

FAST/SPS Sintering Press

LSP 100 LABORATORY SINTERING PRESS

- Laboratory Sintering Press for research and development
- Made for smaller specimen dimensions with Ø10 - 30 mm
- Offers all the advantages of short cycle times by FAST/SPS technology (see page 4)
- Precise measurement of temperature and pressure
- Software for process documentation via PC

Options

- Pulse generator for DC transformer
- AC transformer
- Remote maintenance
- High temperature up to 3000°C
- Fine vacuum
- Software for sinter program administration via PC

Total electrical power	40 kVA
Max. heating current	3.200 A
Pressing force	2 - 30 kN
Opening height	Max. 100 mm
Temperature measurement	Pyrometer Optional: Thermocouple
Sintering atmosphere	Vacuum/inert gas



*This machine is under development. All information is preliminary.

Many leading universities and research institutes around the world use the FAST/SPS Sintering Presses from Dr. Fritsch. Up until now, these sintering presses were relatively large, because they often involved the development of new products for the industry. In research, however, material samples with a small diameter are also often sintered, e.g. 10-30 mm. For exactly this application, Dr. Fritsch has now developed a new FAST/SPS Sintering Press.

The LSP 100 Laboratory Sintering Press is very compact and designed for small laboratories. Attached wheels allow flexible and easy positioning of the machine. A glovebox can be connected and an independent cooling water supply is possible as an option as well. Alternatively, the machine can be connected to fresh water supply thanks to its low cooling water consumption. As an option the DC transformer can be equipped with a pulse generator. Alternatively, an alternating current (AC) transformer can be installed. This opens up totally new possibilities in research by changing the direction of the current flow. A patent has been filed, which gives the LSP 100 additional features (to be published in near future). Typical for Dr. Fritsch is the very intuitive operation and clear definition of access authorization. In this way, even less experienced employees can work quickly and safely with the FAST/SPS systems.