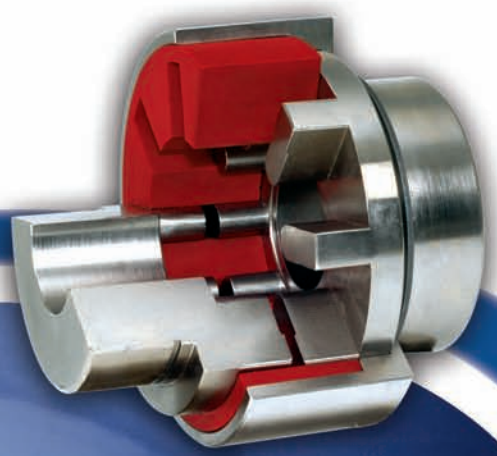
TIMKEN

Timken Quick-Flex® Couplings



Better Performance.
Less Maintenance.

Durability for the Long Haul

When your equipment operates in harsh environments, you need coupling products you can count on. Timken Quick-Flex® elastomeric couplings can withstand harsh conditions, yet need minimal maintenance. They're easy-to-install and require no lubrication. With a lifespan that can match that of your equipment, you can keep your overall cost of ownership competitively low.

Your Value

Timken Quick-Flex couplings can directly replace most coupling configurations, thanks to our design's versatility. Plus, you won't need large inventories of spare parts for couplings – the only part you'll need is a urethane insert that can be replaced in just a few minutes without removing the hubs.

Durability

There's no metal-to-metal contact with Timken Quick-Flex couplings, so you'll save money by avoiding damage to hubs or other metal components. For harsh environments, including wash-downs for food processing, we offer a stainless-steel version of each coupling.

More Uptime

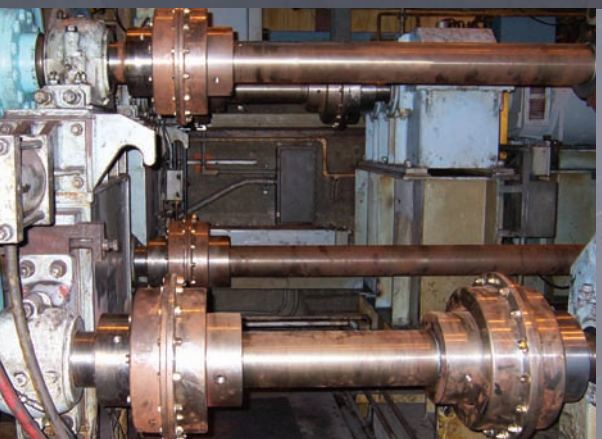
Your hubs and metal components can remain intact when you use Timken Quick-Flex couplings. Our design helps eliminate interference between coupling hubs that can damage your equipment. As needed, you can replace the urethane insert quickly and easily without removing the hubs.

Innovative Design

Our couplings withstand up to 2 degrees of misalignment, and they dampen vibration and shock loads in your equipment.

Reduced Inventory

The versatility of the Timken Quick-Flex design promotes standardization across your plant, reducing the need to stock multiple coupling styles and configurations.



Applications

- Motor to gearbox (low torque/high speed)
- Gearbox to driven equipment (high torque/low speed)
- Motors to pumps
- Any drive shaft to a driven shaft

Save Time and Money with Quick-Flex Couplings

- Solid and split covers are designed to accomodate higher speeds and increased torque.
- Inherently balanced from precision machining for high-speed applications.
- Design dampens torsional vibration and shock to help extend life of the coupling and surrounding components.
- Timken inserts help reduce downtime and replacement costs, because inserts can be replaced without moving or disassembling the driving or driven equipment.

Solutions for Your Needs

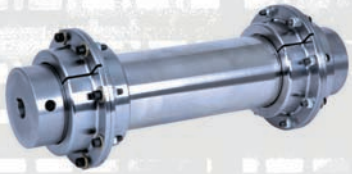
Whatever your application demands, you'll find a wide range of Timken couplings to suit your needs. Choose from multiple insert and cover configurations that withstand some of the most extreme environments.

- Twelve families ranging from bore sizes of 9.4 mm to 285 mm, 0.37 in. to 11.25 in.
- Designed for continuous torque levels from 0.043 kNm to 188.8 kNm, 377 in.-lbs. to 1,670,826 in.-lbs.
- Designed for peak torque levels from 0.085 kNm to 377.5 kNm, 754 in.-lbs. to 3,341,562 in.-lbs.
- Couplings accept shaft misalignment, up to 2 degrees.
- Split cover options help resist axial separating force under high torque.
- Standard and double-ended spacer couplings available for shaft separations of 25.4 mm to 3,048 mm, 1 in. to 120 in., for increased application acceptance.
- Four bore options available to meet customers' needs; 1) Bored, keyed and set screws style – clearance and interference fit; 2) Bushing style; 3) Splined style; and 4) Mill motor style.
- Four insert choices for varying torque needs and temperature ranges up to 177° C , 350° F.

Choose Quick-Flex Couplings

Standard Couplings
Shown with high-speed cover

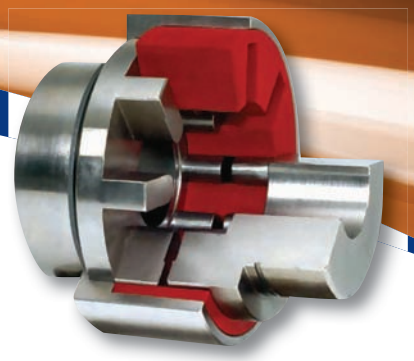
Single-Ended Spacer Couplings
Shown with low-speed split cover



Double-Ended Spacer Couplings
Shown with high-speed split cover

Splined Hub Couplings
Shown with high-performance split cover

Quick-Flex Comparison	Quick-Flex	Jaw Coupling	Grid Coupling	Gear Coupling	Chain Coupling	Tire Coupling
Easy to Replace Without Moving Hubs			•		•	•
High and Low Torque Ratings				•		
High-Speed Capability				•		
Low Lifetime Cost						
Hubs Not Damaged When Urethane Inserts Need to be Replaced						•
No Lubrication Needed		•				•
No Hub Teeth Wear						
Cushioned Shock		•	•			•
Compact Design				•	•	



Powerful Connections

Timken Quick-Flex Couplings transmit higher levels of torque in most cases, compared with the competitive averaged gear coupling ratings. Plus, the elastomeric coupling never needs lubrication because there's no metal-to-metal contact.

Quick-Flex Series	Quick-Flex Couplings Maximum Torque[1]	Quick-Flex Couplings Maximum Speed[1]	Gear Coupling Size	Gear Coupling Maximum Torque[2]	Torque Improvement
	kNm in.-lbs.	r/min		kNm in.-lbs.	
QF25	1.4 12,449	7000	1	1.1 9,360	33%
QF100	6.1 53,642	4800	2	3.7 33,094	62%
QF250	13.4 118,930	3800	3	11.1 98,152	21%
QF500	24.8 219,429	3400	4	27.9 246,537	0%
QF1890	62.5 553,982	2800	5	52.9 468,322	18%
QF3150	98.3 871,139	2000	6	87.1 770,471	13%
QF10260	188.6 1,670,826	1200	8	172.6 1,527,375	9%

(1) Based on Timken Quick-Flex coupling with split cover and black elastomeric insert
(2) Average maximum torque rating from competitive gear couplings

Quick-Flex Inserts

Standard Red Insert

Relatively soft urethane excels in vibrational dampening and cushioning of shock loads.

Use in reversing applications or applications with quick starting and stopping of high-inertial loads.

High Torque Blue Insert

Relatively stiff urethane provides moderate flexibility and vibrational dampening.

Use in applications with moderate to high torque, such as gear, grid or chain-style couplings.

High Temperature White Insert

Withstands application temperatures up to 177° C, 350° F. Provides torque capabilities similar to the Quick-Flex blue insert.

Highest Torque Black Insert

Stiffest urethane.

Use in applications with very high torque, such as gear-style couplings.

Industrial Sectors:

- Steel and Metal Mills
- Aggregate
- Mining
- Sawmills
- Industrial Processing
- Pulp and Paper

Find out more

about our commitment to quality by visiting www.timken.com, keyword "Quality."

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance steel as well as mechanical components, including bearings, gears, chain and related mechanical power transmission products and services.

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