

Glossary

Index accuracy

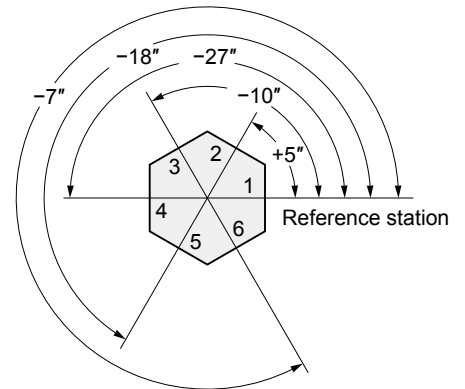
The index accuracy of ABSODEX is the difference between the target position set by an NC program and the actual stop position.

This target position is the angle (seconds) from the reference station (origin return position).

As shown in the right figure, the index accuracy is calculated using the maximum value and minimum value of the differences between the target positions and actual stop positions. These positions are expressed with $\pm x$ seconds and the width as shown in the figure.

For angle measurement, a high-precision encoder is used.

Index accuracy measurement example



Measurement positions	Measurements
1	0
2	+5"
3	-10"
4	-27"
5	-18"
6	-7"

Index accuracy ± 16

Repeatability

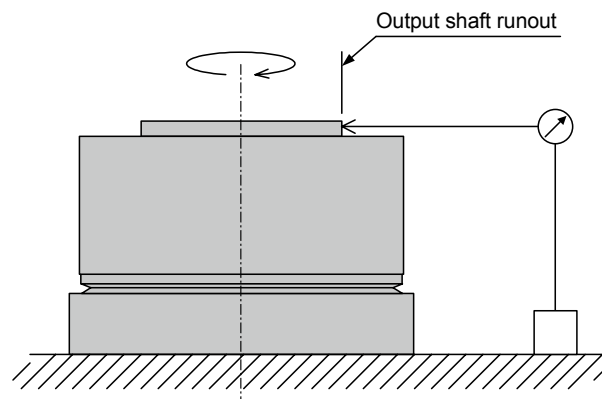
The repeatability expressed by angle (seconds) is the maximum value of angle irregularities of the repeat stop positions when reciprocating operation is performed for a certain target position under the same conditions.

The repeatability and the index accuracy must be used differently according to the accuracy characteristics required for the machine.

*Second: A unit (degree/minute/second) for expressing an angle.
1 degree = 60 minutes = 3600 seconds

Output shaft runout

This the runout accuracy of the inlay side on the table mounting side.



Output shaft surface runout

This the runout accuracy of the table mounting side.

* Measured at the periphery of the screw hole for mounting the table.

