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The invention relates to the mechanical engineering technology, namely to processes for electric discharge machining of mated faces of the machine elements, for example of the gear-wheels, pump bolts etc.

The process includes communication to the tool-electrode, made in the form of a body of revolution, of a rotary motion and advance to the piece from the tracking mechanism of the machine tool. The tool-electrode is made as an even element, imitating the real conditions of execution by means of coordinated displacements with respect to the mobile ($X_1Y_1Z_1$) and fixed (XYZ) coordinate systems, the origin of which coincides with the precession motion center, the Z_1 axis forming with the Z axis the nutation angle and describing a conic surface with the apex in the precession center. The tool-electrode is communicated a supplementary motion with respect to the X_1 and Y_1coordinates, the axis of the tool-electrode passing through the precession motion center at an angle with the plane formed by the X_1 and Y_1 axes.

Claims: 3
Fig.: 1