



You can use Bearing Generator directly online through the MakerWorld customizer. Go to [Bearing Generator on MakerWorld.com](#) and select *Customize* to get started.

A standard *Type* supplies its stored inner diameter, outer diameter, width, and flange dimensions. Select *Custom* when you want *Inner Diameter*, *Outer Diameter*, *Width*, *Flange*, *Flange Diameter*, and *Flange Width* to define the bearing.

*Ball* creates spherical elements, *Roller* creates broad elongated elements, and *Dumbbell* creates a necked profile. Each option also changes the matching raceway geometry and the number of elements that fit around the bearing.

*Spacing* controls the separation and resulting count of rolling elements around the ring. *Clearance* adds a gap between the elements and their raceways; increase it when printed moving parts fuse together.

Choose one of the included F-series values for *Type* to use its stored flange dimensions. For a custom bearing, enable *Flange* and set *Flange Diameter* and *Flange Width* manually.

Movement depends on printer calibration, material, layer height, and the selected *Clearance*. Small bearings may need extra clearance or gentle cleanup after printing. Use *Slice* to inspect the internal geometry, and do not treat a printed bearing as a rated replacement without testing it under the intended load and speed.