CLAIMS

1. A dental implant, comprising: a body part to be implanted inside an alveolar bone, an abutment part for fitting a dental prosthesis and a neck part connecting said body part and said abutment part; wherein a side surface and a bottom surface of said body part are rough surfaces, and said neck part is a cone structure gradually shrinking toward a bottom end of said neck part; a radial dimension of the bottom end of said neck part is less than a radial dimension of a top end of said body part, so that a horizontally oriented platform surface is formed on an area on the top end of said body part which is not covered by the bottom end of said neck part, and wherein said platform surface and a side surface of the neck part are rough surfaces, the side surface of the neck part having a roughness lower than a roughness of the platform surface.

2. The dental implant of claim 1, wherein the roughness of said platform surface is 1 micron to 20 micron.

3. The dental implant of claim 1 or 2, wherein the roughness of the side surface of said neck part is 0.1 micron to 2 micron.

4. The dental implant of any one of claims 1 to 3, wherein said abutment part is of a cone structure, a radial dimension of a top end of said neck part being 3mm, 3.8mm, 4.8mm or 5.8mm, and a radial dimension of a bottom end of said abutment part is less than the radial dimension of the top end of said neck part; the difference of the radial dimensions between them is 1.5mm or 2mm; the radial dimension of the top end of said body part is 3mm, 3.8mm,

4.8mm or 5.8mm, and the radial dimension of the bottom end of said neck part is less than the radial dimension of the top end of said body part; the difference of the radial dimensions between them is 0.5mm or 1mm; a radial dimension of a bottom end of said body part is 2.5mm, 3.1mm, 3.9mm or 4.8mm; an axial length of said abutment part is 4mm, 5mm or 6mm; an axial length of said neck part is 1mm, 2mm or 3mm; an axial length of said body part is 8mm, 10mm or 12mm.

5. The dental implant of any one of claims 1 to 3, wherein a radial dimension of a top end of said abutment part is less than a radial dimension of a bottom end of said abutment part, so that said abutment part is showed as a cone structure with narrow top end and wide bottom end, an angle range between a central axis and a side generatrix of the cone structure is 2 degrees to 4 degrees.

6. The dental implant of claim 5, wherein middle axes of said body part and said neck part are coincident with each other.

7. The dental implant of claim 6, wherein an angle formed between the middle axis of said abutment part and the middle axis of said neck part is 15 degrees, 20 degrees or 25 degrees.

8. The dental implant of claim 1, wherein said body part is a tapered structure gradually shrinking toward a bottom end, the side surface of said body part contains a first screw thread part, a second screw thread part and a third screw thread part which are connected from top to bottom in sequence; a screw

thread shape of the first screw thread part is a micro screw serrated shape with a screw thread tip in a same level, and a pitch is 0.5mm-1.0mm; a screw thread shape of the second screw thread part is a rectangular screw thread, and a pitch is 1.0mm-2.0mm; a screw thread shape of the third screw thread part is a serrated screw thread with a screw thread tip downwards, and a pitch is 1.0mm-2.0mm; and a length ratio of the first screw thread part 6, the second screw thread part 7 and the third screw thread part 8 is1:2:3.

9. The dental implant of claim 8, wherein the first screw thread part, the second screw thread part and the third screw thread part are double threaded.

10. The dental implant of claim 8, wherein a side-cut groove is arranged on the side surface of said body part, and the side-cut groove is arranged on the third screw thread part in an entire axial length.

11. The dental implant of claim 10, wherein the side-cut groove is one or multiple side-cut grooves evenly distributed, and the side-cut groove is a straight groove or a curved groove.

12. The dental implant of any one of the preceding claims, wherein said abutment part is tetrahedron, pentahedron or hexahedron.

13. The dental implant of any one of claims 1-12, wherein an insert hole for inserting a screwdriver is arranged on said abutment part, and a middle axis of said abutment part is perpendicular to a top surface of said body part.

14. The dental implant of claim 13, wherein said insert hole is quadrilateral, pentagonal, or hexagonal.