Windtest    |
|   | GL Garrad<br>Hassan GmbH |   | Siemens      |   | ZF          |
|  | HANSEN<br>Transmission   |  | SUZLON       |  | ZOLLERN     |



# Thank you for your attention!



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