



Improve Productivity and Reduce Costs

Will fill

Automated Metalworking Fluid Control

AHB

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com



Protecting your workforce



Will-Fill supplies metalworking machines with a unique add-on that relieves operator workload and reduces the ecological footprint of your production.

The fully automatic control unit monitors the quality of the coolant in your metalworking machine. The optimal fluid level is maintained by automated filling processes and measurements configured to your specific needs.

When the quality of the metalworking fluid changes, Will-Fill can adjust it or notify you when action is needed.



BENEFITS

- Reduce tool wear
- No erosion or staining of workpiece
- Reduced MWF and water consumption
- Reduced coolant odours
- Reduced operator skin complaints
- Minimise machine downtime
- No need to employ outside companies to monitor pH, Brix, EC, Temp, etc.
- Increased productivity and profit
- HSE data capture compliance
- No manual mixing of oil & water
- Retrieval of historic data on MWF condition alerts.

1. **Ticker display** immediately shows all info
2. **Computer control**
3. External **pH probe** for easy recalibration
4. Self-priming **oil pump**
5. **Measuring and mixing chamber**
6. Adjustable **level sensor**
7. **Wi-Fi antenna**
8. **On-off switch** with internal shutdown procedures
9. **LED and buzzer indication**
10. **Handles** for easy assembly
11. Built-in **watermeter**
12. **Intake filter**

STANDARD CONFIGURATIONS

Will-Fill is available in 4 standard configurations with 8 Lengths

Will-Fill NEO - For the average metalworking machine with an emulsion reservoir

- NEO S – Single Machine Use
- NEO M – Central Coolant System Use

Will-Fill ION - For High-Performance processes with an emulsion reservoir

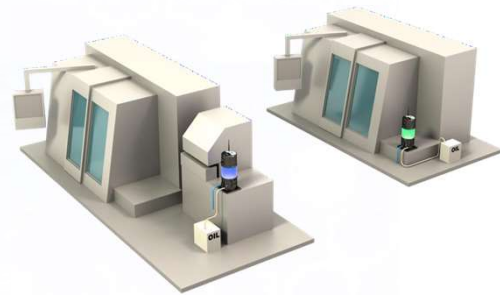
- ION S – Single Machine Use
- ION M – Central Coolant System Use

Industry 4.0

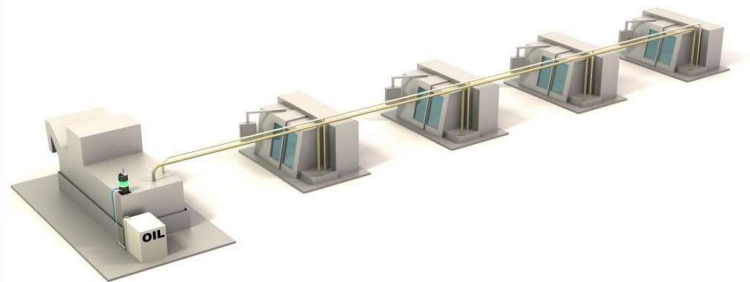


- Fully connected (internal MKI)
- Process safety features
- Autonomous PID-adjustments
- Water analysis
- Continuity of process
- Initial measurements
- Maintenance counters

Single Machine



Multiple Machines (centralized)



Standard substructure lengths are (in mm):
120 – 220 – 320 – 420 – 520 – 620 – 720 – 820.

STANDARD CONFIGURATIONS

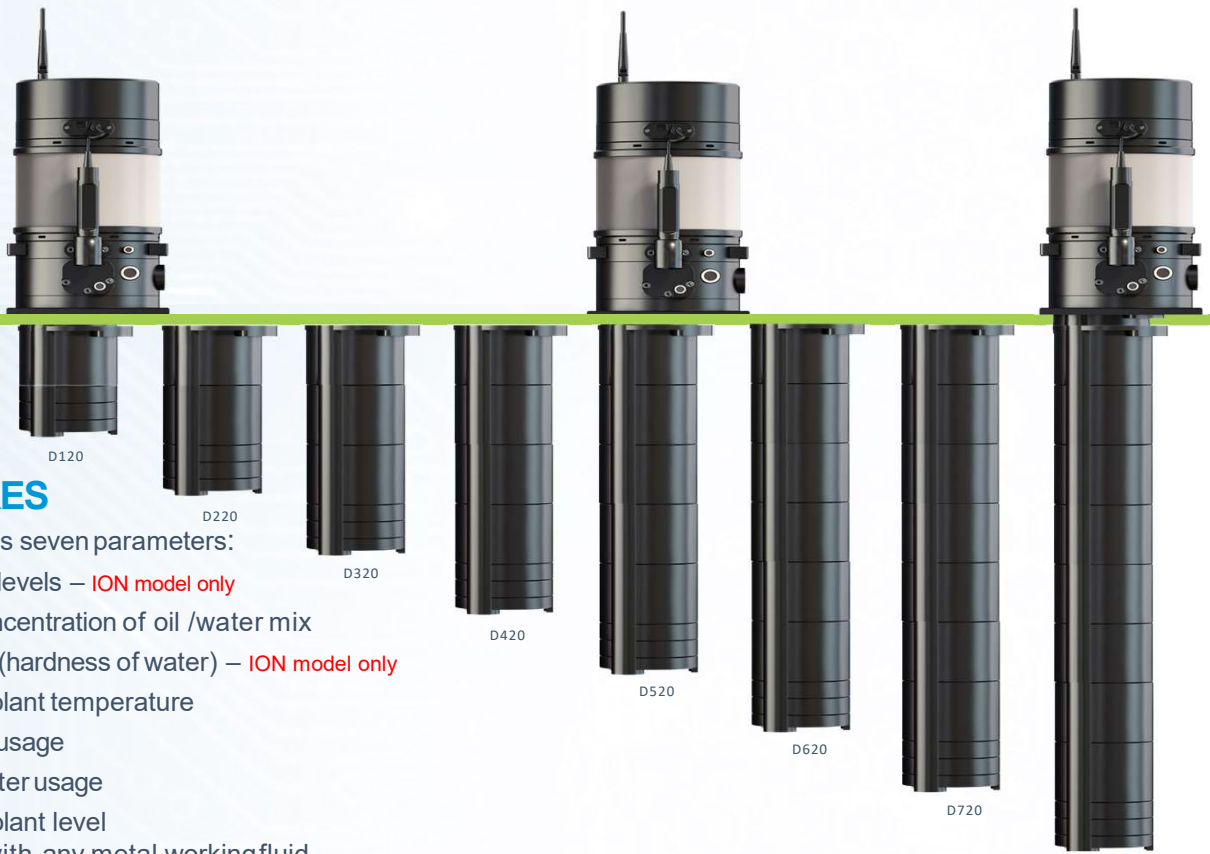
Will-Fill is available in 4 standard configurations with 8 Lengths

Will-Fill NEO - For the average metalworking machine with an emulsion reservoir

- NEO S – Single Machine Use
- NEO M – Central Coolant System Use

Will-Fill ION - For High-Performance processes with an emulsion reservoir

- ION S – Single Machine Use
- ION M – Central Coolant System Use



FEATURES

- Measures seven parameters:
 - 1 pH levels – ION model only
 - 2 Concentration of oil /water mix
 - 3 EC (hardness of water) – ION model only
 - 4 Coolant temperature
 - 5 Oil usage
 - 6 Water usage
 - 7 Coolant level
- Works with any metal workingfluid
- Fills and re-fills automatically to the level and concentration set by you
- Calibrates the sensors to the connected metalworking fluid and water supply
- Online dashboard for offsite monitoring
- Records the consumption of metalworking emulsion and water, enabling accurate cost control
- Detects abnormal fluid levels indicating a malfunction or possible leakage
- Sends an email notification of every event



Standard substructure lengths are (in mm):
120 – 220 – 320 – 420 – 520 – 620 – 720 – 820.

Take the guess work out of the process

Will-Fill is a patented and innovative solution that equips metalworking machines with a unique add on. Will-Fill monitors, reports on and adjusts the condition and mix of the metal working fluid, taking the guess work out of the process and improving operator effectiveness.

TECHNICAL INFO

Electrical connection: 220V 3A

Control/drive: 24V DC

Water connection: push-in coupling 16 mm hose

Incoming water pressure range: 1 – 7 Bar

Oil connection: push-in coupling 10 mm hose

Oil pump self-priming: < 6 m

Mixing capacity: ± 800 liters/hour Wi-Fi: 2.4 GHz

RGB LED status Alarm buzzer: 85 dB

Operating temperature: 5 – 45° C

MEASUREMENT RANGES

Brix: 0 to 35

PH: 0 to 14

Temperature: -5 to 45° C

EC: 0.5 uS/cm to 200 mS/cm

Water level: ± 5 mm

H2O consumption: ± 2 liters



**COMPLETE
METALWORKING
SOLUTIONS**

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com



Automated Metalworking Fluid Control