

For the machine tool

combiloop CL2G



Your high-pressure upgrade for cutting oil and emulsion machining

If your machine lacks the filtered high-pressure supply required for demanding drilling operations, internal machining or difficult-to-break chips, the combiloop CL2G adds exactly these capabilities as an exceptionally compact auxiliary unit: with a 140-litre clean tank, protected 3-chamber tank system with pre-separation, double changeover filter and medium-specific, frequency-controlled pump technology for cutting oil or water emulsion.



Your Plug-and-Work advantage: Maximise output and reduce unit costs through perfect chip removal – even in deep-hole drilling. The combiloop CL2G is the smart and efficient OEM and retrofit solution for virtually any of your machines.

- 1 Refined aesthetics, well-thought-out design
- 2 Ergonomically accessible filtration technology
- 3 Control panel with integrated control system and LED strip (operating status)
- 4 Removable service and inspection panels
- 5 Clean tank including protected 3-chamber tank system and high-pressure pump

// For demanding machining operations

- + Up to 120 bar at 16 l/min, depending on version
- + Suitable for difficult-to-machine and tough materials
- + Coolant supply at the cutting edge
- + Targeted chip removal
- + Early chip breaking
- + High surface quality
- + Stable machining processes

// Medium-specific pump technology

- + Gear pump (oil applications)
- + Screw pump (emulsion machining)
- + Performance optimisation through frequency inverter
- + Reduced energy consumption
- + Extended pump service life

// Cost-effective complete system

- + For high-pressure machining with oil and emulsion
- + Small footprint
- + Compact auxiliary unit
- + Integrated 140-litre clean tank
- + Flexibility in machining
- + OEM installation and retrofit

// High autonomy and safety

- + Cartridge filtration down to 25 µm
- + Optional double changeover filter: uninterrupted filter change
- + 3-chamber tank system with pre-separation to 150 µm extends component service life
- + Standard: flow-rate monitor and early warning of filter contamination
- + Closed filtration circuit reduces particle contamination risk in the clean tank

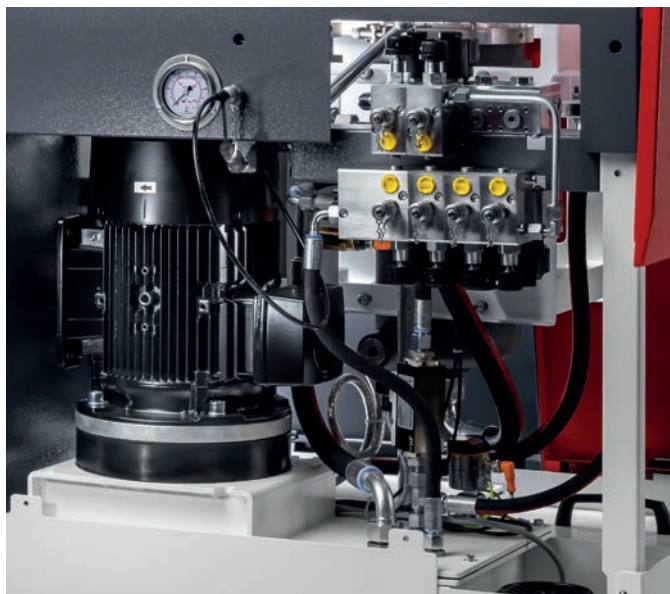


Application-specific filtration: From washable wire mesh for sustainable continuous use through to burn-out glass-fibre elements for loss-free precious metal recovery.

Find out more at:
muellerhydraulik.de



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Process reliability as standard:

Up to 10 switchable high-pressure outlets can supply different tools independently or provide individual machining steps with specific pressure levels. If a coolant channel or nozzle becomes blocked, the integrated flow-rate monitor immediately raises an alarm.

Double changeover filter:

Two separate filter chambers ensure continuous operation. An LED provides an early indication when the capacity limit is approaching. Unlike a single-element filter, this allows the filter element to be changed without interrupting the cooling lubricant supply.

3-chamber tank system:

The integrated pre-separation retains coarse particles before they reach the cartridge filtration stage. This reduces the load on the filter elements, extends their service life and protects the downstream high-pressure technology.

EQUIPMENT	· 1,091 mm x 602/669 mm x 1,098 mm (L x W x H), weight approx. 270 kg, 140-litre clean tank, 3-chamber tank system with pre-separation · High-pressure cutting oil: gear pump, 120 bar / 16 l/min · High-pressure emulsion: screw pump, 70 bar / 23 l/min · Electrical control system, power supply 3~/ PE 400 V / 50 Hz
FLOW RANGE	· 9 / 12 / 16 / 20 / 23 / 24 l/min
PRESSURE	Depending on the version, continuously adjustable up to 70 bar (emulsion) or up to 120 bar (oil)
FILTER / FILTER FINENESS	· 150-µm prefilter integrated in the 3-chamber tank system · Replaceable filter, wire mesh (washable) or glass fibre (disposable element) · Double changeover filter, wire mesh (washable) or glass fibre (disposable element) · Filter fineness: 25 µm / 40 µm / 60 µm (option: 10 µm)
OPERATION	· Cutting oil: max. 16 l/min at 120 bar · Water emulsion (min. 5% oil content): 20 l/min at 70 bar
SERVICE CONNECTIONS	· Up to 10 controllable service connections
OPTIONS	· Frequency inverter (FQZ) · Mechanically pressure-controlled high-pressure outlets (XDR) · Pressure control via the machine programme (DST) · High-pressure pump also available as a screw pump on request · Fine filtration per high-pressure line down to 6 µm



Would you like to learn more? We'll be happy to advise you!
Arrange a consultation – online, by phone or in person.