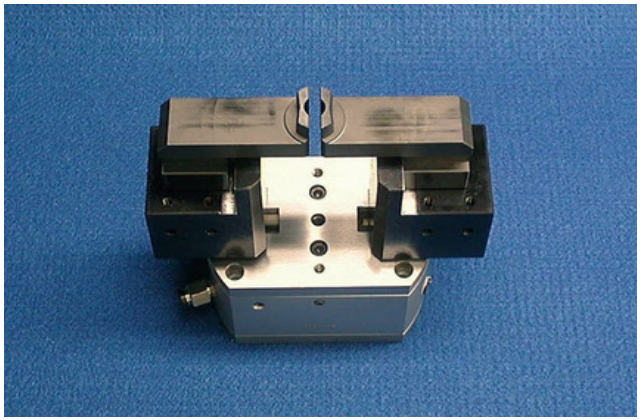
NAKASEIKI

Special Chuck & Custom Jaw Design Case Studies

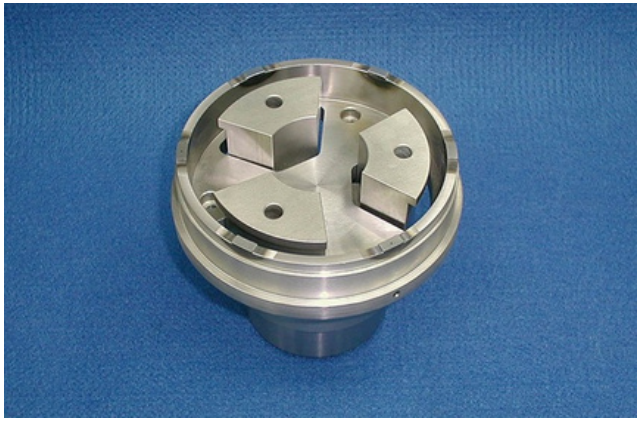
We comprehensively produce chucks that are directly linked to product precision. Here, we present examples of custom jaw designs manufactured based on customer requests.

To reduce distortion when clamping thin-walled workpieces, a small chuck is adopted. The jaws are designed with lightweight construction while considering durability of the gripping section.

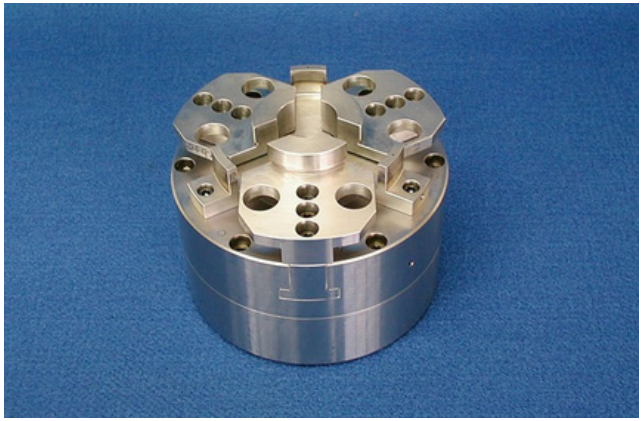
Added a keyway structure to the jaw support base. Installation and removal of molded jaws became smoother. (Hollow-hole ring straw type)



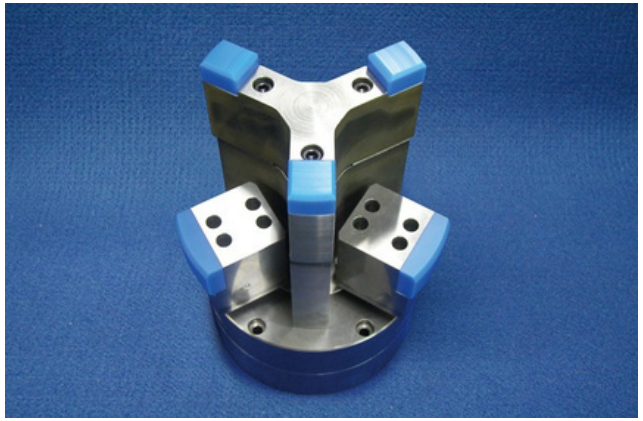
The characteristic is that the gripping force is considerably larger relative to the size of the chuck.



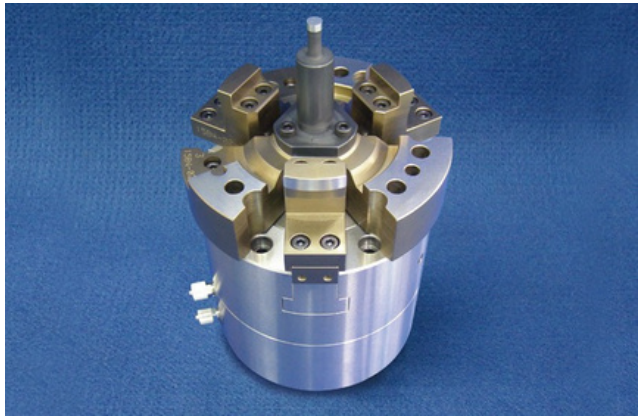
By replacing the sub-jaws in the parent–child jaw system, multiple types of workpieces can be clamped.



By replacing the molded jaws, two types of workpieces can be clamped—one by the outer diameter and the other by the inner diameter. The work stopper was shared.



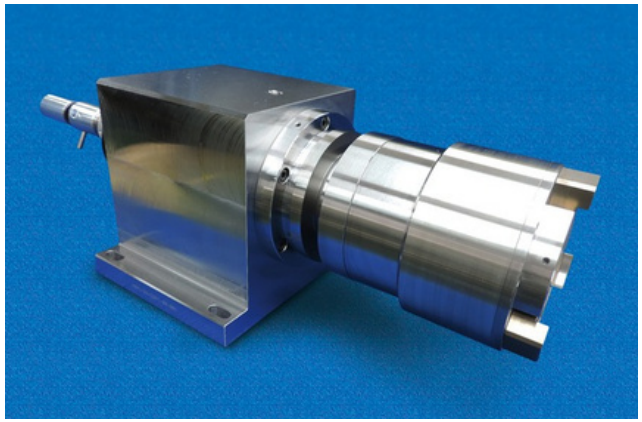
Supports machining of bowl-shaped workpieces with varying depths and inner diameters. Resin is applied to contact areas to prevent scratches, and the jaws are precisely molded.



Precision assembly chuck. With a center pole and finely shaped gripping jaws, it enables precise assembly of workpieces.

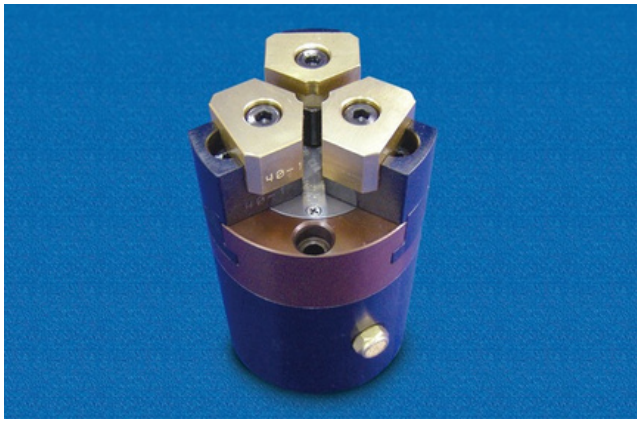
A jig chuck with a rotary journal mechanism attached to a standard chuck. It can be used with machining centers, milling machines, and drilling machines.

Spike jaws have been mounted on the four-jaw long-stroke type. This allows easy handling and transportation of square material workpieces.

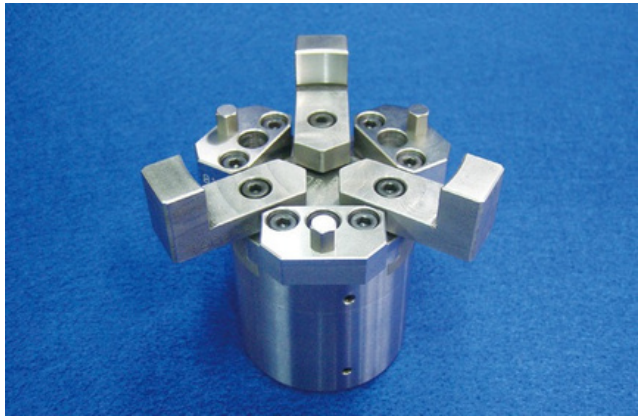


Manufacturing of a spindle equipped with a chuck is possible. By making the housing rectangular, installation can be done easily.

Air chuck for measurement. The cylindrical-shaped workpiece support is ideal for positioning.



Rust-proof treatment has been applied to the chuck. Brass jaws are used to prevent scratches on the workpiece.



Due to space limitations of the machine, a compact chuck has been adopted. The tip of the workpiece support is designed as a purchasable structure.