

# ATAG

SERVING INDUSTRY SINCE 1947



## WIND POWER PLANTS

Flexible Hoses for wind  
turbine applications

## Abrasive dust exhaustion by production of rotor blades

### REQUIREMENTS

(statutory provisions, standards, etc.)

- Light
- Flexible
- Partial electrically conductive

### CURRENTLY IN APPLICATION

- EVA and PVC hoses

### PROBLEMS

- PVC-hoses are heavy/hard to carry and to install, unflexible
- Will be demolated by crushing and recovering

### SOLUTION

#### **A**-FLEX PUR STEP

- Light
- Flexible
- Crush resistant and permanently recoverable
- Earthing with static wire

### CONTACT

- Maintenance



## Generator cooling

### REQUIREMENTS

(statutory provisions, standards, etc.)

- Heat resistant up to more than 100 °C
- Easy to install and to replace

### CURRENTLY IN APPLICATION

- Partially simply needed/stitched PVC qualities

### PROBLEMS

- Sufficient permanent temperature stability

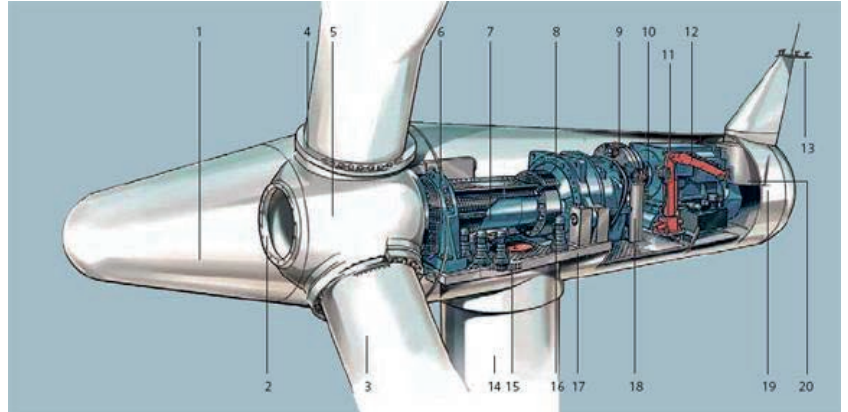
### SOLUTION

#### **A-FLEX** SANTO SL

- Heat resistant up to 130 °C
- Very good weather proof and chemical resistant

### CONTACT

- Constructing engineers
- Possibly purchasing department



- |                     |                                   |
|---------------------|-----------------------------------|
| 1_ Spinner          | 11_ Generator / Dynamo            |
| 2_ Spinner-fitting  | 12_ Service-crane                 |
| 3_ Rotor blade      | 13_ Anemometer and wind vane      |
| 4_ Pitch bearing    | 14_ Tower                         |
| 5_ Rotor hub        | 15_ Yaw control-rotating assembly |
| 6_ Main bearing     | 16_ Yaw control-gearbox-Getriebe  |
| 7_ Main shaft       | 17_ Nacelle base plate            |
| 8_ Gearbox          | 18_ Oil filter                    |
| 9_ Brake rotor disc | 19_ Nacelle cover                 |
| 10_ Coupling        | 20_ Nacelle cooler                |



## Wings thermal heating

### REQUIREMENTS

(statutory provisions, standards, etc.)

- Heat resistant from -20 °C to over +100 °C
- Easy to install and to replace

### CURRENTLY IN APPLICATION

- No indications

### PROBLEMS

- Sufficient permanent temperature stability

### SOLUTION

#### **A-FLEX** SANTO SL

- Heat resistant up to 130 °C
- Very good weather proof and chemical resistant

### CONTACT

- Constructing engineers
- Possibly purchasing department



## Tower ventilation

### REQUIREMENTS

(statutory provisions, standards, etc.)

- Hardly inflammable
- Very lightweight
- Wide range of diameters

### CURRENTLY IN APPLICATION

- Needled/Stitched PVC-hoses (lorry cover) with reinforcement rings approx. each 50 cm

### PROBLEMS

- Only possible to install straight, no curved parts possible

### SOLUTION

#### **A**-KLIP PE

- Only possible to install straight, no curved parts possible

### CONTACT

- Constructing engineers
- Possibly purchasing department



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IT\_20128 MILANO  
ph. +39 02 255.22.51  
mob. +39 329 68.78.260  
ufftec@atag-europe.com

[WWW.ATAG-EUROPE.COM](http://WWW.ATAG-EUROPE.COM)