



## Product

## Model HSB Backstopping Clutch

## Application

## Steel Mill Conveyor

## Highlights

- Comprised of an FSO clutch combined with an oil reservoir
- Torque capacity of 5,000 lb.ft. (6800 Nm)
- Formsprag exclusive PCE® sprag design
- Reservoir features a flush oil sight gauge

A major steel producer needed a backstopping clutch for use on an inclined conveyor that feeds coal into a coke oven at one of their Midwestern mills.

A Formsprag Model HSB 700 clutch, with a torque capacity of 5,000 lb.ft. (6800 Nm), was selected to meet the requirements of this application. HSB Series clutches are intended for use as backstops on the high speed shaft or intermediate shaft of a reducer, and as holdbacks on the head shaft of conveyors.

HSB units are comprised of standard FSO clutch with the addition of an oil reservoir. The oil reservoir is an aluminum casting with cooling fins. HSB models have a spacer replacing the seal at the reservoir end to permit free oil flow between the clutch and reservoir. The reservoir features a flush oil sight gauge and a combination breather and oil filter.

The FSO-700 clutch incorporated into the HBS 700 features PCE® sprags with Formchrome® and Formsprag "Free-action" retainers. Exclusive Formchrome sprags provide extra-long life, maximum wear resistance and lower maintenance costs. Ultra-hard Formchrome sprags are made by diffusing chromium into the surface of hardened high-carbon alloy steel to form a chromium-carbide alloy.

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