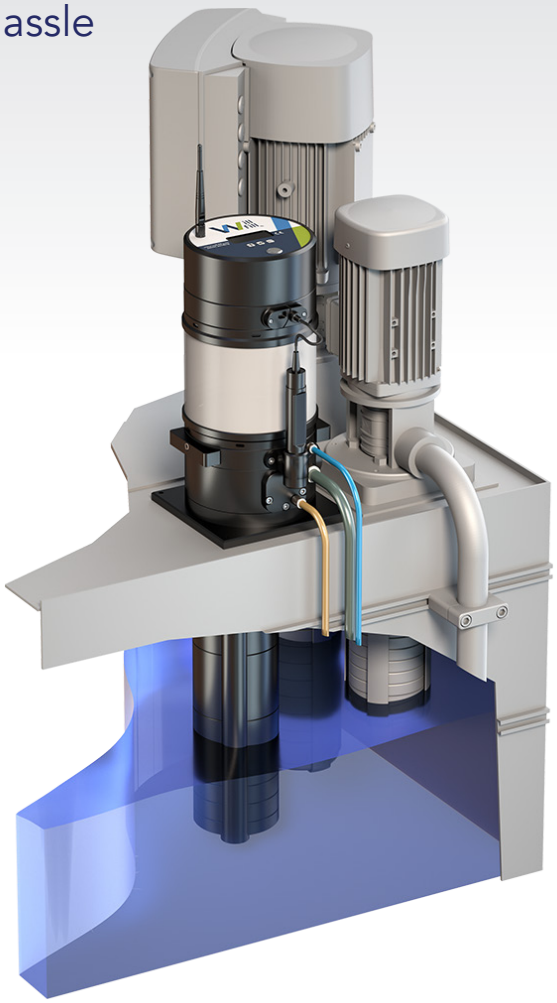
Will-Fill

Automated coolant health system that monitors and adjusts coolant concentration and level, for hassle free coolant management.

Will-Fill is a complete coolant management system designed to automate the strenuous task of managing machine tool coolant.



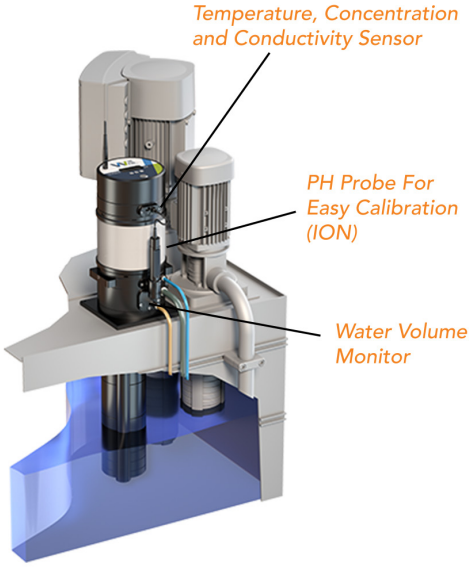
FEATURES

- Single machine and multi-machine options
- Low emulsion notifications
- Historical record of consumption and measurements
- Periodic re-mix and aeration
- Mechanically mixed to ensure consistent emulsion
- LED indicators for visual notification of faults
- Wifi/LAN data communication
- Self-priming system
- Compact installation surface (200mm x 200mm)
- Data collection/display through cloud interface and ticker screen

BENEFITS

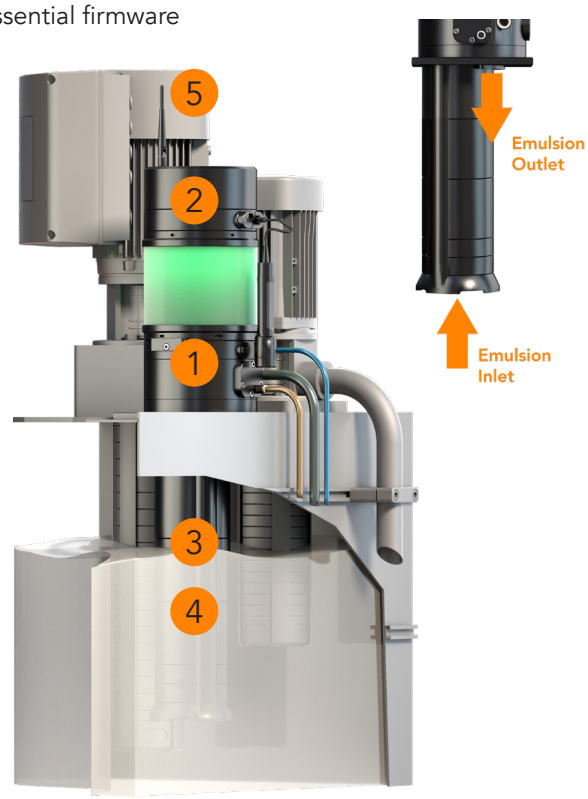
- Autonomous composition filling and refilling
- Temperature continuity
- Abnormal operation detection can detect failure of connected emulsion process
- Consumption monitoring and recording
- Increased tool life
- Reduced emulsion consumption
- Less downtime for emulsion bath changes

Measures up to 12 values. Wifi and LAN capabilities for automated e-mail notifications when manual action is required.



NEO Series

- Fluid level meter
- Water volume counter
- Fluid volume counter
- Oil/water concentration probe
- Temperature probe
- Electronic Mixer
- Electronic dosing unit
- Water lock
- Buzzer
- LED indicator
- Essential firmware



ION Series

All features from the NEO Series plus:

- Advanced firmware
- EC probe
- PH probe

MODELS

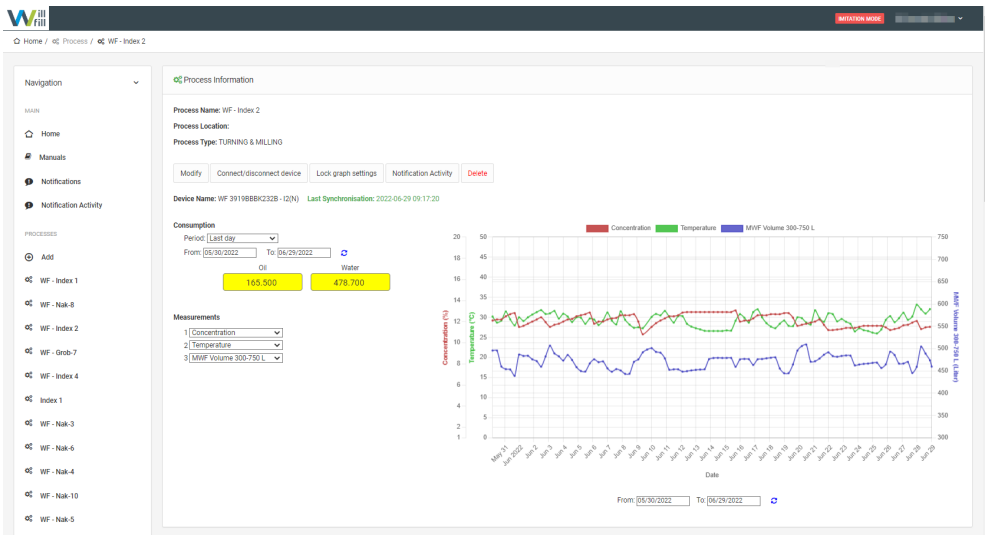
- NEO - Essential analysis
  - M - Multi-machine system
  - S - Single machine system
- ION - Advanced analysis
  - M - Multi-machine system
  - S - Single machine system

HOW IT WORKS

1. A measurement cycle is conducted
2. Measurement data is recorded and compared to the set parameters of the system
3. If needed, emulsion and water are mixed within the mixing chamber
4. The measured mixture is mixed into the current tank emulsion to fill the system or reach the desired concentration
5. Information can be viewed on the dashboard or sent via email notification for manual use

Will-Fill Cloud Dashboard & Data Records

- Create custom graph views
- View measurement data and historical records
- Monitor consumption
- Create and modify notification parameters
- Access manuals
- Troubleshoot alerts



Technical Info & Measurements

	NEO Single Machine	NEO Multi-Machine	ION Single Machine	ION Multi-Machine
Brix	0 - 35 Brix	0 - 35 Brix	0 - 35 Brix	0 - 35 Brix
PH	/	/	1 - 14 PH	1 - 14 PH
Temperature	41 - 113 °F	41 - 113 °F	41 - 113 °F	41 - 113 °F
Electrical conductivity	/	/	120 µS/cm to 12600 µmS/cm	120 µS/cm to 12600 µmS/cm
Metalworking fluid level	1mm	1mm	1mm	1mm
Water consumption	1 Liter	1 Liter	1 Liter	1 Liter
Emulsion consumption	0.01 Liter	0.01 Liter	0.01 Liter	0.01 Liter
Water flow	L/min	L/min	L/min	L/min
Water pressure detection	/	7.25 PSI	/	7.25 PSI
Air pressure detection	/	7.25 PSI	/	7.25 PSI
Emulsion level	/	1mm	/	1mm
Production capacity	800 L/h	1400 L/h	800 L/h	1400 L/h
Self-priming power of emulsion	20 meter	40 meter	20 meter	40 meter

Will-Fill vs Alternatives

	Will-Fill	Service Programs *periodic visits from an external company*	Manual *employee performed top up*	Automated Filling *low concentration emulsion to product*
Measure				
Full continuous, systematic measurements	■			
Manual, non systematic measurements		■	■	
Analyze				
Independent real time analysis	■			
No real time analysis		■	■	
Top-up				
Automated top up	■			■
Multiple safety protocols, ex. stopping when expected volume is exceeded	■			
Topping up in accordance to measurements taken	■		■	
Report				
Automatic listing of all measurement data	■			
Manual listing of some measurement data		■		
E-mail notifications when measurement limits are exceeded	■			
E-mail notifications when system has an error (ex. out of coolant)	■			
Keep track of all consumption data	■			
Condition				
Continuous conditioning of emulsion	■			
Producing a perfect homogenic emulsion	■			
Service				
Remote support	■			
Firmware updates	■			

Requirements

- Air pressure (consistent pressure between 72.5 PSI to 130.5 PSI)
- Water pressure (consistent pressure between 21.7 PSI to 87 PSI)
- Coolant source
- 120V ac. power

Check out our website for more information and a complete product list.

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