



## Videoscopy

### Decanter

#### Visualizing your service needs

Alfa Laval has complemented its service portfolio with high-end visualization technology. It has many names – borescopy, endoscopy – we call it “videoscopy”. Using this technique, we can show you the inside of your Alfa Laval decanter without dismantling it, and give you accurate information on your service needs.

#### When is this service provided?

It can be carried out in connection with Alfa Laval Performance Agreements, when a regular service is planned, or when you feel it is time for an inspection. If needed, we can also inspect other equipment such as pumps, piping, etc.

#### Avoid costly unplanned maintenance

Combining the visualization tool with our product knowledge we are able to discover discrepancies before they cause problems, thus helping you avoid costly unplanned maintenance. Being aware of what is happening inside your equipment will enable you to employ preventive maintenance to keep your Alfa Laval decanter at peak performance.

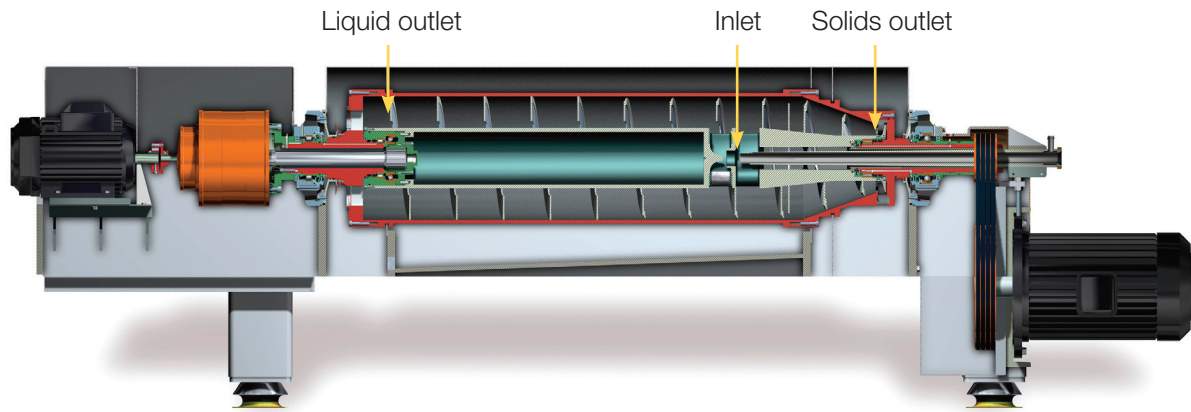
For example, knowing that fouling or different kinds of wear are occurring, taking the correct action and performing service at the correct intervals will improve performance and prolong the lifetime of the equipment. Planned maintenance ensures equipment reliability and availability.

#### Information about wear parts

Using videoscopy to inspect your decanter, we can also provide you with information about wear parts and their expected lifetime, thus enabling you to schedule your maintenance at the right intervals.



Planning ahead will cut costs and prevent unnecessary interruptions, which can be avoided if the equipment is serviced properly. This will also result in optimal use of the equipment and increased process efficiency.



## Inspecting your decanter

Our inspections focus on three areas:

- Inlet
- Liquid outlet
- Solids outlet

### Inlet:

1. Feed zone
2. Polymer zone
3. Drain zone
4. Tiles and strips in feed-zone
5. Cleaning results

### Liquid outlet:

6. Cleaning result
7. Hard-surfacing conditions
8. Wear on strips.
9. Backside of the end-hub

### Solids outlet:

10. Cleaning result
11. Hard-surfacing conditions
12. Wear on strips
13. Wear on flights

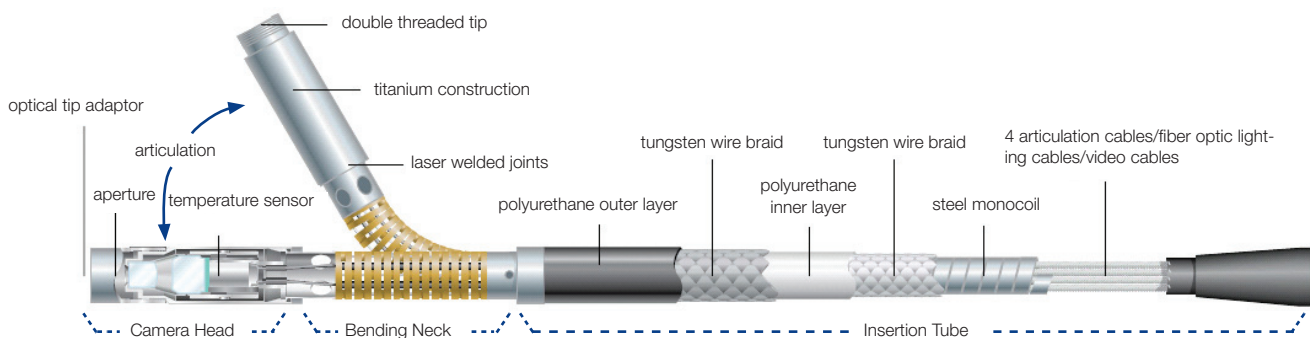
## What are we looking for?

During our inspection we look for discrepancies in the form of wear, damaged parts, clogging and insufficient cleaning. We can also identify reasons for imbalance that may cause damage to other parts of the decanter, such as the main bearings, gearbox, etc. that can lead to unplanned interruptions. After inspection a status report with pictures and comments will be provided.

## Latest, high-end visualization tool

Videoscopy enables us to view laser-sharp images of the internals of the decanter, including spaces as small as 3.9 mm.

In this way, we obtain a detailed picture of the condition of the machine on which to base an accurate condition assessment. The tool has the capability to measure areas and distances, providing benchmarking for later inspections.



Note: Illustration is not drawn to scale.

The illustration is an example of a high-end insertion tube

**Discover this**

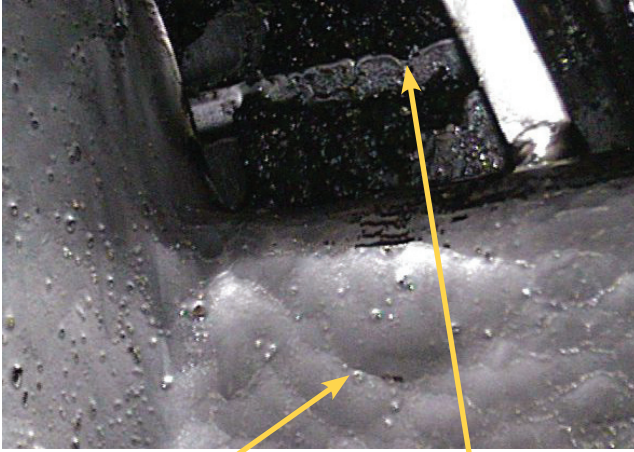


Photo: GE

Inlet/drain-zone: Erosion. Insufficient cleaning, strips.

**To prevent this**



Too high flow created backplash into unprotected drain-zone.

**Benefits**

- Prediction of maintenance requirements
- Avoid dismantling
- Discover clogging
- Discover wear
- Measure the degree of wear
- Avoid imbalance
- Prolong equipment life-cycle
- Optimize life-cycle cost
- Minimize costly, unplanned maintenance by early indications



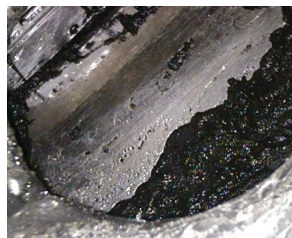
Erosion



Clogging



Erosion



Insufficient cleaning

**An offer you can't refuse!**

Do not miss this valuable opportunity to find out what is really happening inside your equipment.

Why not let us perform the inspection in connection with our other service activities. We will make you an offer you can't refuse...

