

Dear Business Partners and Friends,

Our “in”novative combiloop CL6 G brings high-pressure CL systems for large machining tools onto a brand-new level. Designed for multi-spindle machines, short lathes and any other machine that needs a high flow rate, the combiloop CL6 G introduces a new dimension in terms of sustainability, design and efficiency. You’re probably wondering why “in”-novation ...?



Well, what better way to underline the innovative features “inside”? After all, this is the world’s first compact, self-contained high-pressure cooling lubricant system for large machining tools – a perfectly designed solution with all key technologies inside. The innovative, modular configuration – from the disinfection to the cooler – not only brings better machining results, but also boosts profitability, sustainability and saves space.

How did this revolutionary concept come about? Customers kept asking us whether we could design a compact system that integrated all of Müller’s efficiency-optimising technologies – such as the automatic filter, high-pressure regulation technology and control capacities – but also offered a smart, modular design with high-performance flushing and maximum lubricant availability. We were intrigued by the number of demands. Thinking outside the box, this meant getting rid of all the peripheral high-pressure cooling lubricant equipment used in conjunction with the large machine tools and packing these inside an attractively designed, efficiency-boosting and process-stabilising CL peripheral solution. Durable, smart – as you’d expect from Müller.

This proved to be a real challenge, but the solution and performance speak for themselves. The combiloop CL6 G allows you to increase the number of manufactured units while reducing unit costs and saving space. This way, you’re making a tangible contribution towards the environment – rather than just paying it lip service. After all, large machine tools are not exactly a new market segment for us. We are approaching the market in a brand-new way. We hope that you enjoy discovering our “in”novative combiloop CL6 G – because your efficiency matters!

Yours, Martin Müller

COMBILOOP CL6 G: THE COMPACT CL SYSTEM REVOLUTION

Agreed? – The first self-contained, compact high-pressure CL system for large machine tools

The latest Müller innovation is the first of its kind on the market – a compact, high-pressure CL system that features a fascinating, space-saving design, impressive performance and key integrated technologies.

Three models for all fields of application

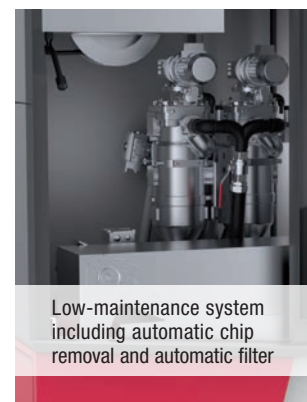
The three basic models and modular design have all fields of application and customer needs covered. All models can be used with either emulsion oil or cutting oil. With an 800-l clean liquid tank and max. 150 l/min. flow rate, the combiloop CL6 G 800 is equipped with up to three pumps. The middle system, the combiloop CL6 G 1200, can hold up to 1,200 l clean liquid, has a max. flow rate of 300 l/min and can be equipped with up to four pumps. The heavy-weight champion is the combiloop CL6 G 2500 with a 2,500-l clean CL tank and a max. flow rate of 450 l/min – the supreme choice for all machines that need a large quantity of cooling lubricant to circulate. This machine is equipped with up to five pumps.

Clever, modular design for greater efficiency – the top benefits



The **high-end compact belt filter** is equipped with a paddle system that enables chips and sludge to be continuously scraped off. Advantages:

- // Process reliability with high flushing capacity and fine impurity filtration
- // Significant increase in the service life of the filter fleece
- // Cost reduction of consumables



combiloop CL6 G can be fitted with **automatic** state-of-the-art **filtration**. Up to three automatic filters are installed in series in the two largest systems and fitted with an **automatic chip removal system**. Sludge is continuously transported away in the chip cart. This results in a system that needs virtually no maintenance or consumables, enabling the operator to focus on production, instead of changing the filters and cleaning the tank.

COMPACT HIGH-PRESSURE UNITS FOR LARGE MACHINE TOOLS!



The combiloop CL6 G 1200 – emulsion model. Fitted here with the patented compact belt filter, 25-kW top cooler, emulsion disinfection, filterable outlets, and much more.



The **self-regulating eco + piston pump** is fitted as standard for all oil systems. This technology is extremely effective, reduces energy consumption due to its regulability and transfers significantly less heat into the lubricant. In order to ensure Müller efficiency in the emulsion system as well, these models are fitted with a **screw pump and a frequency converter**. Both customers and the environment benefit from a significant reduction in energy consumption, lower electricity costs and less heat generation as a result of the revolution speed controls.

However, the combiloop CL6 G contains many other innovative technologies that bring CL high-pressure machining onto a brand-new level:

- // A **flow-rate monitor** (integrated as standard) and other sensors ensure trouble-free operation and high process stability.
- // An integrated **add-on cooler** lowers the temperature of the full-flow and bypass filtration, increasing dimensional accuracy and reducing rejects.
- // An integrable thermal **CL disinfection** module not only enables increased productivity and significant cost savings, but also has a positive impact on occupational health and safety.

In a league of its own: self-contained, compact, aesthetic and uniquely integrated technologies!

At long last, the aesthetically functional system now has a competent high-pressure peripherals solution that lives up to the demands of modern machining. The shape of the system has been designed to look both dynamic and attractive. It is an intuitive, appealing design that interacts with the operator, making the tool enjoyable and easier to use:

- 1 Clearly visible LED lamp indicates operation status.
- 2 User-friendly: ergonomically integrated, simple controls.
- 3 A sliding door means that pumps, cooler (on option), valves, etc. are easily accessible at all times.
- 4 Practical and safe: A sliding glass door ensures that the filter technology and compact belt filter fleece are always visible.
- 5 Integrated chip trolley conveniently picks up chips, filter sludge and filter fleece for their safe removal.
- 6 Three sizes of clean liquid tanks: CL available in the desired quantities.

Boost profitability with the combiloop CL6 G:

- // Reduce your unit costs
- // Boost your productivity
- // Increase your output quality
- // Reduce maintenance-related downtime
- // Increase the services life of your tools and cooling lubricant many times over

Achieve better machining results with greater profitability and more sustainability! With the combiloop CL6 G – because your efficiency matters!

JUST A FEW OF THE MANY BENEFITS:

- + a self-contained system: safety and professionalism
- + clever, pioneering design
- + increased production capacity from the same space
- + high availability of clean cooling lubricant
- + energy-efficient high-pressure pumps
- + smart technology for greater process reliability
- + ... to name just a few!



Discover the full details and benefits in our virtual showroom at:

cl6g.muellerhydraulik.de