

# NSD Corporation

## Slip-ring, Rotary Encoder

### Slip-ring For CC-Link IE TSN "BAUMCOUPLER®"

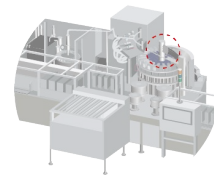
The compact size (Φ43mm) and lightweight slip-ring is compatible with the CC-Link IE TSN communication, and the power and data can be transmitted simultaneously.

#### Feature

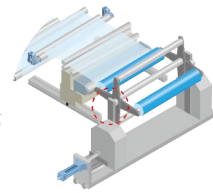
- Compact size (Φ43 × 112mm)
- Transmits the data via the CC-Link IE TSN communication!
- Supplies the power to the servo amplifier when BAUMCOUPLER® is combined with NSD slip-ring for the large current
- Permissible rotation speed: Max. 100r/min  
\*Please contact your NSD representative if the permissible rotation speed is needed 100r/min or more.

#### Application

- Monocrystalline pulling process (signal transmission of the Czochralski furnace)
- Electric power and signal transmission of the turret
- Electric power and signal transmission of the filling machine



Electric power and signal transmission of the filling machine



Electric power and signal transmission of the turret



Monocrystalline pulling process



Release  
in 2023

### Electro-Magnetic Rotary Encoder "ezABS0®"

ezABS0® is a brand new Rotary Encoder which adapts the electromagnetic induction theory. "Position detection" is available ezABS0® singly due to incorporating the converter system in the sensor.

#### Feature

1. Electromagnetic induction theory  
The detection part of the sensor has a long lifespan due to the non-contact structure.
2. No consumable parts  
No LED (light source), glass, capacitor, battery, and variable resistor inside the sensor
3. High resolution  
Binary code, multi-turn type sensor  
Max. 2,301,100,032 divisions (8,778-turn x 262,144)
4. High reliability  
Absolute position measurement with electromagnetic induction theory without using batteries

