Study and Construction of a Trapped Ion Source, A. BOGGIA, G. BRAUTTI, A.P. ERRICO, A. RAINO', Dipartimentodi Fisica e INFN Sez. Di Bari; N. CECI, V. VALENTINO, V. VARIALE, INFN Sez. Di Bari - In this work we present the design and the construction of a Trapped Ion Source (TIS) that can be seen as a modified version of an EBIT and an EBIS. One can foresee that TIS could overcome some drawbacks of the EBIT and EBIS making it a more flexible device. Furthermore a detailed discussion on the electron beam transport with focusing quadrupoles of new design will be also shown.