



# OUTOTEC® HYDRAULIC FILTER CLOTH TRACKING UPGRADE

## Improved availability through Hydraulic Cloth Tracking Upgrade

Extending the lifetime of the filter cloth is possible through Outotec's modernization solution. The Hydraulic Cloth Tracking Upgrade prevents cloth edges from rubbing against the steel parts and thereby premature wearing of the cloth edges (loosening of yarns). Worn cloth edges may cause problems, such as damaged roller bearings, stuck rollers, uneven stretching of cloth, folding and seam damages.

The Hydraulic Cloth Tracking Upgrade, which is a state-of-the-art tracking solution for hydraulically operating pressure filters. The new tracking system is a standard feature of all Outotec Larox PF series pressure filters sold after the year 2003 and has been delivered as a standard feature in over 300 PF filters.

## BENEFITS

- **Increased availability of the filter: fewer unexpected shutdowns due to cloth failure**
- **Decreased operating costs: higher filter cloth milage**



This modernization product is now also available for most of PF filters sold prior to year 2003. To date Hydraulic Cloth Tracking Upgrade has been successfully installed as a modernization on numerous PF filters worldwide.

### System summary

Hydraulically operating Outotec Larox PF filters can be upgraded with an active hydraulic cloth-tracking system. The system monitors the position of the cloth continuously, enabling the required corrective actions to be taken in real time without delay. This active tracking system utilizes an analogue positioning technique together with sophisticated programming to ensure excellent tracking.

Improved tracking is a result of continuous, instant reactions to the misalignment of the cloth and more effective positioning of the tracking roller. The automatic tracking system immediately recognizes when the filter cloth is off-center and automatically adjusts the tracking to compensate.

In addition to the upper hydraulic cloth tracking device, Outotec offers a lower hydraulic cloth tracking device for PF30. In this filter model, the cloth is rewound and the cloth tracking system located on the top section is sometimes insufficient, therefore a second system is installed close to the cake chute.

Outotec Larox PF (electro-mechanical filter models), which were originally equipped with a manual tracking system, can be upgraded with an electro-mechanical tracking system.

### The main changes

The new tracking roller is installed close to the top plate and the old roller's position is fixed. When the cloth centering roller is closer to the next roller (top tension device roller) centering effect is much stronger. Note that for some filter types this is not necessary, as the existing electro-mechanical tracking system is already positioned close to the top plate.

The old cloth tracking sensors are removed and replaced by a new sophisticated tracking system. The cloth position is continuously monitored by a sensitive angle sensor (deviation of the cloth from its centre position is measured).

The electric motor operating the tracking roller is replaced by a smart hydraulic cylinder.

### The scope of delivery

The Modernization package of the Hydraulic Cloth Tracking Upgrade consists of the following main items:

- Pre-assembled frame
- Hydraulic cylinder
- Hydraulic valve block
- Electrification and instrumentation set
- Program modifications
- Documentation

The Modernization package is offered with Installation & Start-up, conducted by Outotec.

These modernizations help improve equipment performance, availability and process results. Please contact your local Outotec office for more information.