

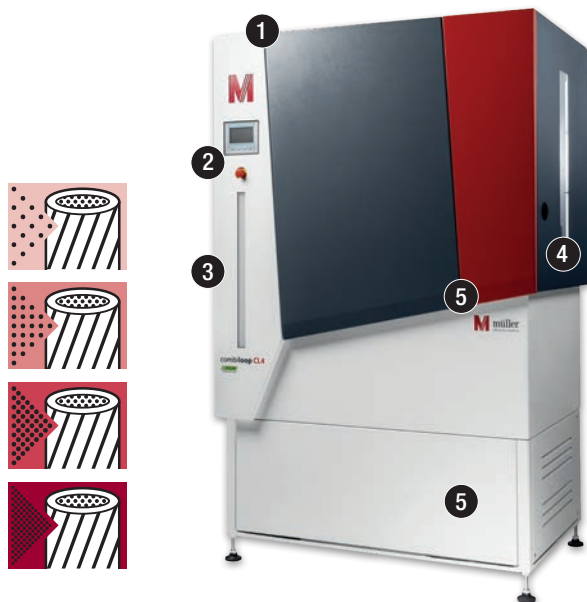
For the machine tool

combiloop CL4G-300



Uncompromisingly compact. Maximum performance in minimum space

The combiloop CL4G-300 combines energy-efficient high-pressure coolant supply up to 300 bar, high-pressure and bypass filtration, separate spindle flushing and optional temperature management in a highly compact integrated solution. Available with either a compact belt filter or self-cleaning automatic filter, with filtration capacity up to 60 l/min at 40 µm and a 300-litre clean tank. **For cutting oil and emulsion.**



High pressure redefined: With a footprint of just 0.96 m², the CL4G-300 combines essential coolant processes for Swiss-type lathes, lathes and compact machining centres. Achieve maximum precision and increase your profitability without sacrificing valuable floor space.

- 1 Well-thought-out, space-saving industrial design
- 2 Ergonomically integrated, intuitive control panel
- 3 Highly visible LED strip (early contamination warning)
- 4 Compact belt filter: ergonomic, clean fleece change with removable collection tray. Automatic filter: automatic discharge (non-stop operation). No consumables.
- 5 Removable service panels for quick maintenance

// Maximum performance density

- + Footprint of just 1,200 × 800 mm
Up to 300 bar; filtration capacity up to 60 l/min (40 µm)
- + 300-litre clean tank as standard
- + Space for up to two pumps
- + Active cooler can be integrated

// Process reliability and flexibility

- + High-pressure supply and separate spindle or cover flushing (two pumps)
- + Stable pressure even during spindle flushing
- + Enables deep-hole drilling and complex internal machining
- + Clean counter spindle prevents clamping marks
- + Up to 10 switchable, programme-controlled high-pressure outlets

- + Flow monitor for maximum process reliability

// Process-specific filtration

- + Compact belt filter with collection basket for used filter fleece
- + Self-cleaning automatic filter with automated chip discharge
- + Integrated bypass filtration of the machine tank

// The right pump technology for oil and emulsion

- + Cutting oil: eco+ pressure-regulated piston pump (efficient, low heat input)
- + Emulsion: robust screw pump (optionally frequency-controlled)
- + Temperature stability precisely matched to process requirements
- + Optional: active cooler (up to 7.5 kW) or plate heat exchanger (up to 10 kW)



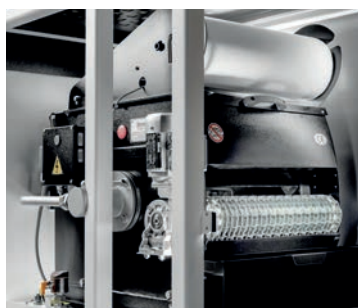
eco+ pressure-regulated piston pump:

Unlike fixed-displacement pumps, the flow rate adjusts purely mechanically all the way down to 0 l/min. This virtually eliminates power losses and unnecessary heat input. This saves a significant amount of electricity and can deliver annual savings of up to four figures. Per system!

Find out more at:
muellerhydraulik.de



For the machine tool combiloop CL4G-300



Consistently compact by design:

The CL4G-300 combines a 300-litre clean tank, filtration, smart control and pump technology in a vertical layout. The intelligent design ensures maximum performance with a minimum footprint. Full flexibility in temperature management: the optional, retrofittable active cooler is simply mounted on top – with no increase in footprint.

Compact belt filter:

Reliable filtration at up to 60 l/min (40 µm). Alternatively available: self-cleaning automatic filter with no consumables and automated chip discharge for maximum process autonomy.

Up to 10 switchable high-pressure outlets:

Tools are supplied with the exact pressure under programme control. Flow monitoring ensures maximum process reliability.

EQUIPMENT	· 1,200 x 800 x 1,850/2,200 mm, weight approx. 650/750 kg · 40–300 bar, eco+ pressure-regulated piston pump or screw pump, 300-litre clean tank, electrical control system, flow monitor and pressure control · Power supply 3~/ PE 400 V / 50 Hz
FLOW RATE RANGE	· 0–60 l/min, depending on performance configuration (60 l/min max. filtration capacity of the system at 40 µm)
PRESSURE (EXAMPLES)	· Option 1: 20 l/min at 150 bar and 20 l/min at 15 bar · Option 2: 37 l/min at 70 bar and 20 l/min at 15 bar · Option 3: 45 l/min at 70 bar and 12 l/min at 15 bar · Many other configurations available (on request)
FILTER / FILTER FINENESS	· Automatic filter (40 µm), bypass filtration, desludging in a dedicated tank section with automated scraper discharge · Compact belt filter (40 µm) with filter fleece collection basket, bypass filtration
OPERATION	· Cutting oil · Water emulsion (min. 5% oil content)
SERVICE CONNECTIONS	· Up to 10 controllable service connections
OPTIONS	· Active cooler, 7.5 kW (modular installation on top of the base unit) · Plate heat exchanger up to 10.0 kW · Frequency inverter · Orange LED alarm when 80% of the filter fleece has been used · Separate second pump for spindle or cover flushing from the clean tank



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