Diagnostic System of the Eindhoven Linac-Racetrack Microtron Combination, J.I.M. BOTMAN, R.W. DE LEEUW, L.W.A.M. GOSSENS, H.L. HAGEDOORN, W.H.C. THEUWS, C.J. TIMMERMANS, Eindhoven Univ of Techn., Cyclotron Lab., P.O. Box 513, 5600MB Eindhoven, The Netherlands - For the electron storage ring EUTERPE a 10 MeV linac and a 10-75 MeV racetrack microtron will serve as injectors. For commissioning, that will take place in two stages, an elaborate diagnostic system is under construction. First, proper injection into the microtron will be ensured. For that purpose the properties of the linac beam will be characterised along the connecting transfer line by means of OTR, beam position and Hence the beam can be current measurements. matched to the calculated acceptance of the microtron. Second, the microtron itself will be commissioned. 12 x 2 Beam position monitors will be used to fulfil the twelve closed orbit conditions. A phase-probe in the microtron drift space will be used to verify the isochronism-conditions. As a special feature one of the microtron magnets will be used as spectrometer to determine accurately the energy of the injected beam and the voltage and phase of the accelerating cavity.