

Improve Productivity and Reduce Costs



Automated Metalworking Fluid Control



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 **water meter**
12. **Intake filter**

Industry 4.0 Compliant

Will-Fill is available in three variants depending on machine sump depth; detecting level fluctuations of 120, 220 or 520mm respectively.

D120



D220

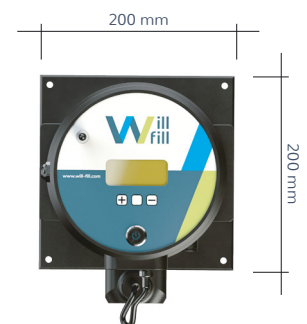


D520



FEATURES

- Measures seven parameters:
 - 1 pH levels
 - 2 Concentration of oil /water mix
 - 3 EC (hardness of water)
 - 4 Coolant temperature
 - 5 Oil usage
 - 6 Water usage
 - 7 Coolant level
- Works with any metal working fluid
- 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



Thanks to its compact design, Will-Fill can be easily installed in both existing and new metalworking fluid systems.

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 litres/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 litres



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