

Ultra-precision indexing and forming grinding

ULTRA-PRECISION INDEXING AND FORMING GRINDING MACHINE

SGC-104 SL2S

Index Series

Vertical indexing (VD)

Horizontal indexing (HD)



Features

■The new machine enables "ultra-precision grinding with a high-precision indexing machine," which was not possible in the past. Based on the SGC-104 column-type ultra-precision grinder with high rigidity and high precision, this grinder is equipped with an ultra-precision indexing machine to enable precision indexing of mold parts, gears, couplings, and other components.

1. SGC-104 on the Machine Base

The SGC-104 is an ultra-precision grinding machine equipped with hydrostatic guide that achieve table straightness accuracy of 1 $\mu\text{m}/\text{m}$ or less and hydrostatic bearings that ensure sub-micron rotational accuracy and mirror surface machining.

2. Various Dress Forming and Dressing Devices

Various types of grinding wheel forming can be mounted according to the machining application. Grinding wheel forming accuracy has the greatest impact on machining accuracy. NAGASE offers a wide variety of unique high-precision dressing systems. Twin rotary and twin swivel dresser are available. Indexing reproducibility of 0.5 sec. (*1)

*1 Measurement by autocollimator (12-face mirror)

3. High Precision Indexing Machine

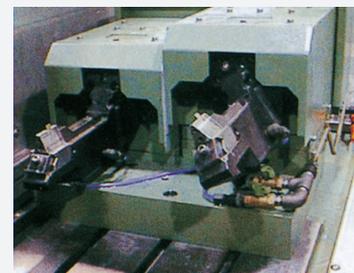
NAGASE's unique non-backlash, non-lost motion mechanism and hydrostatic guideway inner surface enable the high-precision indexing machine to achieve an accuracy of 0.5 seconds with a resolution of 1°/10000 resolution. High accuracy can be maintained for many years. Vertical and horizontal types can be selected according to the application.



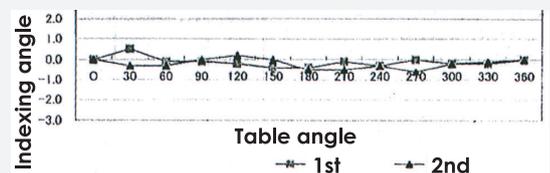
Horizontal indexing machines



Rotary dressers and indexing machines



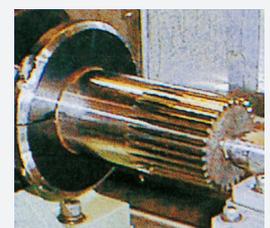
Twin swivel dresser



Indexing precision measurement results



Vertical indexing



Horizontal indexing