

For the tool machine

# combiloop CL3 G



## Best-In-Class High-Pressure System. For More Money In Your Pocket!

Temperature stability and extremely economical with oil. The smallest footprint for flushing capacities of up to 60 l/min in the emulsion. Sustainability and Industry 4.0 safety features as well as a 250 l clean liquid tank integrated as per standard. Your benefit? Maximum service life, maximum operating cost reduction, noticeable production area optimisation. With maximum process reliability. combiloop CL3 G – the high-pressure system for all those who already stand for progress and the future in high-pressure cutting with cooling lubricants.

**Superior in terms of precision turning and for high-strength materials – up to 300 bar and 27 l/min with the lowest possible heat transfer.**

**Game-changer for all medium-sized turning and machining centres: the smallest footprint combined with maximum performance with 60 l/min at up to 70 bar.**

- 1 Expressive, dynamic design meets 100% meticulousness
- 2 User-friendly: ergonomically integrated, easy to control
- 3 Clearly visible advance contamination warning (LED)
- 4 Replaceable filters: changing the up to 10 µm fine elements from above is fast and clean  
Automatic filters: flushing tank – drain possible while running operation
- 5 Revision panels: technology easily accessible; flexible when setting up

### // ECO+ Dynamic Power Concept

- + Continuous from 0 to 60 l/min; high energy efficiency
- + Ideal control pump concept for your maximum flexibility
- + Low heat input
- + Reliable processing
- + Reduction of rejects, increase in output quality
- + Improved environmental footprint
- + Reduced operating and electricity costs
- + High-quality, durable pumps

### // Three dynamic filtration concepts in the smallest of spaces

- + Automated production thanks to low-maintenance automatic filters; sustainable

- + Dynamic replaceable filters: long service life
- + Cascading filtration at an attractive price also for high flushing performances
- + Wire mesh (washable): environmentally friendly, cost-efficient
- + Bypass and full flow filtration

### // Clever modular system with the highest standards

- + One system concept – any machining operation
- + Industry 4.0 safety features to prevent machine downtimes
- + Safety: flow-rate monitor fitted as standard
- + Plate heat exchanger (cooling) inside
- + Operates with any standard cooling lubricant

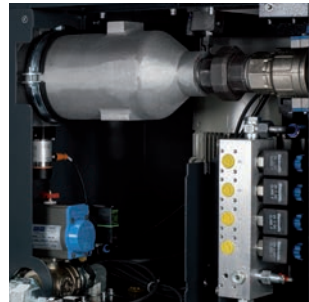
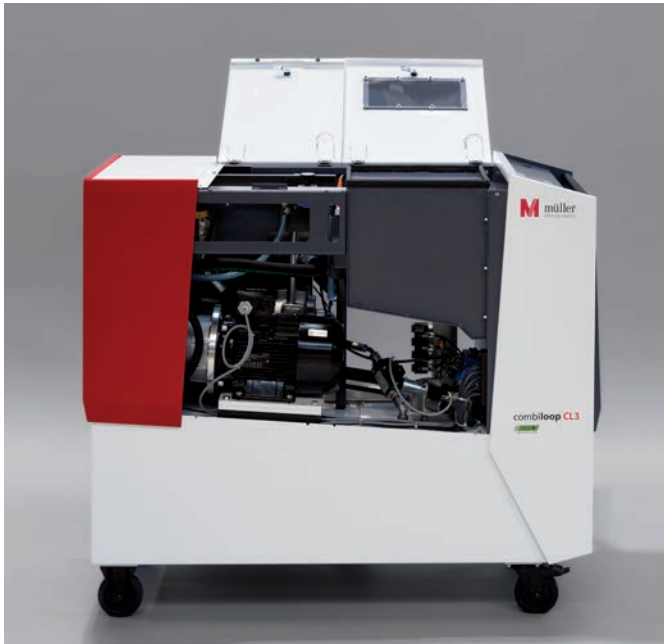
### // Ingenious, well-considered design

- + Fast filter change with no contamination of the clean area
- + Accessibility: high operating and service ergonomics
- + Lightweight removable inspection panels: tightest installation
- + Smallest footprint in its performance class
- + Large 250-litre clean liquid tank
- + Safety, professionalism, durability

More at:  
[muellerhydraulik.de/en/](http://muellerhydraulik.de/en/)



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### Picture on left:

The energy- and temperature-efficient control pump is ideal for the smallest deep-hole drillings and internal machining that require high pressures with the lowest flushing capacity (up to 0 l/min). Even with large-volume chip flushing, the pump is always ready for use and reacts within milliseconds. Conclusion: you save money – with the maximum output and smallest possible energy input. Do the calculations and compare for yourself.



### Pictures on right:

All our filter concepts are dynamic. They ensure a long service life compared to hydrostatic applications (e.g., bag filters, compact belt filters). Plus: a higher performance, a high separation efficiency up to fully automatic cleaning through an automatic filter with flushing tank. Make your filtering more ecological and sustainable. Reduce your operating costs.

<b>EQUIPMENT</b>	<ul style="list-style-type: none"> <li>· Approx. 1,422 x 602 x 1,240 mm (L x W x H), max. weight approx. 742 kg</li> <li>· &lt; 300 bar, eco+ pressure-controlled piston pump, 250 l clean liquid tank, electronic control</li> <li>· Power supply: 3~/PE 400 V/50 Hz</li> </ul>
<b>FLOW RANGE</b>	<ul style="list-style-type: none"> <li>· 9–60 l/min</li> </ul>
<b>PRESSURE</b>	<ul style="list-style-type: none"> <li>· 30 bar to maximum 70 bar at 40 to 60 l/min</li> <li>· 80 bar to maximum 110 bar at 27 l/min</li> <li>· 130 bar to maximum 150 bar at 20 l/min</li> </ul>
<b>FILTERS / FILTER FINENESS</b>	<ul style="list-style-type: none"> <li>· Replaceable filter, glass fibre: 25 µm (optional 10 µm)</li> <li>· Double changeover filter, glass fibre: 25 µm (optional 10 µm)</li> <li>· Automatic filters: 30 µm, bypass filter, sludge removed in wire mesh collector (150 µm)</li> <li>· Cascade filter, preliminary filter: 500 µm, post-filter: 40 µm, both washable (optional fine filter: 25 µm, 10 µm)</li> </ul>
<b>OPERATION</b>	<ul style="list-style-type: none"> <li>· Cutting oil (eco+ high-pressure pump as pressure-controlled piston pump)</li> <li>· Water emulsion (min. 8% oil content, eco+ high-pressure pump as speed-controlled constant pump)</li> </ul>
<b>SERVICE CONNECTIONS</b>	<ul style="list-style-type: none"> <li>· Up to 10 controllable service connections</li> </ul>
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>· Flow sensor as standard</li> <li>· Early warning for filter change</li> <li>· Cooling: full and bypass flow</li> <li>· Clear, modern functions visualisation via LED colour coding system</li> </ul>



Would you like to know more? We will be happy to advise you! Contact us to arrange a consultation – online, over the phone or in person.