

HEV·PHEV用D-CCM

Disconnect-Cone Clutch Module for HEV and PHEV



开发中·专利申请中
Under Development / Patent Pending

概念

Concept

对应电动油泵的离合器系统

Clutch module compatible with electric oil pumps



目标

Target

● 抑制离合器油压 (与传统产品相比可减少40%)

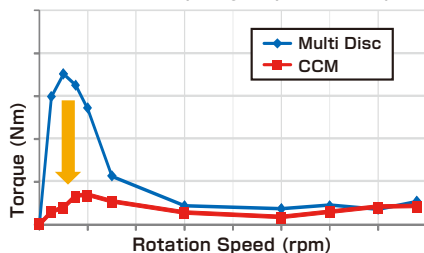
Suppression of clutch oil pressure
(40% reduction compared to conventional products)

- 电动油泵也能使用的低油压
Low oil pressure that can also be used with an electric oil pump
- 减少油泵损失
Oil pump loss reduction
- 使用薄, 轻, 平价的材料生产离合器零件
Uses thin, lightweight and inexpensive clutch parts

● 改善油耗/电费 (相比本公司老产品最大可减少80%)

Improved fuel efficiency and electricity costs
(up to 80% less compared to our company's products)

- 通过锥形离合器化来减小拖拽力矩
Drag torque reduction by using cone clutch



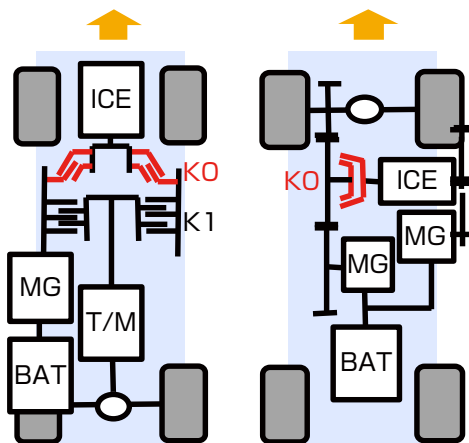
用途

Use

● HEV/PHEV 内燃机的动力切断 (K0)

ICE power disconnection
for HEV and PHEV

安装示例
Examples of installation

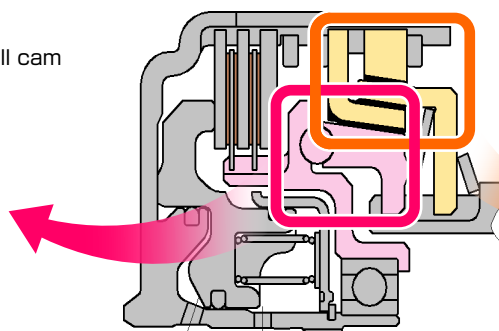
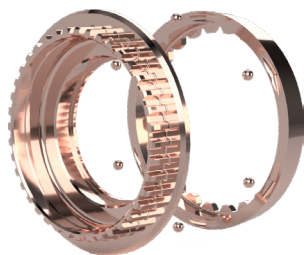


结构

Structure

● 通过滚珠凸轮提高负荷

The load is amplified by the ball cam



● 通过锥形离合器提高负荷

The load is amplified by the cone clutch



滚珠凸轮提高的负荷由锥形离合器
进一步增强
用提高的负荷 **大幅度降低油压**

The load amplified by the ball cam is
further amplified by the cone clutch.
The flood control is greatly reduced
by the amount that the load is amplified.

湿式离合器

Wet Clutch



AT·CVT·DCT用湿式离合器

Wet Clutch for AT · CVT · DCT

离合器片

Clutch Discs



湿式离合器是在各种自动变速箱中传递驱动力的摩擦功能部件。

离合器片表面贴有由DYNAX 自主开发的纸质摩擦材料。

"Wet clutches" are friction functional parts that transfer the driving power in various automatic transmissions and transfer cases. The friction material based on paper is bonded to the surface, and is developed in-house.

离合器用的钢片

Steel Plates



钢片与摩擦片的结合, 发挥离合器的作用。

我们根据DYNAX摩擦材料的特性, 生产多种规格的钢片。

In combination with clutch discs, the steel plate fulfils the function as a clutch. We manufacture steel plates of several specifications according to the characteristics of friction material.

混合动力汽车 (HEV) 用湿式离合器

Wet Clutch for HEV

HEV用离合器摩擦片

Clutch Disc for HEV



我们的离合器也应用于近年来一直在增加的混合动力汽车 (HEV) 。

例如, 从电机驱动切换到电机+发动机驱动时需要离合器切换。

Our clutch is also used in Hybrid Electric Vehicles that have been increasing in recent years. For example, the parts work to switch between "electric driving" and "electric driving with combustion engine".