

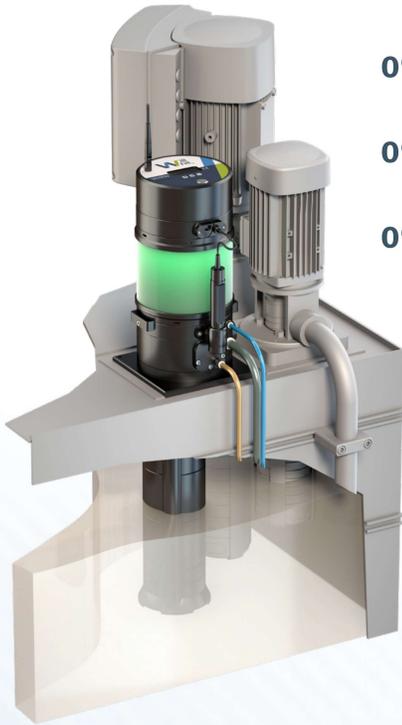


Automated Metalworking Fluid Control





WILL-FILL, THE UNIQUE EMULSION ADD-ON FOR METALWORKING MACHINES



- 0% time spent with **topping up and measuring**
- 0% time spent whitelisting data about your emulsion **ideal to achieve standards**
- 0% **of parts out of tolerance** because of coolant deviation in temperature or percentage
- 0% **cleanup or soil contamination** due to overflowing the coolant reservoir
- 0% **downtime or alarms** due to the fact that there's no coolant

Automated Metalworking Fluid Control

Service programs
periodic visits from an external company to preform measurements

Manual top up
employees will perform a topup

Automated feeding
of low concentration emulsion to your production

Measurement

Full continuous, systematic measurements				
Manual, non systematic measurements				

Analyze

Independent, real time analysis				
No real time analysis				

Top up

Automated top up				
Automated top up with multiple security protocols e.g stopping when expected volume is exceeded				
Topping up with analysis of the 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 issues (e.g. No oil)				
Keep track of all consumption data				

Conditioning

Continuous conditioning of emulsion				
Producing a perfect homogenic emulsion				

Remote service

Remote support				
Firmware updates				

WILL-FILL IN FIGURES

An unbeatable stable process

0,6%

fluctuation of the set oil-water ratio

63%

of our customers can postpone their emulsion bath changes with **80%**, resulting in **less downtime** and disposal cost

82%

of our customers **consume 43% less oil** the record is 74%

100%

of tool life because of **ideal lubrication and cooling** conditions

Will-Fill ION



WILL-FILL BENEFITS

Autonomous composition, filling and refilling

Will-Fill corrects the composition and volume of the emulsion based on the standard values you set.

Temperature continuity

Our specially prepared fillings ensure limited temperature fluctuation, which prevents dimensional deviations when introducing new cold emulsion.

No oil shutdown

Will-Fill sends a notification well in advance when the connected oil barrel is almost empty.

Alert in the event of spills, soil contamination and waste

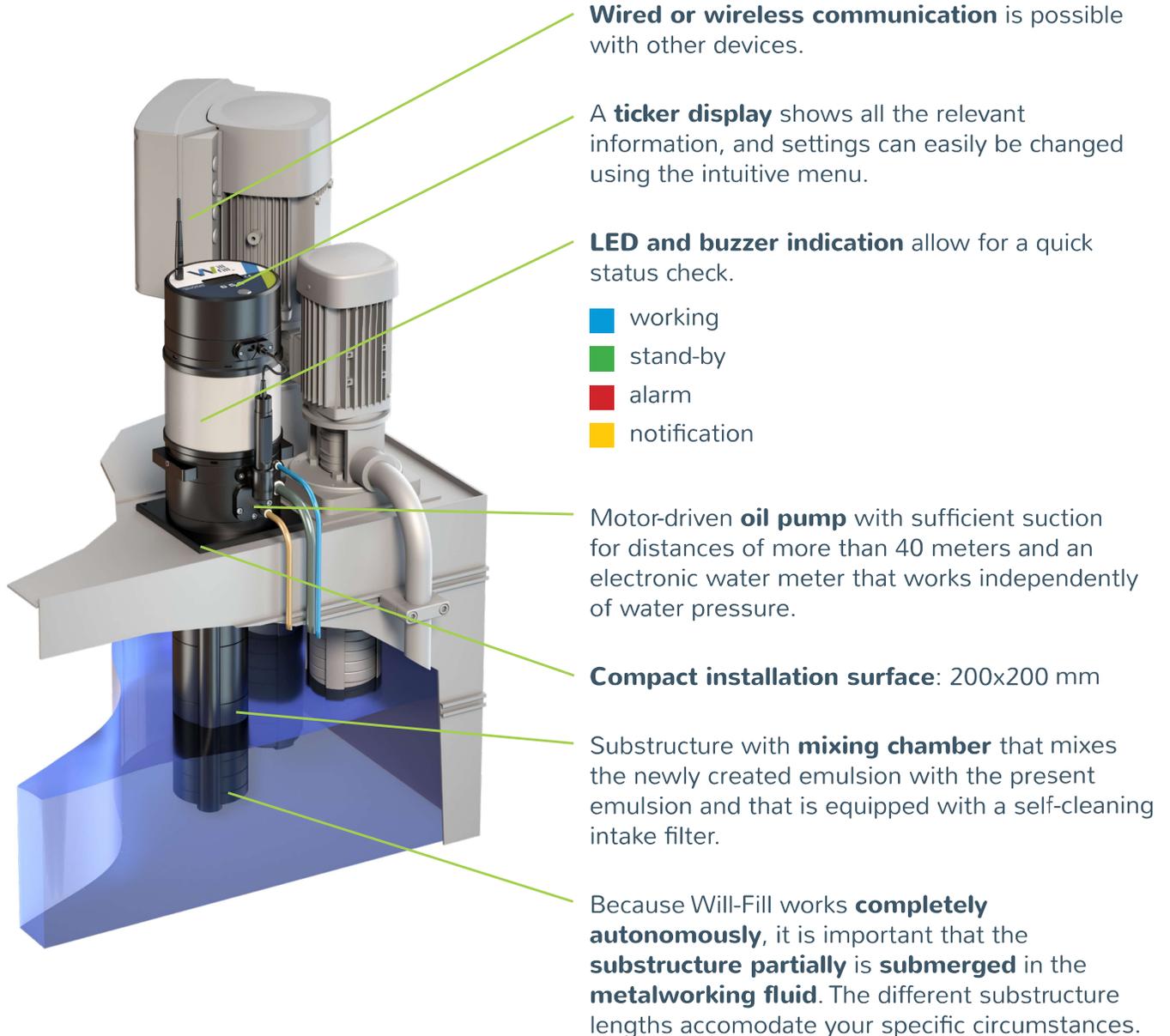
Will-Fill detects abnormal process operations, sends a warning and will not proceed with any volume changes.

Automatic monitoring

Will-Fill maps consumption and records the process data. Ideal for future analysis, reporting and certification.

IMPLEMENTATION

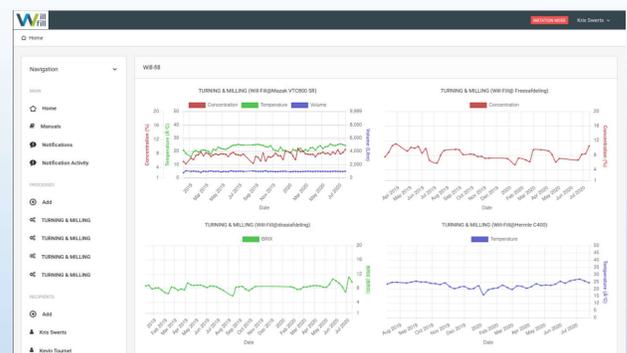
Will-Fill is always installed in the refill reservoir for the metalworking fluid. Thanks to its compact design, Will-Fill does not use any floor space and can easily be installed in both existing and new metalworking fluid systems.



WILL-FILL DASHBOARD

Via the Will-Fill dashboard, you can request the desired data (measured values and consumption). You can set up e-mail notifications so that the right person within your organization is informed.

All manuals can be found via the dashboard.



STANDARD CONFIGURATIONS

Will-Fill is available in 2 standard configurations:

Will-Fill NEO

for the average
metalworking
processes

Will-Fill ION

for high-performance
metalworking
processes



D120



D220



D320



D420



D520



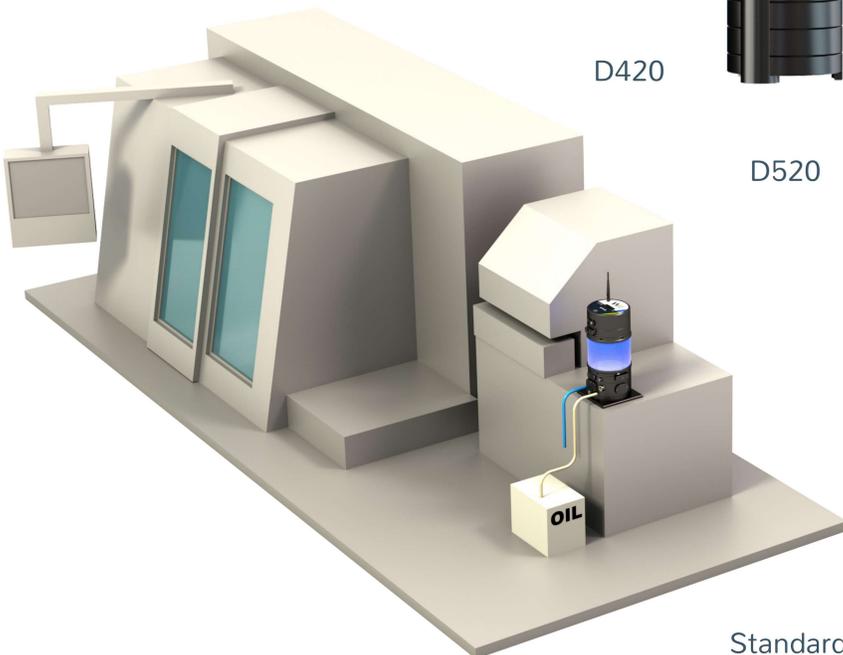
D620



D720



D820



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



Fully automatic micro fillings up to 20 cc accurate independent of the connected process

Nearly no emulsion deviation anymore from set percentage

Detects abnormal consumption, which may indicate a failure of the connected process

Uses interval concentration measurements and history measurements to determine the required concentration values for a top up

Air & Water pressure check. Device goes into hibernation mode when one is missing to prevent device damage

Automatic reporting of the measured values and consumption via the dashboard

Central Oil feed: A buffer tank near every Will-Fill, which is refilled automatically, provides steady flow of oil to device

Sends email notification of each event

Is equipped with software and sensors (PH and EC) to predict your preventive maintenance needs on the connected process

Periodic circulation to maintain homogeneous emulsion and to prevent bacterial formation at a standstill

Will-Fill determines how much oil is still present in the connected oil barrel based on consumption

Will-Fill determines how much oil is still present in the connected oil barrel based on a sensor OPC ua and FTP interface

STD - standard
 O - optional
 / - does not apply

TECHNICAL INFO & MEASUREMENTS

Brix measurement
PH measurement
Temperature measurement
Electrical conductivity measurement
Emulsion level measurement
Water consumption
Oil consumption
Water flow detection
Water pressure detection
Air pressure detection
Oil level measurement (external)
Production capacity
Circulation

Will-Fill NEO

Will-Fill ION

Single machine configuration	Multi machine configuration	Single machine configuration	Multi machine configuration
STD	STD	STD	STD
STD	STD	STD	STD
STD	STD	STD	STD
STD	STD	STD	STD
STD	STD	STD	STD
STD	STD	STD	STD
STD	STD	STD	STD
O	O	O	O
STD	STD	STD	STD
/	/	STD	STD
STD	STD	STD	STD
STD	/	STD	/
O	STD	O	STD
O	O	O	O

0 to 35 BRIX	0 to 35 BRIX	0 to 35 BRIX	0 to 35 BRIX
/	/	1 PH to 14 PH	1 PH to 14 PH
5 to 45°C	5 to 45°C	5 to 45°C	5 to 45°C
/	/	120 µS/cm to 12600 µS/cm	120 µS/cm to 12600 µS/cm
1 mm	1 mm	1 mm	1 mm
1 Liter	1 Liter	1 Liter	1 Liter
0.01 Liter	0.01 Liter	0.01 Liter	0.01 Liter
L/min	L/min	L/min	L/min
1 bar	1 bar	1 bar	1 bar
5 bar	5 bar	5 bar	5 bar
/	1mm	/	1 mm
400 L/h	800 L/h	400 L/h	800 L/h
1 200 L/h	1 200 L/h	1 200 L/h	1 200 L/h

Will-Fill is a patented and innovative solution that equips metalworking machines with a unique add-on. Will-Fill monitors and reports on the metalworking fluid as it fills and refills it.

Thus Will-Fill relieves the workload of the operator and reduces the ecological footprint of your production. Operating costs are reduced and the effectiveness of your investments is increased.

START NOW

**Configure your
Will-Fill unit
online by scanning
our QR code.**



INTERESTED?

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Will-Fill NEO



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