

Abstract:

A rotary table device according to the present disclosure includes a base portion, a bearing, a table rotatably supported with respect to the base portion via the bearing, and a motor operable to rotate the table in a rotational direction of the bearing. The motor includes a coil row fixed to the base portion and having a plurality of flat, annularly wound three-phase coreless coils arranged side by side, and a magnet row arranged opposite to the coil row and fixed to the table, and having a plurality of plate-shaped magnets arranged side by side in a circumferential direction of the table with alternating magnetic poles. The table has an outer circumferential surface on which a scale is printed around the entire circumference. A sensor for reading the scale is mounted on the base portion.