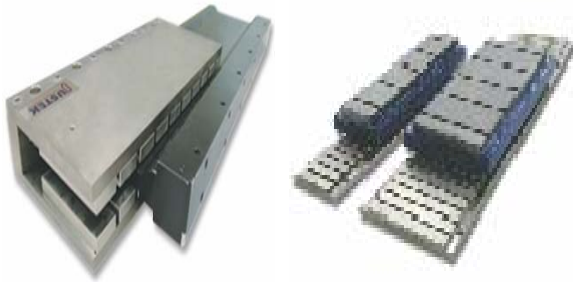


## Linear Motor Components

Coreless type

Iron-core type



## Linear Actuators



## Custom Linear Motors



### Coreless and Iron-core type

- Coreless (JTKL): 4 series, 11 products
- Iron-core (JTKC): 3 series, 6 products
- Force range: 30~4000N

- Small to large force line-up
- Compact, high force
- Patented design

- Manufacturing equipment for semiconductor and FPD
- Factory automation equipment

### Coreless and Iron-core type

- Working stroke: 100~6000mm
- Encoder resolution: 0.05~5 $\mu$ m
- Servo drivers JSMD series

- Rugged and compact structure
- Small to large force line-up
- Speed up to 5m/sec

- Manufacturing equipment for semiconductor and FPD
- Factory automation equipment

### Waterproof linear actuators

- Stroke: 20~6,000mm
- app: edge grinding equipment

### Ceramic air-bearing linear actuator

- Speed ripple 0.094% at 10mm/sec
- App: TFT inspection, scanning

### Miniature linear actuators

- Stroke: 20 x 150mm(25, 50, 100)
- App: optical inspection, alignment for PCB, BIO, cell phone

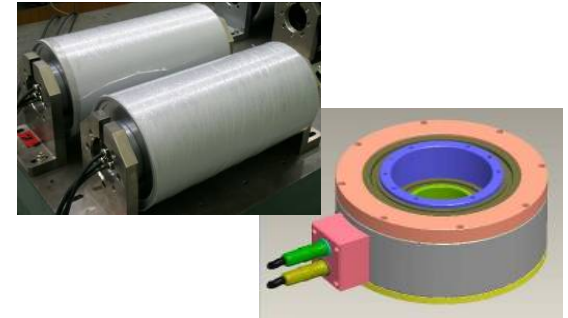
## Inner Rotor DD Motors



## Outer Rotor DD Motors



## Custom DD Motors



### JTR24 series

- Outer diameter: 240mm
- Torque: 30, 80, 130 Nm
- Resolution: 655,360~4,194,304 ppr
- NdFeB rare-earth permanent magnet
- High torque to volume ratio
- High Precision Positioning
- Small speed ripple
- Manufacturing equipment for LED, FPD, & semiconductors

### JTR15 series

- Outer diameter: 152mm
- Torque: 30, 50, 80 Nm
- Resolution: 655,360~4,194,304 ppr
- Anti-cog design
- Versatile programming (Angle, Direction, Speed)
- High precision indexing
- Direct component transfer
- Manufacturing equipment for LED, FPD, & semiconductors

### Knurling surface integrated rotary DD motors

- Dim: O.D 180mm x L 300mm
- Minimized settling time
- High duty
- App: printing M/Cs

### IP67 waterproof Rotary DD motors

- Dim: O.D 240mm x H 150mm
- Anti grinding water & cutting fluid
- App: TFT edge grinding equipment

## Mechanical Bearing Stages



## Air-bearing Stages



## Custom Stages



### Gantry, Hybrid, Cross type

- Linear motor driven
- Multi-head, multi-axis
- Z axis optional

- Standard & custom solutions
- Small to large area up to 2,300 x 5,000mm

- Manufacturing lines for LED, FPD, semiconductors

### Gantry, Hybrid, Cross type

- High accuracy, smooth motion
- 0.01 $\mu\text{m}$  Repeatability precision stage
- 0.5 $\mu\text{m}$  accuracy (after compensation)

- Standard and custom solutions
- Small to large area stage systems
- Optional Z axis

- Manufacturing lines for LED, FPD, semiconductors

### Vertical movement stages

- Working area : 350 x 450mm
- App : photo-mask inspection & printing M/Cs

### Double gantry structures

- Working area : 2,300 x 2,600mm
- App : automatic prober, inspection

### Align stages

- Dim : 400 x 400 x 95mm
- App : OLED align, inspection