

Glossary

Index accuracy

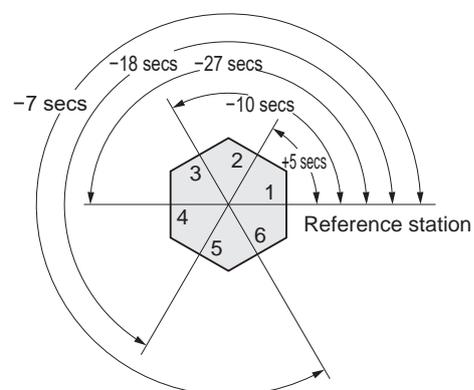
The index accuracy of ABSODEX is the difference between the target position set by an NC program and the actual stop position.

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 secs
3	-10 secs
4	-27 secs
5	-18 secs
6	-7 secs

Index accuracy ± 16 secs

Repeatability

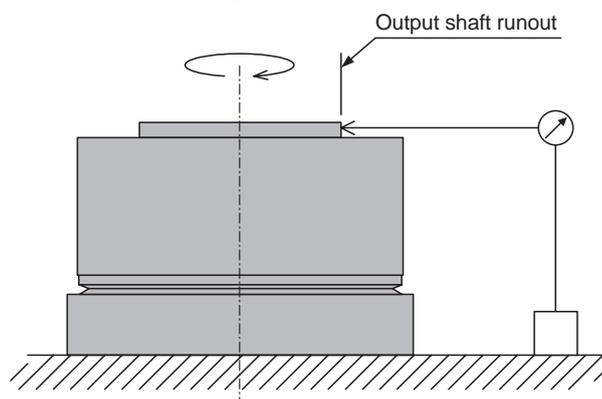
The repeatability expressed by angle (seconds) is the maximum value of angle irregularities of the repeat stop positions when reciprocating operation is performed for a certain target position under the same conditions.

Depending on the accuracy characteristics required by the equipment, it is necessary to differentiate repeat accuracy and index accuracy.

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

Output shaft runout

Runout accuracy of the inlay side of the table mounting part.



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.

