ConSep 2000® – The System

The modular solution for chip conveying and coolant cleaning

Economical / less space / modular
ConSep 2000® coolant cleaning separator is the perfect solution for chip conveying and coolant cleaning in a single unit using little floor space. It’s engineered to process virtually every chip type with minimal return of chips or fines to the coolant tank. Its modular design makes it simple to add additional components for extended coolant cleaning requirements below 50 micron. ConSep 2000® is the best and most economical method to dedicated chip handling and coolant cleaning for machining centers, automatic multi-spindle lathes and rotary transfer machines.

The primary conveyor removes all chip types and sizes including strings and balls.

The lower drag-type separator conveyor removes fines that are passed through and carried back into the system by the primary conveyor.

A permanent self-cleaning media drum separates fines from the coolant to 50 micron nominal.

Fluid level is maintained below the primary conveyor belt allowing residual coolant to drain from the chips and reduces problems associated with coolant foaming and floating chips.

Viewing port allows visual inspection of the separator drum.

Over and under discharge design allows use of a single chip hopper for collection.

All the individual components of ConSep 2000® combined in an universal device with less maintenance requirements and high availability.
ConSep 2000® meets your individual coolant cleaning requirements now or later...

Modular system design allows for additional coolant cleaning components

The AT Cleaner is manufactured in the USA under license agreement from BUNRI Industries LTD - Japan.

**AT-Cleaner**

**Separation of foreign/tramp oils**
- Skimmer separates floating foreign or tramp oils from the coolant

**Electrical Controls**

**Plug and run controls**
- Simple integration into existing machine tool controls
- SPS logic control

**Secondary coolant cleaning**
- The AT-Cleaner is a hydraulic centrifugal separator requiring no disposable filter media.
  - Cleans coolant up to 20 micron
  - Extends tool life and surface quality
  - Minimizes manual cleaning maintenance

**High pressure coolant system**
- Engineered systems offer 55 l/min, 20-100 bar (15 GPM @ 300-1500 PSI)
  - Variable flow and pressure
  - Police filter optional

**Oil skimmer**
**AT-Cleaner with Super Separator for sludge clean-out**

*For increased coolant storage volumes*

- Extended coolant filling cycles
- Week-end stand-by mode
- Improved heat dissipation

*Minimized sedimentation in tanks*

- Automatically removes sludge and dirt
- Minimal maintenance

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**Chiller Unit**

*For improved machining tolerances*

- Through coolant refrigeration
- Temperature regulating system

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**Primary conveyor**

**Separate coolant tank**
Helps you make a good cut and keep your coolant clean...

- Full stream coolant cleaning to 50 micron nominal
  - High-pressure operation with AT-Cleaner extended to 20 micron
- Up to 800 l/min (210 GPM)
- Handles most chip types:
  - Turnings, spiral chips, nests, fine and coarse chips
- Various materials:
  - Aluminium, steel, brass, cast iron
- Reduced tank cleaning maintenance
- Integrated coolant tank requires less space

Three proven Mayfran components
...an economical modular solution!

- Primary conveyor
  - Discharging all types of coarse chips
- Drag-type conveyor
  - Discharge of small chips and fine abrasion
- Separator drum with endless filter band for screening of small particles
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