



LIPE CLUTCH

DRIVEN BY
INNOVATION DESIGN TECHNOLOGY

...LIPE FOR LIFE™

The Company

Setco, incorporated in May 1982, is a diversified engineering products company, listed on the BSE Sensex. Setco is the largest manufacturer of premium quality Lipe clutches for heavy and medium commercial vehicles in India. The company employs more than 950 people globally. It is a Tier 1 supplier of clutches to all major Indian commercial vehicle manufacturers with a customer base inclusive of prominent names such as Tata motors, Ashok Leyland, Daimler India and Eicher Motors among others.

Setco has strategic global footprints with 4 manufacturing facilities globally, 2 in India, and 1 each in UK and USA, with its corporate base in Mumbai, India. Setco UK is also the R&D hub for Setco's clutch products and the technology provider to the group globally. Setco USA is the R&D hub for the hydraulics products. Setco additionally manufactures three other components: Precision Components, Pressings, Hydraulics. It is also an OEM supplier to other major OEMs globally.

For more information, please visit: www.setcoauto.com



LIPE CLUTCH

GLOBAL FOOTPRINT



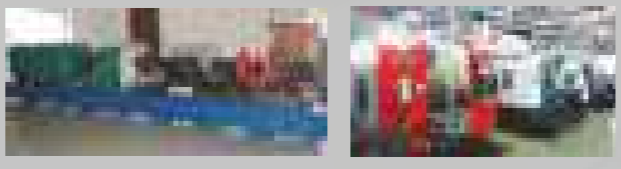
...LIPE FOR LIFE™

Asia Pacific	Africa	Europe	Latin America	Middle East	North America	SAARC			
Australia	Egypt	Albania	Denmark	Latvia	Slovakia	Bolivia	UAE	Canada	Bangladesh
China	Ghana	Austria	Estonia	Lithuania	Slovenia	Equador	Iran	USA	Bhutan
Indonesia	Kenya	Belarus	Finland	Malta	Spain	Peru	Israel		Nepal
Korea	Mauritius	Bosnia	France	Norway	Sweden		Kuwait		Srilanka
Malaysia	Morocco	Bulgaria	Greece	Poland	Switzerland		Oman		
New Zealand	Nigeria	Croatia	Hungary	Portugal	Turkey		Qatar		
Seychelles	South Africa	Cyprus	Ireland	Russia	UK		Saudi		
Singapore	Tanzania	Czech Republic	Italy	Serbia	Ukraine				

About Research and development Centre



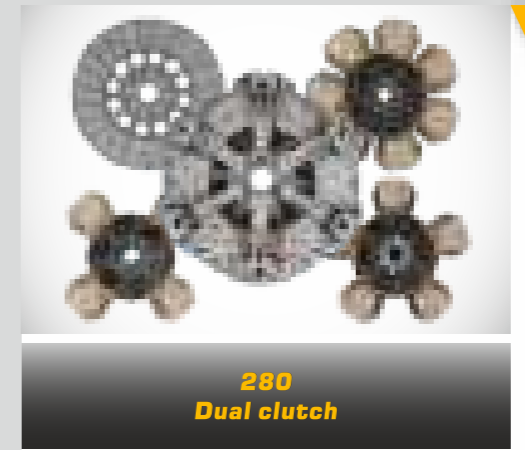
Our state of the art R&D centre has been approved by the Department of Scientific and Industrial Research – Government of India. At Setco Automotive, our R&D investment is part of a strategic framework with one simple motive – delivery of global standards. It helps us develop better products faster. By better products, we mean those that fit the bill in every way – superior performance, longer life and greater value-for-money.



Our R&D facilities in India and UK are poised to play a key role in our national and global plans. They help us cement our position as a top domestic player with a wider product range and a smaller time-to-market cycle. Key capabilities at our R&D facilities include cutting-edge software and tools in drafting, 3D modeling, product lifecycle management, project management, clutch testing and analysis.

Corporate Office

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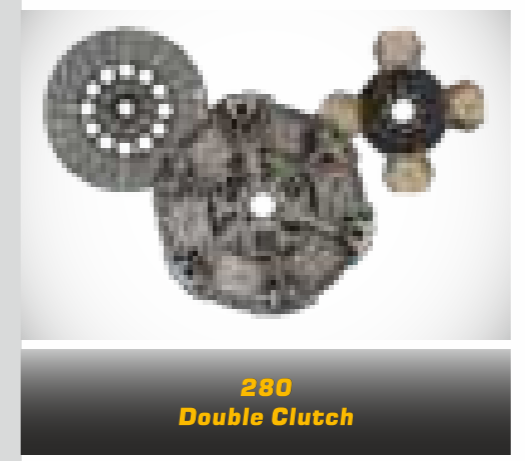
PRODUCT APPLICATIONS

Various combinations of:

- clamp loads to suit various Tractor HP
- disc configuratuion for various tractor applications like 4P, 5P, 7P, Organic discs.

PRODUCT FEATURES

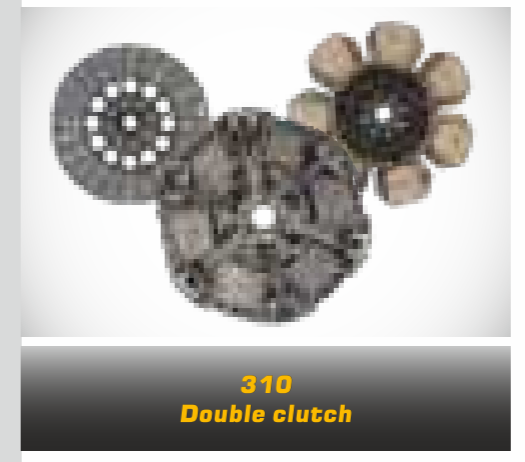
- Cast cover - more durability
- Twin disc - separate for main and PTO operations
- Diaphragm clutch - more service life and lower pedal effort
- Cushioned discs for main operation - better driveability - low driver fatigue
- Cerametallic main disc (optional in PTO) - to give extended clutch life



Various combinations of:

- clamp loads to suit various Tractor HP
- disc configuratuion for various tractor applications like 4P, 5P, 7P, Organic discs
- Independednt PTO operation

- Cast cover - more durability
- Twin disc - separate for main and PTO operations
- Diaphragm clutch - more service life and lower pedal effort
- Cushioned discs for main operation - better driveability - low driver fatigue
- Cerametallic main disc (optional in PTO) - to give extended clutch life



- Suiatable for higher HP tractors. Independent PTO operation

- Cast cover - more durability
- Twin disc - separate for main and PTO operations
- Diaphragm clutch - more service life and lower pedal effort
- Cushioned discs for main operation - better driveability - low driver fatigue
- Cerametallic main disc (optional in PTO) - to give extended clutch life



Various combinations of:

- clamp loads to suit various Tractor HP
- disc configuratuion for various tractor applications like 4P, 5P & Organic discs (Dampened and rigid)

- Diaphragm clutch - more service life and lower pedal effort
- Cushioned discs for main operation - better driveability - low driver fatigue
- Cerametallic main disc (optional in PTO) - to give extended clutch life





170 MM
SINGLE Diaphragm Spring

PRODUCT APPLICATIONS

- Small commercial vehicle upto 1T
- Engine Torque - 40 Nm
- City & short haul

PRODUCT FEATURES

Cover Assembly:

- Light weight as pressed steel cover.
- Diaphragm spring design.

Disc Assembly:

- Cushioned organic disc.
- Pre-damper design.
- Lower stiffness of damper spring.



280 MM
SINGLE Diaphragm Spring

- Small commercial vehicle upto 1.7T
- Engine Torque - 250 Nm
- City & short haul
- Goods and passenger

Cover Assembly:

- Light weight as pressed steel cover.
- Diaphragm spring design.

Disc Assembly:

- Cushioned organic disc.
- Pre-damper design.
- Lower stiffness of damper spring.



310 MM DIA
'LIPE EuroStar' Clutch Assembly

- Engine Torque - 400 Nm to 430 Nm
- Tonnage – 10T to 12T
- Goods and Passenger application
- City and long haul applications

Cover Assembly:

- Light weight pressed steel cover.
- Variants in clamp force.

Disc Assembly:

- Cushioned organic disc.
- Lower stiffness of damper spring.



330 MM DIA
'LIPE TorqueStar' Clutch Assembly

- Vehicles up to 16 tonnes
- Engines Torque upto 450 NM
- Goods – Long haul, Tippers, Short haul & trailer applications
- Passenger – Inter City & Intra City applications

Cover Assembly:

- Lightweight Pressed Steel Cover and Cast Cover.
- Direct pressure coil spring design.
- Easy to install.
- Needle roller bearing to ensures smooth working of clutch.

Disc Assembly:

- Ceramic and Cushioned Disc options.
- Use of collector ring ensures flat surface for release bearing.



15" 380 MM
PULL TYPE 'LIPE TorqueStar'
Twin Clutch Assembly

PRODUCT APPLICATIONS

- Vehicles From 270BHP
- Engines Torque Rating
- 630lbs ft (875nm) to 1800lbs ft (2445nm)

PRODUCT FEATURES

Cover Assembly:

- S.A.E. 2 Bell Housing or Larger.
- Inertia for complete assembly is 4839 lbs/ in (1.42kgm2).

Disc Assembly:

- Wide Range of disc designs to suit Various Applications.



352 MM DIA
'LIPE TorqueStar' Clutch Assembly

- Engine Torque - 500 Nm to 650 Nm
- Tonnage – 25T to 40T
- Goods - Long haul, construction, Trailer applications
- Passenger : Inter city and Intra city applications

Cover Assembly:

- Light weight pressed steel cover.
- Direct pressure coil spring design.
- Variants in clamp force.
- Easy installation.
- Needle roller bearing for friction free movement.

Disc Assembly:

- Option for Ceramic, Cushion ceramic and Cushioned organic discs.



362 MM DIA
'LIPE EuroStar' Clutch Assembly

- Vehicles from 7.5 to 16 tonnes
- Engines torque rating from 550 to 675 Nm
- Goods : Long haul Multi Axle, Tippers & trailers
- Passenger : medium capacity buses

Cover Assembly:

- Lightweight Pressed Steel Cover.
- Unique design for fulcrum.

Disc Assembly:

- Organic Clutch Disc.
- Lower stiffness of damper spring.
- Pre-dampening design.



380 MM DIA
'LIPE TorqueStar' Clutch Assembly

- Vehicles up to 49 tonnes
- Engines Torque upto 850 Nm
- Goods – Multi Axle trailers, Long haul & Tippers
- Passenger- Intra City Bus

Cover Assembly:

- SG Cast Cover robust design.
- Direct pressure coil spring design.
- Collector ring ensures flat surface for release bearing.
- Adjustment free clutch.
- Needle rollers in the cover assembly ensures smooth working of clutch.
- Unique lever design with higher lever ratio.

Disc Assembly:

- Rigid Ceramic, Cushioned Organic and Cushioned Ceramic discs options.



15.5" DIA
'LIPE EagleStar' Series

PRODUCT APPLICATIONS

- Complete range for US class 6-8 trucks
- Heavy Duty application

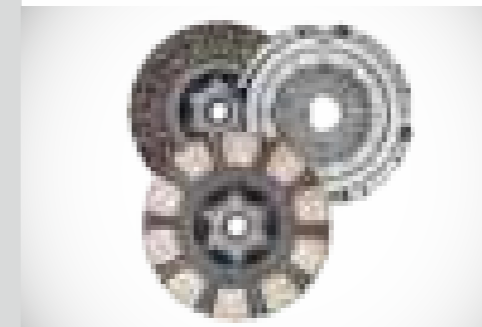
PRODUCT FEATURES

Cover Assembly:

- High strength Cast Cover.
- Wide Range of clamp force variants.
- Special quality Angular Springs

Disc Assembly:

- Twin disc design.
- Miba Ceramic friction material.
- Wear adjusting clutch mechanism.
- Wide range of dampening torque variants.



395 MM DIA
'LIPE EuroStar' Clutch Assembly

- Vehicles From 25 Tonnes
- Engines Torque Rating upto 1100 Nm
- Goods- Multiaxle, Tipper and Trailer applications
- Passenger – Long Haul Multiaxle Luxury buses

Cover Assembly:

- Lightweight Pressed Steel Cover.
- Imported Diaphragm Spring for better life.
- Variants in clamp force.

Disc Assembly:

- Organic and Ceramic Clutch Disc to suit various applications.
- Pre-dampening design.
- Lower stiffness of damper spring.
- Variants in dampening suitable to vehicle.



400 MM DIA
'LIPE EuroStar'
Twin Plate Clutch Assembly

- Vehicles From 40 Tonnes
- Engines Torque Rating up to 3000 Nm
- Goods : High end Multiaxle Tippers

Cover Assembly:

- Lightweight Pressed Steel Cover.
- Imported Diaphragm Spring Design.
- Centralising system in Intermediate Plate Centralising system.
- Large Heat Sink in Intermediate Plate and Pressure Plate for extended Disc Life.

Disc Assembly:

- Cushioned disc.
- Lower stiffness of damper spring.
- Variants in dampening suitable to vehicle
- Pre-dampening design.



430 MM DIA
'LIPE EuroStar' Clutch Assembly

- Vehicles From 30 Tonnes
- Engines Torque Rating From 900 Nm to 1800 Nm
- Goods : Multiaxle Trailers and Multiaxle tippers
- Passenger : Long Haul Multiaxle Luxury buses

Cover Assembly:

- Lightweight Pressed Steel Cover.
- Release Bearing Taper Snap-in or Parallel Fitment.
- Imported Diaphragm Spring.
- Thicker Pressure Plate.

Disc Assembly:

- Cushioned Disc.
- Lower stiffness of damper spring.
- Variants in dampening suitable to vehicle.
- Pre-dampening design.