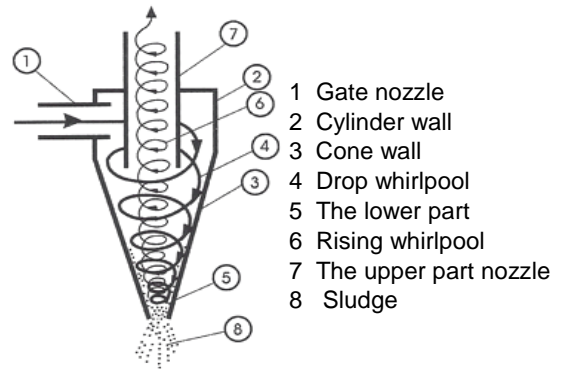


Technological Innovation of Coolant Purification



Hydro Spiclone Principle



Patent registered number (20-2006-0018375)

- The **SPICLON** get a patent for purification of coolant
- The **SPICLON** is used to purification of coolant when grinding and honing process in the precision cutting process

Product Summary

Important factors of coolant are cooling, cleaning and lubrication. However, in a present grinding process, could not separate completely impurities in coolant. Therefore the surface become rough that occurred scratch in grinding wheel or rotting of coolant. And the process efficiency decreases. The **SPICLON** is epochal patent products for the grinding and honing process because an increasing of process efficiency and could be extending tool and coolant changing cycle.

Special feature

The **SPICLON** is detachable nonmetallic impurity. (Glass, Abrasive, Plastic etc)
 The **SPICLON** using centrifugal method, since life cycle is semi-permanent. By agitation of coolant, without an offensive smell and can work clean environment.

Specification

Model	DYS-01	DYS-02	DYS-03
Maximum Flow rate (L/min)	150	100	230
No.of cell	1	1	2
Efficiency	98% with 10 micron of particle size (5 micron with particle of S.G. 7.8)		
Workable Condition			
Specific Gravity(S.G.) of particle	Min 2.5		
Maximum particle Size	1.3 mm		
A coefficient of viscosity	50cst		
Maximum Temperature	70°C (158°F)		
Minimum Pressure	1.85 Kgf/cm ²		
Maximum Pressure	2.85 Kgf/cm ²		
Everage Pressure	2.45 Kgf/cm ²		
Ratio of solid particle to coolant	Maximum 5% in weight		
Outside caliber	11/2PT	11/2PT	11/2PT
Head weight	5.0 Kg	1.7 Kg	7.0 Kg



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Production Effect of SPICLON

1. By centrifugal work, particles of heavy gravity sink but ones of light gravity go up to the surface, then coolant is fed back to machine, very simple.
2. Preventive of scratches by chips in the coolant.
3. Instead of repeated exchange of coolant, only the fill up of coolant shortage is all.
4. Whirling of coolant decreases bad smell from the coolant getting rotten.
5. Keeping the work place clean by the use of sludge tank.
6. Instead of using filter, **SPICLON** takes pump motor for feed-back cleaned coolant, no trouble and no expendables.
7. Confident recommendation for the production of quarts, semi-conductor and ink by removing fine particles.
8. Possible recovery of investment within six months of **SPICLON** use and sure improvement of product quality.

Technical characteristics for SPICLON

**** 92% purification effect with to use for solvable or nonsoluble ****

1. Centrifugal type purification method (need not expendable repair parts).
2. Can eliminate over 5 micron particles at Specific Gravity (S.G) 7.8.
3. Purified coolants will be automatically circulated.(0.41-0.67kg/cm²)
4. Collected sludge will be automatically separated to draining under container box. (save operation charge)
5. Coolant or cutting oil expiring date will be extended 15 times to compare with normal filters. (no replacement during one year)
6. Continuous refinement of metal surface and precise working process of machine tools.
7. Extend wheelgrind and diamond life cycle.
8. Possible for 0.003 micron status high precise polishing.
9. Available to use for nonsoluble electric discharge machines.
10. Install or operation expense is no expensive.



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