The Injector Linac of the DELTA-Facility, G. BLOKESCH, J. FRIEDL, A. JANKOWIAK, C. PIEL, T. WEIS, K. WILLE and DELTA GROUP, University of Dortmund, 44221 Dortmund, Germany -

The DELTA (Dortmund Electron Test Accelerator)-facility is a 1.5 GeV synchrotron radiation light source consisting of a storage ring, a full energy booster synchrotron and an S band linac (2998.55 MHz) of 65-100 MeV output energy. In its major components the linac has been constructed out of parts of the old 400 MeV linac of the University of Mainz. Two of the old high gradient sections have been combined with a 50 keV gun (1.5 A, 2-20 ns, 100 Hz) and a 4 MeV buncher section (built at LAL, Orsay). The linac is powered by two klystrons each delivering 20 MW rf-power. First operation started end of 1994. Since summer 1995 the linac is operating routinely as injector for the booster and delivers 200 mA at 70 MeV. The paper presents the layout and present data of the linac, the rf-system and the monitoring system, and summarises the operation experience.