



[www.LNS-europe.com](http://www.LNS-europe.com)

## ***PHASEP***

### **Tramp Oil Removal System**

The best choice for re-using your coolant

Oil contamination is the number one cause of metalworking fluid disposal. PhaSep's patented oil removal technology can improve metalworking fluid life by 100%, drastically reducing the need for hazardous waste disposal, at the same time reducing cost on replacement coolant.



LNS SA  
CH-2534 Orvin  
[www.LNS-europe.com](http://www.LNS-europe.com)

# PHASEP

## Simple payback

Metalworking fluids lose valuable cooling and lubrication properties when contaminated with oil and fines. Part quality and tool life are drastically compromised.

An independent study has shown that PhaSep's patented oil removal technology will improve metalworking fluid life by at least 100%, reducing the need for new coolant. Coolant disposal cost is eliminated, and tool life is increased by up to 25%. Clean coolant does not need replacing and is a much more efficient lubricant, adding to tool life.



## Minimal Maintenance

PhaSep requires little maintenance. Some maintenance is required, but little time is spent keeping up-time to the maximum. The cleaning takes only minutes with removable plate packs and is recommended three to four times per year.

All-steel construction and no internal parts to wear provides years of continuous service. These patented steel plates are impervious to oil contamination associated with plastic coalescing media. The pneumatic pump of PhaSep operates continuously, the system does not require electrical power with little or no attention needed.



## Processing Capability

Eliminating tramp oil requires an advance design. Positive coolant flow, superior float design, and simple oil separation, are key success factors.

Unlike competitive belt and wheel skimmers, the PhaSep draws coolant into the coalescing box at a minimum rate of 2,200 litres per day. Frequent tank-volume turnover guarantees oil removal. The Tri-Vortex, 3-ball float captures the oil where it accumulates most: at the surface of the coolant. A simple weir dam arrangement captures the oil and sends it to a holding tank for disposal. Clean coolant is gravity-fed back to the machine sump.

## LNS Eco



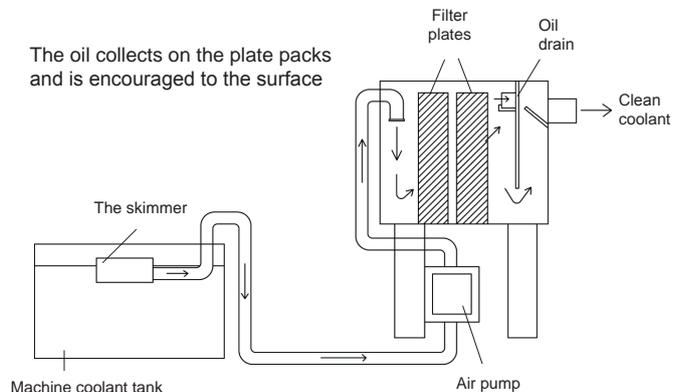
Improving the working environment for operators helps your production continue to run smoothly and efficiently.

PhaSep not only helps keep your coolant clean, it also helps keep your environment clean. Bacteria grows and feeds on the contaminants in coolant. This bacteria is the leading cause of operator dermatitis and the foul smell associated with rancid coolant.

Removing the tramp oil eliminates the food source and the bacteria, providing a safe, healthy, more pleasant environment for the machine operator.

## System schematic

|            |  |
|------------|--|
| CPS Mini   | 2.25 to 3.4 L/Min Process Rate, 432 x 406 x 610 mm |
|            | Coolant tank processing up to 400 Lt               |
| CPS Junior | 6.8 L/Min Process Rate, 610 x 406 x 610 mm         |
|            | Coolant tank processing up to 800 Lt               |



## Your "One-Stop-Shop" for machine-tool peripherals

LNS is your one-stop resource for industry leading bar feeding equipment and accessories, chip conveyors and coolant management systems. So you get unmatched product range, applications experience, service and support.

The LNS customer service and technical support teams are the industry's most experienced. Together, they provide expert product selection and application assistance, professional installation and comprehensive training.

We support every product we sell with replacement parts, and both field and factory service. We provide this expert service through trained technicians who are strategically positioned throughout the world.

And because we design every bar feed, chip conveyor and coolant system we sell, we can provide parts and service for all LNS equipment – even chip conveyors and bar feeds that have been in service for over twenty years.



LNS SA  
CH-2534 Orvin  
www.LNS-europe.com

Tel +41 (0)32 358 02 00  
Fax +41 (0)32 358 02 01  
sales@LNS-europe.com