



## HYDRAULICS

***Developments in hydraulics needs interdisciplinary expertise. And it is precisely on this point that LCM plays to its strengths. Thanks to the knowledge of our experts from a diverse range of fields, we can take on even the most demanding of hydraulic tasks - from initial concept to series production.***

### YOUR BENEFITS:

Our years of experience in all specialist fields of hydraulics and its various branches form the basis to develop tailor-made solutions for you from a single source – whether it involves groundbreaking digital hydraulics, a new hydraulic drive system, optimising components or simply improving energy efficiency.

Digital hydraulics in particular raises high expectations. And quite rightly so, as initial market-ready solutions have demonstrated. The possible applications of this new technology range from micropositioning to energy-efficient drives. Its economical use of energy in hydraulic systems, too, is becoming an increasingly decisive factor. LCM's solutions are a testament to the significant cost savings that can be made. After all, they enable a smaller primary drive to be constructed, significantly reducing investment costs as well as the amount of heat wasted and in turn the level of cooling required.

In parallel to this, we offer ready-made solutions and components for an array of different applications. With our optimisation tools for hydraulic component development, you can rest assured that you will have the competitive edge. Plus with fast-acting FSVi (Fast Switching Valve with integrated electronics), your hydraulics will go the extra mile – in automotive engineering, emergency stop applications and many other situations.





#### OUR EXPERTISE INCLUDES:

- Comprehensive expertise in all specialist fields of hydraulics
- Interdisciplinary approach to solving hydraulic problems
- Seamless range of services from concept design to series production
- International leader in highly-dynamic valve development technology
- Pioneering efforts in the field of digital hydraulics
- Increased energy efficiency in hydraulic systems coupled with reduced costs
- Optimised performance of hydraulic components and systems
- Development of electrohydraulic hybrid drive systems

#### CURRENT REFERENCES:

Our expertise in hydraulic projects can be demonstrated by the numerous projects that we have undertaken for customers in a wide variety of sectors. This is just a small selection of our references:

- Hydraulic digital valves: FSVi
- Digital hydraulic micropositioning system for machine tools
- Press drives (high precision and energy-efficient)
- Digital hydraulic calibration systems
- Development of highly dynamic check valves
- Hybrid punch drives