

Manufacturing of Electron Accelerators,
Y. JONGEN, Ion Beam Applications s.a., Louvain-la-Neuve - Ion Beam Applications, was founded in 1986 to design and manufacture cyclotrons for industrial and medical applications. In 1991, after having sold some 30 cyclotrons, the company decided to make a step outside the field of cyclotrons, and to design and build electron accelerators for industrial applications. IBA started to develop the Rhodotron accelerator, invented by J. Pottier from the CEA, France. The paper explains the rationale for expanding the accelerator range, gives a brief history of the relation with CEA and describes the experience of the development of the Rhodotron. Then the paper explains the requirements for marketing a completely new concept of accelerator, like the Rhodotron, and concludes on some remarks about the challenges of designing, building and supplying a new machine to a new market.