

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.