SANDEX-α Alpha Series

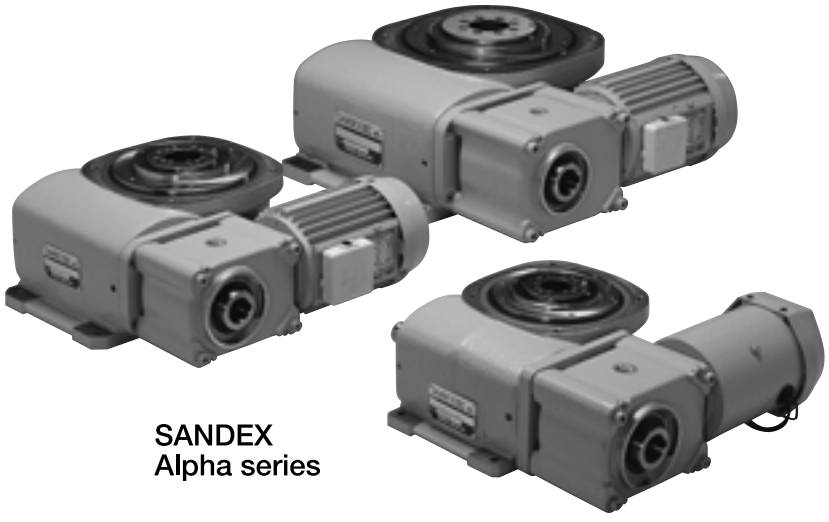
As the world's attention shifts toward global environmental issues, companies are placing strong emphasis on internationally recognized guidelines such as ISO14000. The trend is to raise productivity and efficiency without compromising conservation efforts.

Sankyo looks at this as an opportunity to build environment-friendly products with sound, perfected, and reliable motion characteristics. Introducing the Sandex α (Alpha) series, a new addition to our Sandex series, which has provided the industry with quality indexing equipment for 25 years.

The Sandex α series is a low profile indexing drive featuring a cost-effective geared motor. Notice these easy-to-integrate and ease-of-use features:

- ***Frequency inverter comes standard. No more clutch/brake components or other wearable parts***
- ***Rigid output surface for directly mounting dials.***

Ecology and economy -- two words synonymous with today's industrial sector. Two qualities you get when you integrate the Sandex α series into today's highly productive automation machines.



SANDEX
Alpha series

Description

The α series is an all-in-one indexing drive complete with geared motor mounted directly on the input shaft. The indexing motion comes from the same roller gear cam mechanism found in all of our Sandex products. As a result, you get ease of use and maintenance with all the qualities of a Sandex.

The α series comes with a frequency inverter allowing controlled starts andstops without a clutch/brake mechanism. By eliminating mechanical elements, we succeeded in reducing costs and maintenance.

Features

- Center distances available in seven standard sizes: 70, 90, 110, 150, 230, 330, and 450mm.
- Wide selection of stops: 2 to 32
- Rigid large flange surface
- Low profile housing
- Standard hollow fixed shaft inside output flange
- Can be mounted with up to 3 pairs of timing cams and sensors
- Optional Torque Limiters for ouptut shaft
- Standard hollow-center shaft-type geared motor with inverter controller.

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Note : Geared motor shown in optional special paint color.

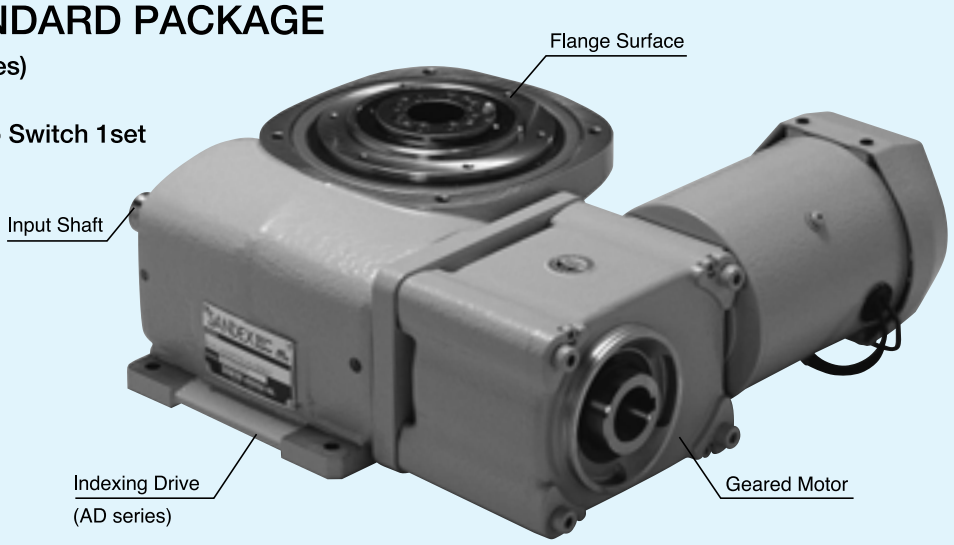
⚠ Units used in this document

This catalog uses SI units, particularly in the Specifications and Torque Capacity Table. It should be noted that moment of inertia is expressed at a fourth (1/4) of the GD^2 in the metric system.

α SERIES STANDARD PACKAGE

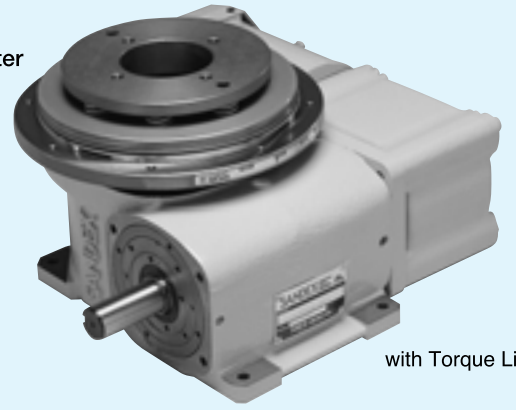
- Indexing Drive(AD series)
- Geared Motor
- Timing Cam and Photo Switch 1set

Timing Cam-Photo Switch

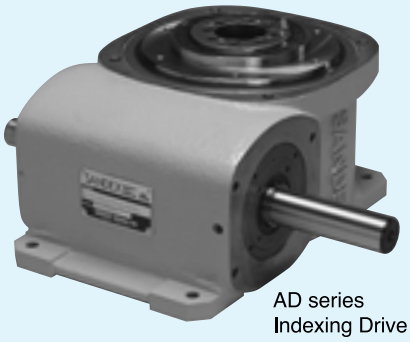


Option

- Torque Limiter
- Inverter



with Torque Limiter



AD series
Indexing Drive

Alpha Series (Standard Type)

1DWELL (7AD～45AD)

S \ θ	120°	150°	180°	210°	240°	270°	300°	330°
2								△
3						△	△	
4					△	◬		
5				△	◬	○		
6			◬	◬	○	○		
8		△	◬	○	○	○		
10	△	△	○	○	○	○		
12	◬	◬	○	○	○	○		
15	△	◬	○	○	○	○		
16	△	◬	○	○	○	○		

2DWELL (7AD～45AD)

S \ θ	120°	150°	180°	210°	240°	270°	300°	330°
16				○	○	○		
20			○	○	○	○		
24			○	○	○	○		
32			○	○	○	○		

S : Number of stops
θ : Index period
◬ SMS-3 Curve or SMCV-3 Curve
○ SMS-3 Curve only
△ SMCV-3 Curve only

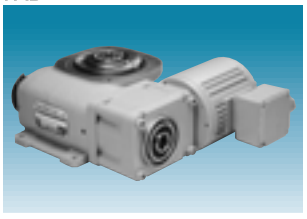
: Can not be produced
: Can be produced as special instruction

Note: 2 DWELL drives will two indexes and two stops per one ratation of camshaft. The total indexing period per one rotation of the camshaft can be found in the index period column.

Model	7AD	9AD	11AD	15AD	23AD	33AD	45AD
Geared motor power (kW)	0.1/0.2	0.2/0.4	0.4/0.75	0.75/1.5 (2.2)	2.2/3.7 (5.5)	5.5/7.5 (11)	11/15 (18)
Timing cam and photo switch	Can be installed up to 3 sets on input shaft						
Optional torque limiter	7TAD	9TAD	11TAD	15TAD	23TAD	—	—
Optional inverter	Be selected by us as requested						

The number of motor power in ( ) is a special instruction.

7AD



33AD

*Specifications and dimensions are subject to change whithout notice. Always double check before ordering.