Supporting FA with 2 Powerful Product lines

Direct Drive Actuator
The Direct Drive Actuator, pursuing ease of use

From palm-size to large types with large torques.
ABSODEX constructs conveyance, positioning and other various devices with simplicity.
The Direct Drive Servo Motor, boasting high performance

A rich lineup to meet demands of high precision, speediness, speed stability, etc.
One rank higher performance with the τDISC.

Laser processing machine
High speed indexer
Roll coater machine

**τDISC**

Manufacturing
There is a reason our products are easy to choose, easy to use

**AX Series**

**An abundance of interfaces**
Support for each FA fieldbus

- CC-Link
- DeviceNet™
- PROFINET®
- EtherCAT®
- Parallel I/O (NPN, PNP)

**Corresponding to global standards**
Compatible with global standards

- UL, C, CE, US LISTED
- TÜV Rheinland

**Drivers loaded with useful functions**
High response, small and light-weight, serial communication supported

- Output torque enables use of a shared controller (under 75 N·m/over 150 N·m)
- Divides main power supply and control voltage
- Monitoring through location information from serial communication, etc.

**Now easier to use AX Tools provided free of charge**

- Intuitive settings available
- Contributes to quick system launch

CC-Link is a registered trademark of Mitsubishi Electric Corporation. PROFINET® is a trademark of PROFINET User Organization. DeviceNet™ is a registered trademark of ODVA. EtherCAT® is a patented technology and registered trademark licensed in Germany by Beckhoff Automation GmbH.
Also available

<table>
<thead>
<tr>
<th>Series</th>
<th>Max. torque</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AX1000T</td>
<td>22 to 210 N·m</td>
<td>5 sizes, high precision, ideal for use in assembly/inspection</td>
</tr>
<tr>
<td>AX2000T</td>
<td>6 to 18 N·m</td>
<td>3 sizes, small diameter, ideal for high speed operations</td>
</tr>
<tr>
<td>AX4000T</td>
<td>9 to 1,000 N·m</td>
<td>8 sizes, large middle hole, ideal for use in assembly, conveyance, and indexing tables</td>
</tr>
<tr>
<td>AX6000M</td>
<td>1.2 to 3.0 N·m</td>
<td>2 sizes, compact/industry smallest, ideal for device miniaturization</td>
</tr>
<tr>
<td>AX7000X</td>
<td>22 to 45 N·m</td>
<td>2 sizes, high accuracy, ideal for use in alignment and accurate positioning</td>
</tr>
<tr>
<td>AX8000T</td>
<td>45 to 70 N·m</td>
<td>2 sizes, custom order product, corresponds to IP65</td>
</tr>
</tbody>
</table>

Small and easy to use  

**AX6000M Series**

Industry smallest and lightest!

*As of July, 2017, CKD research

- Height 47 mm
- Diameter 80 mm
- Weight 1.2 kg

Ideal in these applications
- Conveying minute workpieces.
- Θ correction of movable parts.

Corresponds to a wide range of needs  

**AX4000T Series**

- A lineup of 8 sizes, from 9 to 1000 N·m
- A wide-range lineup, even compatible with large inertial loads

Ideal in these applications
- P&P  
- Turntables  
- Inspection devices  
- Assembly machines
Industry's top-class
High Performance DD motor

ND-S Series

**High precision/high resolution**
- Positioning precision ............ ±15 arcsec (OP)
- Repeatability ......................... ±1 to ±2 arcsec
- Resolution ........................... 2,097,152 to 6,815,744 ppr (1 rotation ABS)

**An abundance of interfaces**
Motion network compatible

*EtherCAT® is a patented technology and registered trademark licensed in Germany by Beckhoff Automation GmbH.

**Ideal for devices that require speed stability and high accuracy**
- High speed index devices
- Laser processing machine
- Laminators
- Coaters
- FPD attaching device
- Screen printer
- All kinds of inspection equipment
- All kinds of processing machines

**Quick and easy operations**
High performance Servo drivers and system support tool full of functions
- Real-time servo control function
- Real-time oscilloscope function
- Frequency spectrum measuring function, etc.
**Lineup**

<table>
<thead>
<tr>
<th>Models</th>
<th>Torque Value</th>
<th>Outer Diameter</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND110-65/85</td>
<td>3.4 to 7.1 N·m</td>
<td>112 mm</td>
<td>66 to 86 mm</td>
</tr>
<tr>
<td>ND140-65/70/90</td>
<td>9.6 to 15 N·m</td>
<td>145 mm</td>
<td>71 to 98 mm</td>
</tr>
<tr>
<td>ND180-55/70/95</td>
<td>17 to 30 N·m</td>
<td>180 mm</td>
<td>58 to 94 mm</td>
</tr>
<tr>
<td>ND250-55/70/95</td>
<td>42 to 80 N·m</td>
<td>254 to 260 mm</td>
<td>58 to 98 mm</td>
</tr>
<tr>
<td>ND400-65/70/95/160</td>
<td>150 to 500 N·m</td>
<td>408 mm</td>
<td>73 to 160 mm</td>
</tr>
</tbody>
</table>

*ND110-65-FS, ND140-65-FS, ND180-55-FS, ND250-55-FS and ND400-65-FS are models that have shorter delivery times.*

**Other τDISC products**

- **High speed rotation**
  - **ND-s HS Series**
    - Rated speed: 11 to 15 rps
    - Ideal in these applications:
      - Die bonders
      - Sorters
      - Spin coaters
      - Spin washing machines

- **High rigidity**
  - **DD-S Series**
    - Positioning precision: ±10 arcsec (OP)
    - Repeatability: ±1 arcsec
    - Ideal in these applications:
      - Scribers
      - Roll coaters
      - FPD Inspection equipment
      - Wafer dicing devices
      - Precision processing/Measuring devices
      - Die casting machines

- **High response**
  - **HD-S Series**
    - For short tact times
    - Ideal in these applications:
      - High speed test handlers
      - Taping devices
      - Outer inspection equipment
      - Torque testing equipment
      - Vibration generator
Head office  2-8-24 Arima, Miyamae-ward, Kawasaki City, Kanagawa 216-0003, Japan  ...... TEL. 044 (855) 4311 (Representative) FAX. 044 (856) 4831

Sales office locations

Sales office locations

Overseas sales office locations

Overseas sales office locations

Overseas cooperation

Overseas cooperation

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