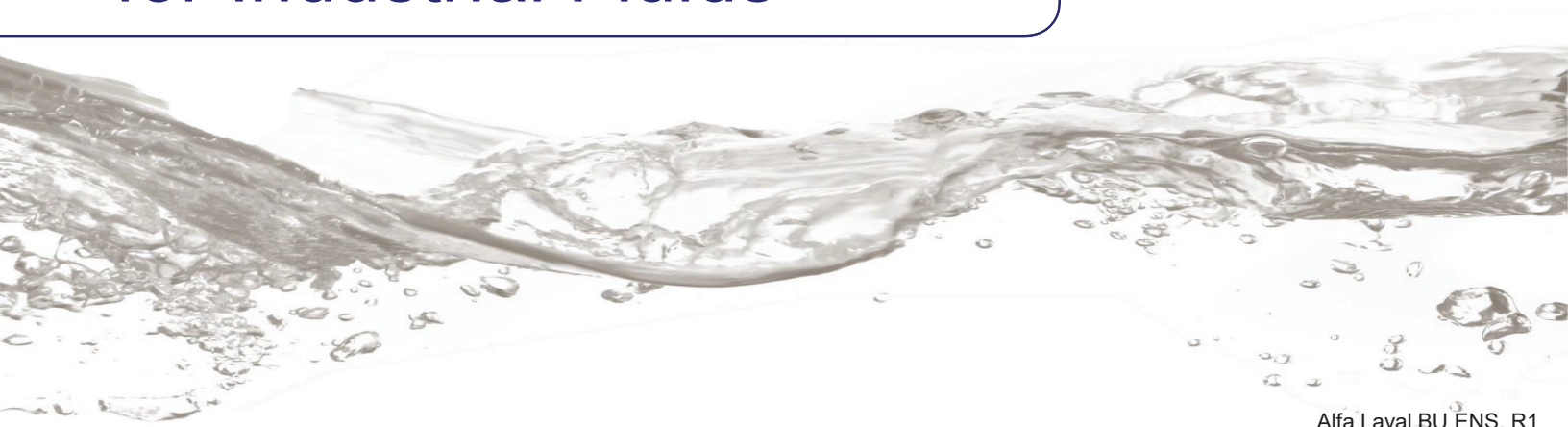




High Speed Separators for Industrial Fluids



Prolonging the life of your coolants

- Solutions for cleaning of water based coolants



HSS a core technology within Alfa Laval applications

– Market leaders since 1883

- * Deep knowledge
- * Advanced R&D
- * Continuous innovation



Alfa Laval Disc Stack Separator Technology

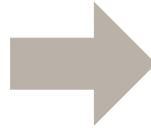
- Separating one or two liquid phases and solids from each other

- * Uses extremely high centrifugal forces in one single continuous process
- * The denser solids are forced outwards in the rotating bowl
- * The area where two different liquid phases meet is called interface position
- * The disc stack provides additional settling area contributing to efficient separation process

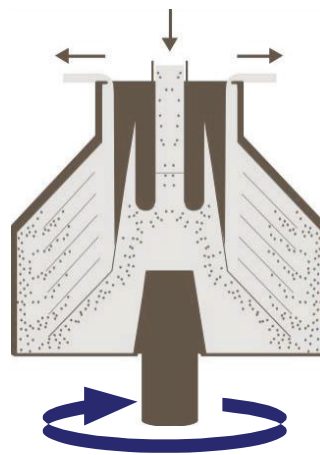
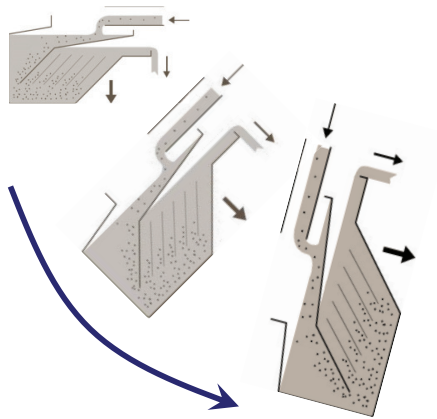


Why is centrifugal separation so effective?

High g-force combined with very short settling distance



Extremely large separation area



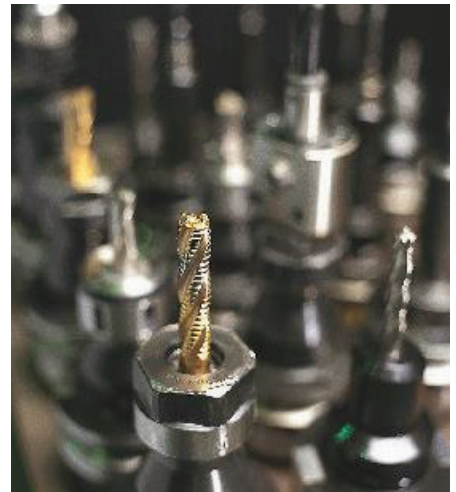
Contamination Problems

For the metalworking industry, coolants are a major expense:

- Replacing them – a messy and time-consuming task.
- Disposing of them – a continually rising expense in the face of today's environmental regulations.

But dirty coolants also incur other less obvious but no less expensive costs. For example, tramp oil and solid particles in coolants can cause increased tool wear, quality problems during later processing and health problems for your personnel.

- * Breakdowns
- * High replacement costs
- * Lower quality
- * Health risk from hazardous substances



Why clean your coolants?

- Alfa Laval coolant cleaning solutions helps you to achieve outstanding performance

- * Low fluid replacement/disposal costs
- * Longer tool lifetime
- * Cleaner components, improved end-product quality
- * Less downtime for service since the separator is installed in bypass flow
- * Fewer man-hours required for maintenance of service fluids
- * Healthier work environment
- * Reduced impact on the environment



Cleaning of Industrial Fluids

- System layout example

Coolant cleaning goes on independently of production

