



## HIGHLIGHTS

- Custom sprag design
- Sprags feature patented Formchrome® surface hardening
- 300 lb.ft. (407 Nm) torque capacity
- 2,800 RPM max overrunning speed
- Inner race key

## Application Success Story



## HPI Indexing Clutches

### Speaker Grill Punch Press Feed Drives

#### PROBLEM

A manufacturer of automotive speaker grills needed a longer lasting replacement clutch solution for use on its punch presses that operates at 1,400 strokes/min. The clutches are installed on the material feed drives of the punch press machines to provide a uniform, incremental rotation of the feed rollers with each stroke of the press ram. The reciprocating motion of a gear rack is translated into specific and uniform motion by the clutch, advancing the correct amount of material for the next punch stroke.

The machine's original clutches were wearing out prematurely causing frequent periods of production downtime.

#### SOLUTION

Formsprag HPI indexing clutches, with a 92 million cycle life, were selected to meet the application challenge. HPI clutches are specially-designed to provide the maximum in dependable, uniform, long-life performance in medium- to heavy-duty indexing applications.

All HPI models contain PCE sprags with Formchrome® and Formsprag "Free-action" retainers. The clutches mount on a through-shaft, with the inner race driven by a key. The key fit was very tight for this particular application. HPI 400 models have a torque capacity of 300 lb.ft. (407 Nm) and a maximum 2,800 RPM overrunning speed and feature oil lubrication lip seals.

US (Application Assistance)

**1-800-348-0880** Press #2

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