



I4-LAP 700



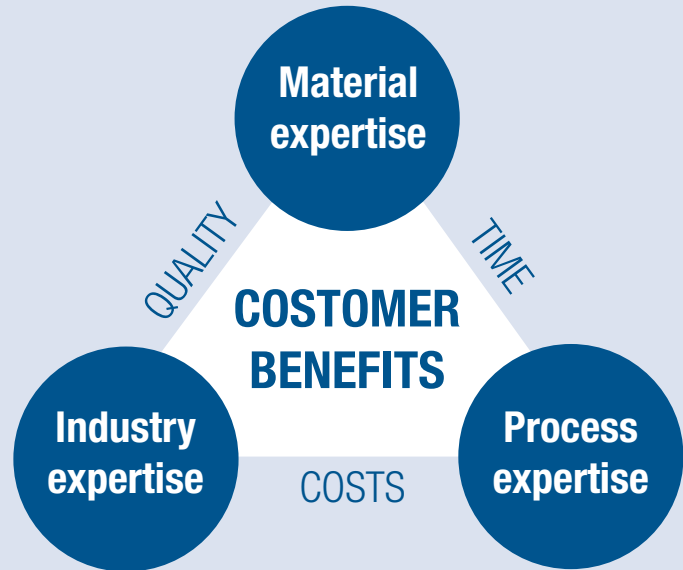
Simply perfect surfaces with Industry 4.0

Submikron – your competent system partner.

In the last few years, Submikron has amassed a high level of expertise in materials, processes and the industry:

Consistent new innovations have made Submikron a systems supplier for mechanical fine grinding, lapping and polishing. Machines, working discs, and consumables are developed and manufactured in-house at Submikron. This allows Submikron to generate customised products in order to optimise processes and enable simply perfect surfaces to be produced.

Here, we present “Tech-Light” – the new generation of the **I4 LAP 700** single disc lapping machine. Not only is the design new, this machine also offers new possibilities, such as the implementation of industry 4.0 specifications in the field of fine grinding, lapping and polishing. Together with the highly efficient LPS disc conditioning system and the CP8 Allrounder combined polishing-lapping in one disc, Submikron provides a well-rounded and reliable system for the lapping process.



TECHNICAL DETAILS

Model

I4-LAP 700

Working discs ø	700
Conditioning ring inner ø	275
Number of conditioning rings	3
Output [kW]	2.2
Voltage [V]	400
Speed [rpm]	10-80
Dimensions [mm]	1800 x (1400) x 1070 x 1980
Weight [kg]	1100
Pneumatic	○
Stainless steel frame	○
Painted steel frame	●
LPS (Lapping Profiling System)	○

● standard ○ optional

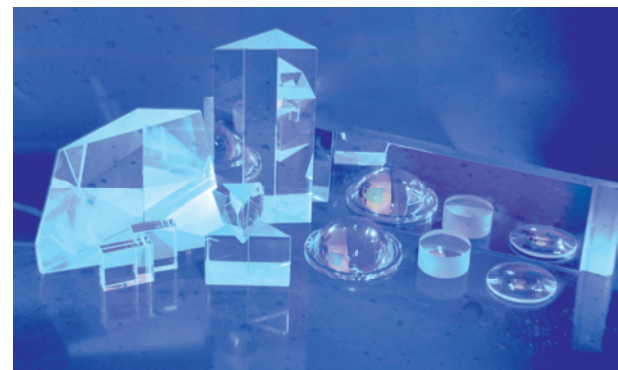
Innovations

- Innovative machine design
- I 4.0 Integration of the machine into a production and process control system
- Siemens S7-1200 controller with a 9-inch TFT widescreen display
- Assemblies controlled by bus system
- Recording and control of all important process parameters, such as speed, pressure, temperature, and ablation
- Integrated dosing for diamond suspensions and conventional lapping fluids
- Lapping fluid and waste tank on 2 removable roll containers for easy handling
- Central loading and unloading station for workpieces
- Remote maintenance



Options when using LPS

- Inspection and visualisation of the lapping disc flatness
- Correction of the lapping disc by dressing on the machine
- Spiral grooving of the lapping disc on the machine



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