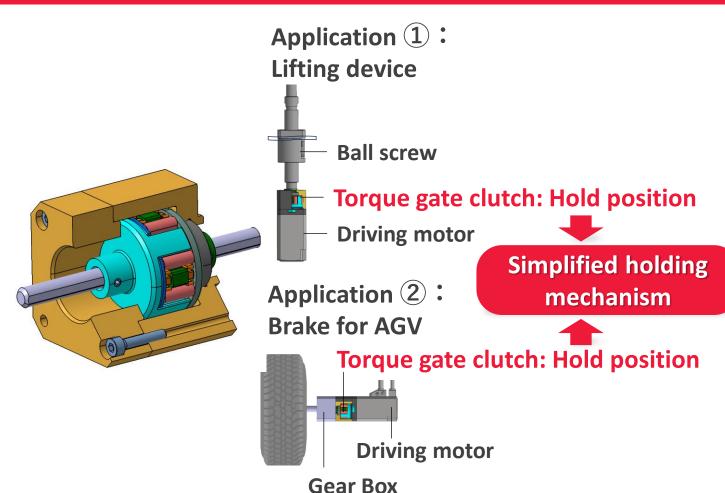
Torque Gate Clutch TM



Mechanical clutch. No power, No control needed.

New Products

Early Prototype



Key features

- ✓ Mechanical clutch. Simple, High capacity
- ✓ No control needed
- ✓ Electric power-free
- ✓ Small backlash engagement

Torque capacity : $0.5 \sim 10 \text{Nm}$

Size : Square 42~60mm

Why NSK?

Decades proven engineering excellence of One-Way Clutch, Now for Robotics.

Torque Gate Clutch TM





Function of Torque Gage Clutch:

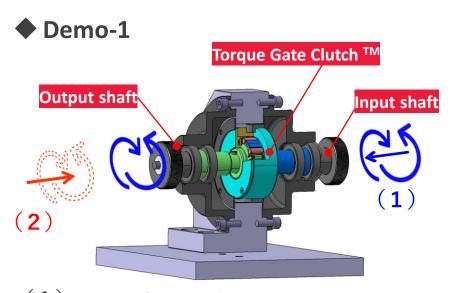
Transmit torque from Input shaft to Output shaft. Input torque from the output side is absorbed by the Torque-Gate Clutch, keeping the shaft stationary.

1High positional accuracy

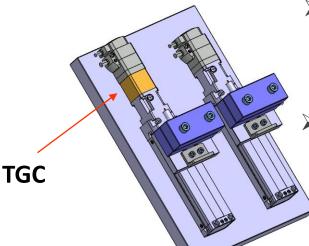
Small backlash engagement provides high positional accuracy of the shaft when reverse torque is applied.

2 Easily unlockable

Proprietary mechanism enables lock release via input shaft even under torque load on the output shaft."



◆ Demo-2



Without TGC:

Without a braking mechanism, the slider is prone to sudden drop.

With TGC:

TGC retains slider position without power or external control.

(1) Torque flow <input⇒output: Rotate both side>

(2) Torque flow < output⇒input: lock both side >