1. An adjustment device (310) for positioning a uterine manipulator (111), the adjustment device (310) comprising:

a linear translation assembly (322) comprising a rail (328) and a carriage (330) that is movable in a horizontal axis direction;

a rotatable support component (344) that is configured to be secured to the uterine manipulator (111), rotatable with respect to the linear translation assembly (322), and rotatable from side to side with respect to a rotational axis (340) defined by the adjustment device (310), wherein the rotational axis (340) extends parallel to the horizontal axis direction, and wherein the rotational axis (340) intersects a patient's cervix; and

a rotatable receptacle (326) that is configured to be secured to an articulation control element (119) of the uterine manipulator (111) and rotatably coupled to the rotatable support component (344) such that the adjustment device (310) is configured to rotate the uterine manipulator (111) with respect to the rotational axis (340) and to articulate a portion of the uterine manipulator (111) with respect to the rotatable support component (344).

2. The adjustment device (310) of claim 1, wherein the rotatable receptacle (326) provides a seat in which the articulation control element (119) is securely mounted for rotating the articulation control element (119).

3. The adjustment device (310) of claim 1, wherein the carriage (330) is slidable linearly along the rail (328).

4. The adjustment device (310) of claim 1, wherein the linear translation assembly (322) is configured to be fixedly attached to a positioning arm (104) of a uterine positioning system (300).

5. The adjustment device (310) of claim 1, further comprising one or more mechanical actuation cables (354, 356) that are configured to selectively cause the rotatable support component (344) to rotate in opposite rotational directions.

6. The adjustment device (310) of claim 5, further comprising a remote motor (372) that is coupled to and controls the one or more mechanical actuation cables (354, 356).

7. The adjustment device (310) of claim 1, further comprising one or more mechanical actuation cables (362, 364) that are configured to selectively cause the rotatable receptacle (326) to rotate in opposite rotational directions.

8. The adjustment device (310) of claim 7, further comprising a remote motor (376) that is coupled to and controls the one or more mechanical actuation cables (362, 364).

9. The adjustment device (310) of claim 1, wherein the articulation control element (119) comprises a handle (119), and wherein the portion comprises a distal tip (115).

10. A positioning system (300) comprising:

a positioning arm (104); and

the adjustment device (310) of claim 2, wherein the adjustment device (310) is supported on the positioning arm (104) for positioning the uterine manipulator (111).

11. The positioning system (300) of claim 10, wherein the positioning arm (104) defines a global position of the adjustment device (310), and wherein the adjustment device (310) defines a local position of the uterine manipulator (111).