

The invention relates to mechanical engineering, namely to electrochemical combined laser working of metals and can be used for drilling holes and turning grooves, in particular, for the manufacture of helical splines in gun tubes. The tool electrode for dimensional electrochemical machining comprises a working part of an arbitrary shape (1) with a central channel (2), which communicates with an ellipsoidal chamber (3), divided by a partition (4) into two parts, of which the upper part is filled with a transparent, easily evaporable liquid (5) and is equipped with a focusing lens (6), fixed on the upper part of the body of the chamber (3). The focus of the lens (6) is aligned with the center of the partition (4), made in the form of an elastic membrane, in the center of which is fixed a light-absorbing target (8), made in the form of a hollow hemisphere, oriented with the cavity to the lens (6). The lower part of the chamber (3) is equipped with a bypass channel system (7) for electrolyte. The working part (1) and the workpiece (10) are connected to a voltage source (9).

Claims: 1

Fig.: 1

