**Machining operation prediction**

**Prismatic Features**

1-Hole

2-Slot

3-Pocket

4-Step

5-Boss

6-Facing

7-Chamfer

8-Fillet

9-Rounded Corner

Inputs for prediction of machining operations for **Hole: Diameter, Depth, Surface finish and tolerance**

Inputs for prediction of machining operations **Slot, Pocket, Step, Facing: Length, Width, Depth, Surface finish and tolerance.**

Inputs for prediction of machining operations for **Boss:** **Diameter, Depth, Surface finish and tolerance**

Inputs for prediction of machining operations for **Chamfer: Distance, Angle, Surface finish and tolerance**

Inputs for prediction of machining operations for **Fillet: Radius, Surface finish and tolerance**

Inputs for prediction of machining operations for **Rounded Corner: Radius, Surface finish and tolerance**

**Predictions of Cutting tools**

**Prismatic Features**

1-Hole

2-Slot

3-Pocket

4-Step

5-Boss

6-Facing

7-Chamfer

8-Fillet

9-Rounded Corner

**Operations**

1-Drilling

2-Counter drilling

3-Counter sinking

4-Reaming

5-Boring

6-Milling

**Work Material**

1-Steel

2-Stainless steel

3-Aluminum

4-Cast Iron

5-Special Material

**Tool Material**

1-Carbide

2-HSS

3-Cobalt

4-Nitride

5-Ceramic