

Want to increase reliability and simplify assembly? Start with the SKF One Way Clutch

Benefits

- Extend service life
- Improve reliability
- Cut assembly costs
- Reduce assembly times
- Simplify maintenance

Application

- Starter motor drive



A new way forward for one-way clutches

Conventional one-way clutch designs require several components, including the barrel (or body), barrel sheet metal, spring holder, spring support, springs, rollers and sheet metal plate. With the development of the fully integrated one-way clutch unit, SKF has broken with tradition, helping two wheeler manufacturers reduce not only assembly time, but also costs and weight in the process.

Offering several innovative features including a unique, patent-pending cage design that supports the spring, the SKF One Way Clutch combines the barrel, cage, rollers and springs in one complete unit. The result is a 10–20% weight reduction compared to conventional one-way clutches, with several additional benefits for both manufacturers and end-users, such as reduced assembly time and improved reliability.

Regardless of the component, system or model under development, today's designers are in a race to meet customer demand for higher performance at lower cost. One of the most effective ways to do so is to use integrated, high-performance units that combine several components into one "drop-in" unit.

Backed by expertise in bearings and units, sealing technologies, lubrication, mechatronics, and application development services, SKF is uniquely positioned to provide such integrated units. Designed by SKF engineers in the dedicated Two Wheeler Center of Excellence, the SKF One Way Clutch is one of a growing number of integrated solutions.



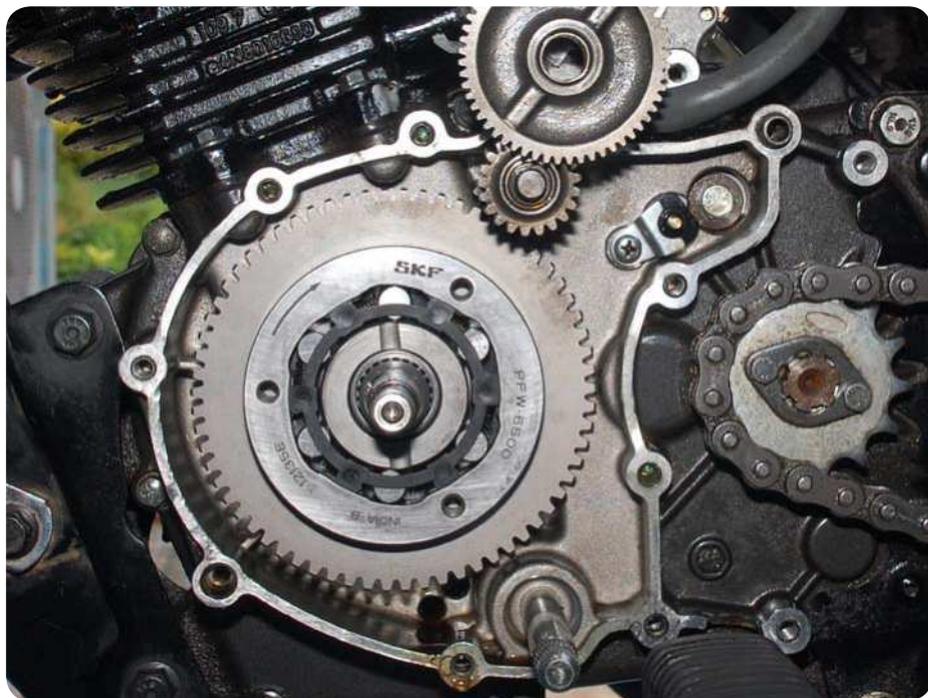
For more information about SKF products and solutions for the two and three wheeler industry, contact your SKF representative.



Proven, robust performance and design flexibility

Following more than 100 000 application endurance test cycles, plus component validation tests, the SKF One Way Clutch has proven extremely robust, helping to extend lifecycles as compared to conventional designs. The unit can also be retrofitted to any given application, using the existing mating components.

Manufacturers are experiencing the benefits of a solution that can handle two wheeler clutch conditions reliably and without the need for any changes to corresponding components. For end-users, the unit's robust performance and unitized design offers longer service life and simpler maintenance when it's required.



Conventional design	SKF design	Benefits of SKF design
Multiple components: <ul style="list-style-type: none"> • Barrel (body) • Barrel sheet metal • Spring holder • Spring support • Springs • Rollers • Sheet metal plate 	Integrated design: <ul style="list-style-type: none"> • Barrel • Cage • Rollers • Springs 	<ul style="list-style-type: none"> • Increased reliability • Easier assembly • Lower total cost of system • Faster assembly time • Simpler maintenance • Reduced administrative cost • Reduced warranty cost
Components shipped separately	One piece shipment	<ul style="list-style-type: none"> • Reduced logistics • Inventory carrying cost
Weight: 350–450 grams	Weight: 300–400 grams	<ul style="list-style-type: none"> • 10–20% weight reduction

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