

IN THE CLAIMS

This listing of the claims replaces all prior listings:

1. (Currently amended) A cutting insert, comprising:
 - an upper surface;
 - a lower surface;
 - a side surface which is connected to the upper surface and the lower surface, and comprises a first side surface and a second side surface in order one after the other; and
 - a cutting edge comprises
 - a first flat cutting edge and a first major cutting edge in order one after the other in an intersection region of the first side surface and the upper surface, and
 - a second flat cutting edge and a second major cutting edge in order one after the other in an intersection region of the second side surface and the upper surface, wherein
 - the first side surface comprises a first chamfered side surface with a curved shape, a first corner side surface with a planar shape, and a first major side surface in order one after the other,
 - the second side surface comprises a second chamfered side surface with a curved shape, a second corner side surface with a planar shape, and a second major side surface in order one after the other,
 - the intersection region of the second side surface and the upper surface comprises
 - a first intersection region of the second chamfered side surface and the upper surface, and
 - a second intersection region of the second corner side surface and the upper surface, [[and]]

the second flat cutting edge which is located from the first intersection region to the second intersection region, and has a downward convex curve with respect to a reference plane perpendicular to a central axis of the cutting insert and a lowermost portion in the first intersection region in a side view, and

the second flat cutting edge comprises

a curved cutting edge which is located in the first intersection region and has a downward convex curve with respect to the reference plane in a side view; and

a first inclined cutting edge which is located in the second intersection region and is inclined upward with respect to the reference plane as the first inclined cutting edge separates from the curved cutting edge in the side view.

2. (Canceled).

3. (Canceled).

4. (Currently amended) The cutting insert according to claim 1 [[3]], wherein a curve formed by the curved cutting edge is a spline curve.

5. (Currently amended) The cutting insert according to claim 1 [[3]], wherein the cutting edge further comprises a second inclined cutting edge which is located in the second intersection region and is connected to the first inclined cutting edge, and is inclined upward with respect to the reference plane as the second inclined cutting edge separates from the first inclined cutting edge in a side view.

6. (Original) The cutting insert according to claim 5, wherein an upward inclination angle of the second inclined cutting edge with respect to the reference plane is decreased as the second inclined cutting edge separates from the first inclined cutting edge in a side view.

7. (Currently amended) The cutting insert according to claim 1 [[2]], wherein
the second side surface further comprises a second intermediate side surface
located between the second corner side surface and the second major side surface,
the intersection region of the second side surface and the upper surface
further comprises a third intersection region of the second intermediate side surface
and the upper surface, and
the cutting edge further comprises an intermediate cutting edge which is
located in the third intersection region and has an upward convex curve with
respect to the reference plane in a side view.
8. (Currently amended) The cutting insert according to claim 1 [[2]], wherein the
first major cutting edge is located in an intersection region of the first major side
surface and the upper surface in the intersection region of the first side surface and
the upper surface, and is inclined downward with respect to the reference plane as
the first major cutting edge approaches the second corner side surface in a side
view.
9. (Original) The cutting insert according to claim 8, wherein the first major cutting
edge is continuously inclined downward with respect to the reference plane as the
first major cutting edge approaches the second corner side surface in a side view.
10. (Currently amended) The cutting insert according to claim 1 [[2]], wherein the
cutting edge further comprises an auxiliary major cutting edge which is located
between the first major cutting edge and the second flat cutting edge, and is
inclined downward with respect to the reference plane as the auxiliary major
cutting edge approaches from the major cutting edge to the second flat cutting edge
in a side view.

11. (Currently amended) The cutting insert according to claim 10, wherein the auxiliary primary ~~major~~ cutting edge is continuously inclined downward with respect to the reference plane as the auxiliary primary ~~major~~ cutting edge approaches from the first major cutting edge to the second flat cutting edge in a side view.

12. (Currently amended) The cutting insert according to claim 10, wherein a downward inclination angle of the auxiliary primary ~~major~~ cutting edge with respect to the reference plane is increased as the auxiliary primary ~~major~~ cutting edge approaches from the first major cutting edge to the second flat cutting edge in a side view.

13. (Previously presented) A cutting tool, comprising: a cutting insert according to claim 1; and a holder configured to attach the cutting insert thereto.

14. (Original) The cutting tool according to claim 13, wherein the cutting insert which is attached to the holder and has a negative axial rake angle with respect to a rotation axis of the holder.

15. (Previously presented) The cutting tool according to claim 13, wherein the second flat cutting edge is perpendicular to the rotation axis of the holder.

16. (Canceled).

17. (Previously presented) A method of manufacturing a machined product, comprising:

rotating a cutting tool according to claim 13;

bringing the cutting edge of the rotating cutting tool into contact with a
workpiece; and
separating the cutting tool from the workpiece.