

Predict

Analyse

Connect

IIOT for Metalworking Fluid

Measure continuously
Regulate automatically



FluidMiner

Take care of your Metalworking Fluid
and **gain in productivity**

pH



Temperature



Concentration



Conductivity



Bath Level



Hardness



Particles &
Bacteria



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IIoT for MetalWorking Fluid



Mini laboratory embedding wireless sensors to measure in real time fluid's relevant indicators and automatically regulate the fluid when its characteristic is outside of normal operating conditions



Tank in coolant systems
MWF in machining processes
Washing Fluid



Self-regulation up to 8 baths simultaneously
Automatic alerts on thresholds
Prediction of consumption & MWF status
Measurements accessible on a 10" screen & via App

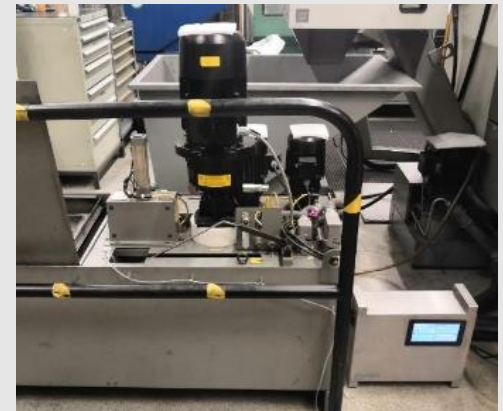


Reduce Operating Costs
Increase Tool Life
Increase cutting fluid lifetime
Reduce the need of post-process heat treatments
Improve Quality of Workpiece

Square & Octo



Mono



Predict

pH

Accuracy: ± 0.01

Measurement range: [0-14]

Concentration

Measurement range: [0-30 brix]

Accuracy: 0.05 brix

Conductivity

Measurement range: [0-10000] $\mu\text{S}/\text{cm}$

Accuracy: 100%

Temperature

Measurement range: [5°C - 65°C]

Operating parameters

Height / range: 7m / 50m max

Working temperature

[-10°C - 55°C]

Working humidity

20- 90% RH non condensing

Analyse

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Wiring category

AC Power Line

8 M12 connector for power/data of external components

Vibration

10~500Hz, 2G 10min/ 1 cycle, 60min

Each along X,Y, Z axes

External communication

Messaging protocol: MQTT, HTTP

Connectivity: GSM, Ethernet, Lora(WAN), Sigfox, NB-IOT

Store & forward in real-time applied on data to avoid data lost in case of network issues

Power

Electrical consumption: 0.5A ~ 0.7A @ 220V

Voltage range / AC: 90 ~ 264VAC

Frequency range: 47 ~ 63 Hz

Enclosure

Inox