3S Cut Verification

Pre-calibrated system with real-time (during the cutting process) verification of the cut

Uses several sensors to evaluate the cutting performance, with traffic light system for easy identification by the operator.

Enables re-cut at precise points rather than full re-cut if necessary.

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| 1 | Instant cut verification | Signals the cutting grade via traffic light system:  
|   |   | Red = no cut  
|   |   | Yellow = incomplete cut  
|   |   | Green = good cut  
| 2 | Cutting parameters | Absolute angle of the cutting position  
|   |   | Planned and actual rotational speed  
|   |   | Water depth  
|   |   | Working pressure  
| 3 | Log window | Reports the sensor reading  
| 4 | Rotational ganging | Shows the speed and evenness of the actual cutting feed motion  
| 5 | Sensor amplitudes | Displays the particular signal amplitudes of the sensors  
| 6 | Cutting result | Real time performance feedback at the actual cutting position  

3S Cut Verification

PLC Siemens S7 with evaluation electronics

Waterline

Sensors

H: Hydrophone
S: Structureborne and acceleration sensor
W: Water detector
P: Pressure sensor
R: Rotary Encoder

Connector:  
Cable:  

Sensors:

T:  +44 (0) 1651 873 932
E:  info@fisheroffshore.com
W:  www.fisheroffshore.com