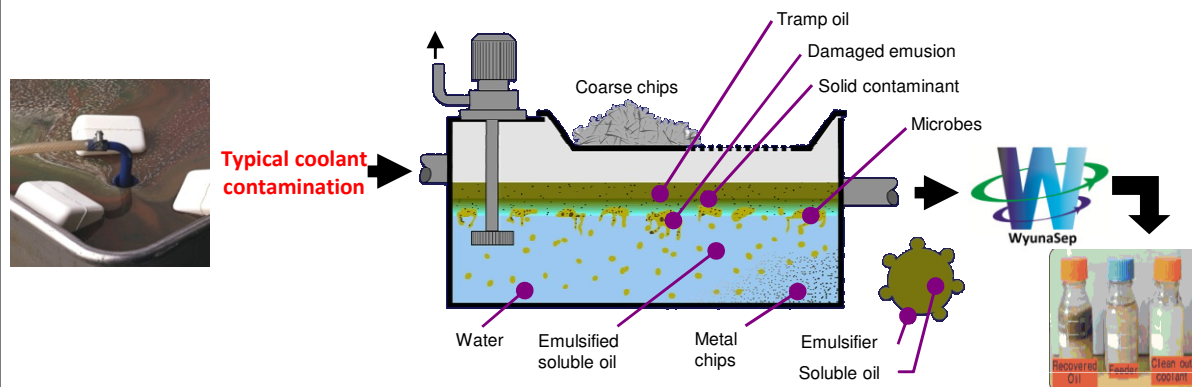




## COOLANT / CUTTING OIL PURIFICATION SYSTEM



### MACHINING COOLANT FILTRATION

- Remove fine shavings and abrasive powders / grains from machine tool coolant
- Cutting fluids
- Grinding fluids (Filters ferrous AND non-ferrous particles)
- High pressure coolant
- Coolant through spindle (CTS)
- Replace current paper and cartridge filters or extend their life

### Machine Tool Coolant Processing

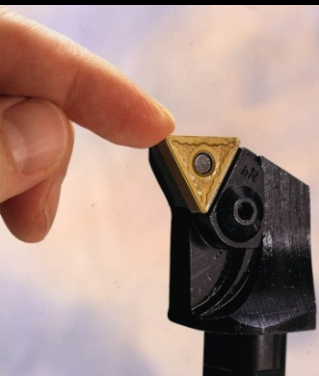
It is very important to keep machine tool coolants free of tramp oil and solid matter to maximize coolant life and minimize coolant and labour costs. WyunaSep coolant reclaim systems can help maximize coolant life and help save both maintenance and coolant replacement costs. WyunaSep will be glad to design a coolant reclaim system to meet the needs of your facility. WyunaSep does not provide coolant filtration systems. This is because a coolant filtration system has consumable filters which add to operating costs.

WyunaSep Hydrocyclone technology which has been used successfully in solving petroleum and chemical industry problems can also be applied to the processing of metal-cutting coolants. This technology, featuring the use of hydrocyclone separators –WyunaSep, this provides a very effective and low cost method of removing solids and tramp oil in one process. Removal of these contaminants, especially the oil dramatically extends coolant life and reduces maintenance costs. Proper use of purification equipment can extend the life of machine tool coolant by 30% or more

If tramp oil is not removed from circulating coolant systems, it can be used as a food by various types of bacteria, causing runaway bacterial growth. This bacterial growth can cause odour problems, allergic reactions among the workers, and can also affect the machining properties of the coolant. All of these problems can cause higher expenses, lower productivity, and can also cause possible machine breakage and / or excess bearing wear.

WyunaSep Hydrocyclone separators can be used to clean coolant to increase coolant life, reduce costs and increase productivity with the added bonus of possibly creating a healthier workplace. Many methods can be used to purify coolant, but the WyunaSep system is one of the best because it does not utilize absorbents, Chemicals, big tanks or other consumables and does not utilize any high speed centrifugal equipment. For these reasons it is economical and easy to operate.

WyunaSep – Coolant-3.5 & 3.5S, coolant -7 & 7S, Coolant-10 & 10S



## WyunaSep Coolant - CONFIGURATION EXAMPLES

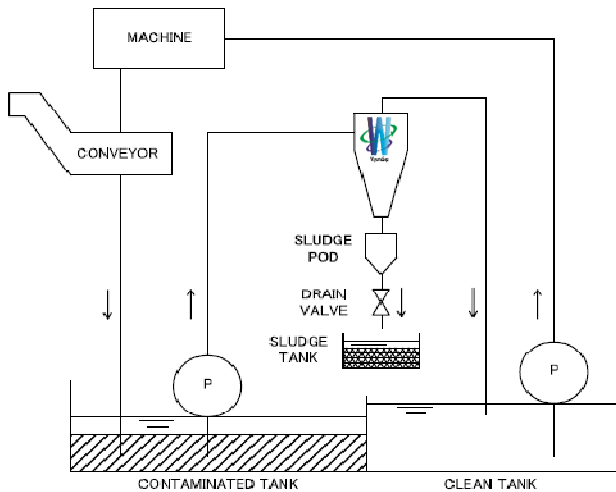
Whether providing system filtration solutions for large machining centers or an end user looking to reduce filtration waste and cost in a single unit, the WyunaSep can be integrated into a variety of filtration configurations to meet each client's requirements.

Below are simplified drawings of two typical configurations currently provided by WyunaSep to clients for machining coolant filtration.

Please [contact us](#) for further information on filtration system design or call us .

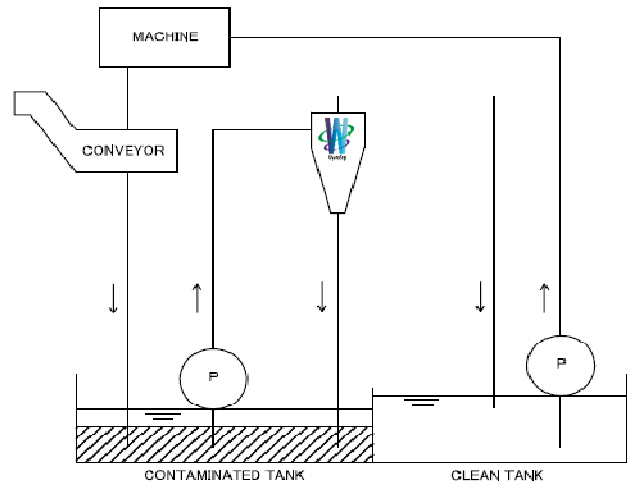
Example 1)

WyunaSep with overflow, sludge pod, and sludge disposal tank for machine coolant tank filtration



Example 2)

WyunaSep with overflow for machine coolant tank filtration

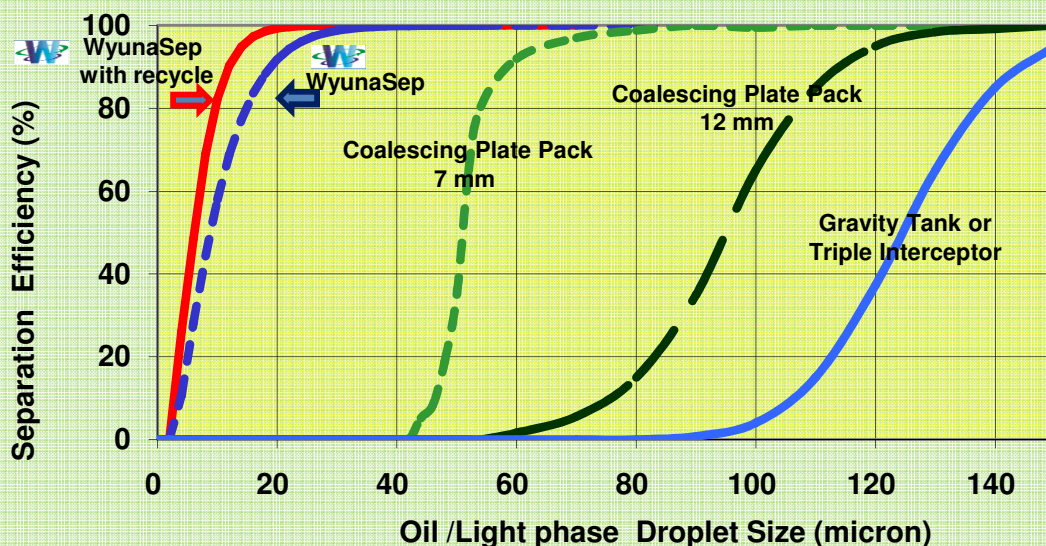


### Other application in Automobile Manufacturing units **Paint Shop**

- Pre-treatment water reclaim
- Replace current filters or extend their life
- Process water oil separator
- Vehicle Wash Water Reclaim
- Service Station - Service Bays and Fuel Dispensing



## OIL SEPARATOR PERFORMANCE



Solids Separation Unit