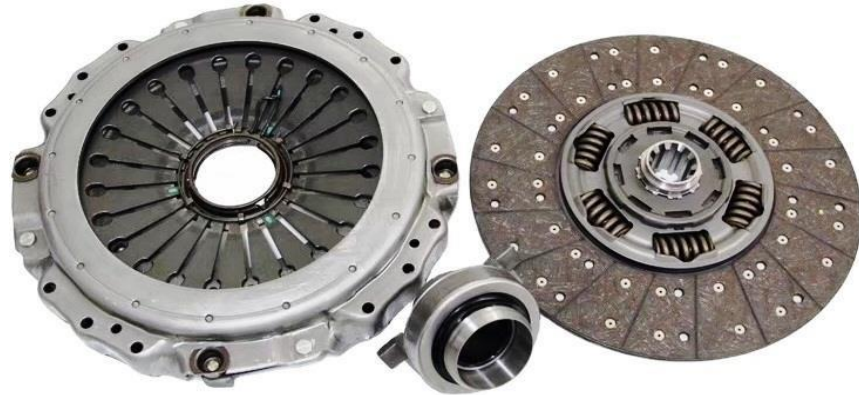


# GCPA PRIVATE LIMITED

PASSENGER CLUTCH  
HEAVY DUTY CLUTCH  
AGRICULTURAL CLUTCH  
CLUTCH COMPONENTS



**S.N.-5A, R.K. ESTATE, NEAR-SARURPUR INDUSTRIAL  
AREA, BALLABARH-121004, FARIDABAD-HARYANA**



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 500Nm to 650Nm
- Rated Torque : 132Kgm
- Vehicle up to 20 Tonnes
- Valeo F510 Friction Lining
- Hub spline 1.75" X10
- Good – Long haul, construction, trailer applications
- Passenger – Inter city applications

## 352mm (14") Clutch Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material.</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Smooth running due to less vibration</li> <li>- Reduce wear &amp; Tear of clutch gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	SK/SFC 1616 - BSIII, SAK 1212, SE/ SK 1616 BSIII, LPT 2513 BSIII, LPT 2518 (697), LPT 1616, LPO 1512,	G-T352-F510	581225200101 2752 2540 0105 ID 206097	TATA GB-60/G600
EICHER	TERRA 16, 30.25, 33.25, 35.31			



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 500Nm to 650Nm
- Vehicle up to 20Tonnes
- Clamp Load 1320Kg
- Mounting hole PCD 393.7mm
- Good – Long haul, construction, trailer applications
- Passenger – Inter city applications
- Formed Sheet metal lever much stronger and lighter than forged lever.

## 352mm (14") Conventional Cover Assembly

Special Feature	Advantage/ Benefit
Push type Clutch Cover Assembly	<ul style="list-style-type: none"> <li>- It is self-adjusting</li> <li>- No Frequent Release bearing travel adjustment required</li> <li>- A "Fit &amp; Forget" design.</li> <li>- Sheet metal cover so lighter in weight</li> <li>- Due to sheet metal cover less inertia &amp; less load on gearbox</li> <li>- Heat dissipation is faster due to sheet metal cover</li> </ul>
Coil Spring Design	<ul style="list-style-type: none"> <li>- Easy to repair &amp; overhaul</li> <li>- Low repair costs</li> <li>- Most ideal &amp; favorite of Indian market</li> </ul>
Collector – Ring provided	<ul style="list-style-type: none"> <li>- Release bearing contact with flat collector ring prevents grooving of the release bearing.</li> <li>- It also increases release bearing life.</li> </ul>
Unique Sheet metal release levers	<ul style="list-style-type: none"> <li>- Lighter but stronger design</li> <li>- Results in low pedal effort &amp; longer life.</li> </ul>
Release levers, Eye bolts supported on needle roller bearings.	<ul style="list-style-type: none"> <li>- Less pedal effort</li> <li>- Longer life of clutch disc assembly.</li> <li>- It results in smooth &amp; easy clutch disengagement</li> </ul>
Cover designs with large openings	<ul style="list-style-type: none"> <li>- Better air circulation in operation</li> <li>- Thus giving adequate cooling to the clutch components</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- It results in low vibrations &amp; smooth running</li> <li>- Increases life of clutch &amp; gearbox</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	LPK 1615TC, 1613, ULTRA 1518, BS-IV	G-T352-CCA-PT	581225400101 843108	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 500Nm to 650Nm
- Rated torque 132kgm
- Vehicle up to 20 Tonnes
- MIBA friction button thickness 4.5mm & 5.8mm
- Hub spline 1.5" X10 (AL GBS 50 Gearbox)
- Hub spline 1.75" X10 (TATA/EICHER GBS 60 Gearbox)
- Good – Long haul, construction, trailer applications
- Passenger – Inter city applications

Ceramic material can withstand significantly higher temperatures than organic clutch plates, making them suitable for high-power applications with frequent hard acceleration and heavy towing

## 352mm (14") Ceramic Clutch Disc Assembly

Special Feature	Advantage/ Benefit
Ceramic buttons have high co-efficient of friction.	<ul style="list-style-type: none"> <li>- Ceramic clutches can withstand higher temperatures compared to organic or metallic clutches. This makes them suitable for high-performance applications where heat generation is significant, such as racing or heavy-duty driving</li> <li>- Ceramic materials offer excellent friction properties, providing a consistent and efficient grip between the clutch surfaces. This can contribute to better performance and smoother engagement</li> </ul>
Fan/Paddle type construction of clutch disc	<ul style="list-style-type: none"> <li>- Lighter in weight</li> <li>- Better heat dissipation hence Longer life</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Smooth running due to less vibration</li> <li>- Reduce wear &amp; Tear of clutch gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	2515,2516, 3015, 3516, 4018 (BSII)	G-T352-BD G-T353-BD G-AL352-BD	2752 2520 0106 ID 206096	TATA GB-60/G600
EICHER	30.25,33.25,35.31			



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 500Nm to 650Nm
- Vehicle up to 20 Tonnes
- Clamp Load 1320 Kg
- Mounting hole PCD 393.7mm
- Good – Long haul, construction, trailer applications
- Passenger – Inter city applications
- Formed Sheet metal lever much stronger and lighter than forged lever.

## 352mm (14") Conventional Cover Assembly

Special Feature	Advantage/ Benefit
Pull type Clutch Cover assembly	<ul style="list-style-type: none"> <li>- Less Pedal effort because of better lever ratio</li> <li>- Longer Release Bearing Life</li> </ul>
Coil Spring Design	<ul style="list-style-type: none"> <li>- Easy to repair &amp; overhaul</li> <li>- Low repair costs</li> <li>- Most ideal &amp; favorite of Indian market</li> </ul>
Unique Wear Indicator and Adjustment Mechanism	<ul style="list-style-type: none"> <li>- Get indication of serviceable life of clutch disc</li> <li>- Can be Adjust to get maximum life from clutch.</li> </ul>
Unique Sheet metal release levers	<ul style="list-style-type: none"> <li>- Lighter but stronger design</li> <li>- Results in low pedal effort &amp; longer life.</li> </ul>
Release levers, Eye bolts supported on needle roller bearings.	<ul style="list-style-type: none"> <li>- Less pedal effort</li> <li>- Longer life of cover assembly.</li> <li>- It results in smooth &amp; easy clutch disengagement</li> </ul>
Cover designs with large openings	<ul style="list-style-type: none"> <li>- Better air circulation in operation</li> <li>- Thus giving adequate cooling to the clutch components</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- It results in low vibrations &amp; smooth running</li> <li>- Increases life of clutch &amp; gearbox</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	2515,2516,3015,3516,4018 BS-II	G-T353-CCA	275225400105 ID 206097	GB60
EICHER	30.25,33.25,35.31			





### SPECIFICATIONS & COMPETITIVE EDGE

- Engine torque rating from 520Nm to 675Nm
- Vehicles from 7.5 to 16 tonnes
- Valeo F510 Friction Lining
- Hub spline 1.75" X 10
- Lower stiffness of damper spring
- Pre – Damping design
- Good: Long haul Multi Axle tripper & trailers
- Passenger: Medium capacity busses

## 362mm (14.5") M & M Clutch Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Mahindra	Mahindra Furio	G-E3624-CD	3360050100 6363062090 L-03036-1037-01	
AL	12M, Viking, 1620H, 1920H, Cheetah, Viking CNG			from Oct 2022
Eicher	Pro 3016, Pro 5016			from Oct'2020



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine torque rating from 520Nm to 675Nm
- Vehicles from 7.5 to 16 tonnes
- Valeo F510 Friction Lining
- Hub spline 40X36X18
- Lower stiffness of damper spring
- Pre – Damping design
- Good: Long haul Multi Axle tripper & trailers
- Passenger: Medium capacity busses

## 362mm (14.5") Benz Clutch Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
BHARAT BENZ	Daimler-1217C	G-B3622-CD	3360045100 L-03036-1010-03	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine torque rating from 520Nm to 675Nm
- Vehicle from 7.5 to 16 tonnes
- Mounting hole pcd 375mm
- Good: Long haul Multi Axle tripper & trailers
- Passenger: Medium capacity busses

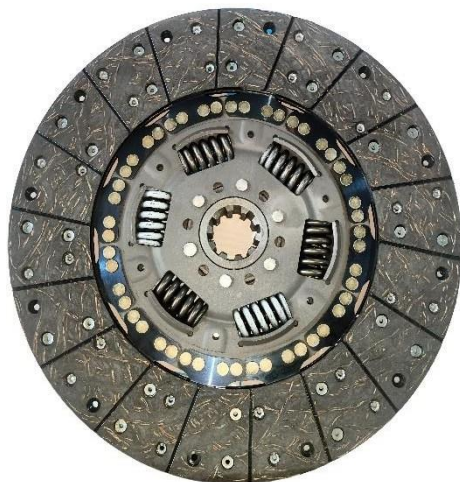
## 362mm (14.5") M & M Diaphragm Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, etc</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Mahindra	Mahindra Furio	G-B3621-DCA G-E3623-DCA	3400 710 008 1360227100 L-01H36-0G13-00 1360238100 3482000462	
BHARAT BENZ	Daimler-1217C CA, Pro 3016, Pro 5016			
AL	12M, Viking, 1620H, 1920H, Cheetah, Viking CNG			from Oct 2022
Eicher	Pro 3016, Pro 5016			from Oct'2020





### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 750 Nm
- Rated Torque 150Kgm
- Vehicles up to 20 tonnes
- Valeo F510 Friction Lining
- Hub spline 1.5"X10
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus
- Damper springs are not preloaded. Less structural damage, longer life of clutch disc.

### 380mm (15') AL Clutch Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AL	1618, 2518, 12M Bus BS-VI	G-AL3806-AF	B-1M04902	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engines Torque rating up to 900 Nm
- Vehicle from to 23 Tonnes
- Clamping Load 1910 Kg
- Mounting hole PCD 410 mm
- Stronger Diaphragm spring with 18 fingers
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses

## 380mm(15") Diaphragm Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	BS-VI	G-AL382-DCA	1380223100	Serviceable

## 380mm (15") Organic Clutch Disc Assembly



Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines through hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 850Nm
- Rated Torque 157Kgm
- Vehicles up to 49 tonnes
- Valeo F510 Friction Lining
- Hub Spline 1.75"X10
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AMW	2518HL/TP/TM, 3118 HL/TP/TM, 3518TR, 4018TR, 4923TR	G-T380-F510	2724 2520 0134	Tata GB-75/Eaton 6209, 9306, 11109, Eicher ET 85, ALGB 940, ZF 6S-850, ZF1110
TATA	LPT/LPK2518, LPS 3118/3518/4018, LPO 1618 /1623, LPS 4923, LPT2521, LPK 1623, LPT/LPK2523, Prima M0, LPO 1623			
AL	2523/4018/4923-with ZF Transmission 2518/3118			
EICHER	9 Speed and 6S HD gear Box			



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 850Nm
  - Vehicles up to 49 tonnes
  - Rated Torque 159Kgm
  - MIBA friction button thickness 4.5mm to 5.80mm each
  - Hub Spline 1.75" X10(TATA, AMW, EICHER) and 1.5"X10(AL)
  - Good – Multi Axle trailers, Long haul & Trippers
  - Passenger – Intra City, Bus
- Ceramic material can withstand significantly higher temperatures than organic clutch plates, making them suitable for high-power applications with frequent hard acceleration and heavy towing

## 380mm (15") Ceramic Clutch Disc Assembly

Special Feature	Advantages / Benefits
Ceramic buttons have high coefficient of friction.	<ul style="list-style-type: none"> <li>- Ceramic clutches can withstand higher temperatures compared to organic or metallic clutches. This makes them suitable for high-performance applications where heat generation is significant, such as racing or heavy-duty driving</li> <li>- Ceramic materials offer excellent friction properties, providing a consistent and efficient grip between the clutch surfaces. This can contribute to better performance and smoother engagement</li> </ul>
Fan/Paddle type construction of clutch disc	<ul style="list-style-type: none"> <li>- Lighter in weight</li> <li>- Better heat dissipation hence Longer life</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages, Longer life of disc, Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C Temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AMW	2518HL, TP/TM, 3118 HLTP, TM, 3518TR, 4018TR, 4923TR	G-AL380-BD G-AM381-BD G-AL381-BD G-AL383-BD	292 02 0006 3380214100 ID 209718 B1304301	Tata GB-75/Eaton 6209, 9306, 11109, ALGB 940, ZF 6S-850, ZF1110
TATA	LPT/LPK2518, LPS 3118/3518/4018, LPO 1618 /1623, LPS 4923, LPT2521, LPK 1623, LPT/LPK2523, Prima M0, LPO 1623			
AL	2523/4018/4923-with ZF Transmission 2518/3118			
EICHER	9 Speed and 6S HD gear Box, Teraa 25, Eicher ET 85,			



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 850Nm
- Vehicle up to 49 Tonnes
- Clamp load 1810Kg
- Mounting hole PCD 410mm
- Formed Sheet metal lever much stronger and lighter than forged lever
- Collector ring enhances bearing life
- Use of needle roller bearing than bushes
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

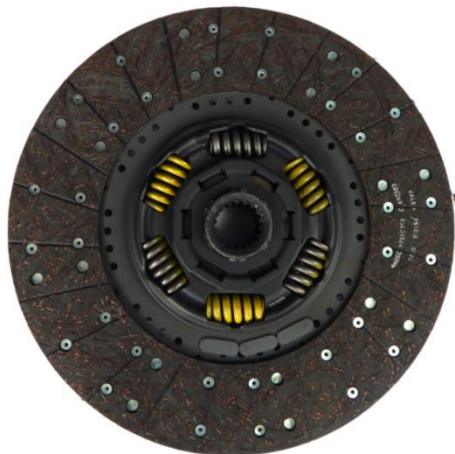
## 380mm (15") Conventional Cover Assembly

Special Feature	Advantage/ Benefit
Push type Clutch Cover Assembly	<ul style="list-style-type: none"> <li>- No Frequent Release bearing travel adjustment required</li> <li>- It is self-adjusting</li> <li>- A "Fit &amp; Forget" design.</li> </ul>
Coil Spring Design	<ul style="list-style-type: none"> <li>- Easy to repair &amp; overhaul</li> <li>- Low repair costs</li> <li>- Most ideal &amp; favorite of Indian market</li> </ul>
Collector – Ring provided	<ul style="list-style-type: none"> <li>- Release bearing contact with flat collector ring prevents grooving of the release bearing.</li> <li>- It also increases release bearing life.</li> </ul>
Unique Sheet metal release levers	<ul style="list-style-type: none"> <li>- Lighter but stronger design</li> <li>- Results in low pedal effort &amp; longer life.</li> </ul>
Release levers & eye bolts supported on needle roller bearings.	<ul style="list-style-type: none"> <li>- Less pedal effort</li> <li>- Longer life of clutch disc assembly.</li> <li>- It results in smooth &amp; easy clutch disengagement</li> </ul>
Cover designs with large openings	<ul style="list-style-type: none"> <li>- Better air circulation in operation .</li> <li>- Thus giving adequate cooling to the clutch components</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- It results in low vibrations &amp; smooth running</li> <li>- Increases life of clutch &amp; gearbox</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AMW	2518HL/TP/TM, 3118 HL/TP/TM, 3518TR, 4018TR, 4923TR	G-T380-CCA	2724 2540 0129 ID 209719 293 01 0012	Tata GB-75/Eaton 6209, 9306, 11109, Eicher ET 85, ALGB 940, ZF 6S-850, ZF1110
TATA	LPT/LPK2518, LPS 3118/3518/4018, LPO 1618 /1623, LPS 4923, LPT2521, LPK 1623, LPT/LPK2523, Prima M0, LPO 1623			
AL	2523/4018/4923-with ZF Transmission 2518/3118			
EICHER	9 Speed and 6S HD gear Box, Terra 25			





### SPECIFICATIONS & COMPETITIVE EDGE

- Engines Torque rating up to 1100Nm
- Rated Torque 1870Nm
- Vehicle from up to 25 Tonnes
- Valeo F510 Friction Lining
- Hub spline 40X36X18
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses
- Pre-dampening design
- Lower stiffness of damper spring
- Variant in dampening suitable to vehicle
- Original equipment to Bharat Benz

### 395mm(15.5") Benz Clutch Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
BHARAT BENZ	2523, 3128, 2518 25T, 31T, 37T, 40T, 49T, Vehicle Powered with 230 HP, 240 HP, 280 HP Engine	G-BENZ395- CD	A 400 250 00 03 640307733	G85/G-131



### SPECIFICATIONS & COMPETITIVE EDGE

- Engines Torque rating up to 1100Nm
- Vehicle from up to 25 Tonnes
- Clamping Load 2150 Kg
- Mounting hole PCD 410 mm
- Stronger Diaphragm with 24 fingers – gives easy disengagement
- Good – Multiaxle, Tripper and Trailer applications
- Passenger – Long Haul Multiaxle Luxury Buses
- Original equipment to Tata Motors, Ashok Leyland, Eicher

## 395mm(15.5") Benz Diaphragm Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>-Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>-The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
BHARAT BENZ	2523,3128, 2518 25T, 31T, 37T, 40T, 49T, Vehicle Powered with 230 HP, 240 HP, 280 HP Engine	G-BENZ395- DCA	A 400 250 00 04 640307733	G85/G-131



#### SPECIFICATIONS & COMPETITIVE EDGE:

- Engine Torque up to 950Nm
- Rated Torque 170Kgm
- Vehicles up to 25 tonnes
- Organic Clutch disc Valeo F510 Friction Lining
- Ceramic Clutch disc Miba Pad
- Hub spline 1.75"X10
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus
- Damper springs are not preloaded. Less structural damage, longer life of clutch disc.
- Original equipment to Tata Motors.

## 395mm(15.5") Ceramic & Organic Eicher Pro Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Organic: Prioritizes comfort with gentle engagement and disengagement, but struggles under high heat and torque, leading to potential slip.</li> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C Temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

#### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
EICHER PRO	6031/6025 (6S)	G-E3951-CD	3400090100 L-03H40-0G34-00	
AL				



### SPECIFICATIONS & COMPETITIVE EDGE

- Engines Torque rating up to 980Nm
- Vehicle from to 25 Tonnes
- Clamping Load 1850 Kg
- Mounting hole PCD 410 mm
- Stronger Diaphragm spring with 18 fingers
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provides lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assembly.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
EICHER PRO	6031/6025 (6S)	G-E3950-DCA	1400247100 L-01040-1054-00_AM	
AL				



### SPECIFICATIONS & COMPETITIVE EDGE

- Valeo Friction Lining
- Engines Torque rating up to 1100Nm
- Rated Torque 1880Nm
- Vehicle from to 25 Tonnes
- Valeo F510 Friction Lining
- Hub spline 1.75"X10
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses
- Pre-dampening design
- Lower stiffness of damper spring
- Variant in dampening suitable to vehicle

### 395mm(15.5) Mahindra Navistar Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C Temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Mahindra	MN25, MN31, MN35, MN37, MN40, MN49	G-M-NV395-CD	6801BAU00012	





#### SPECIFICATIONS & COMPETITIVE EDGE

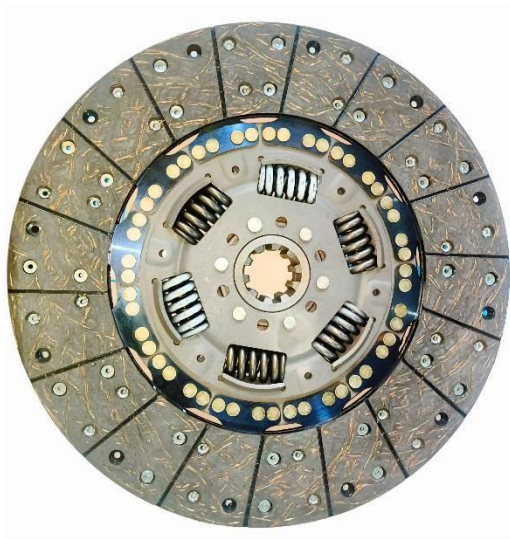
- Engines Torque rating up to 1100Nm
- Vehicle from up to 25 Tonnes
- Clamping Load 1850Kg
- Mounting hole PCD 410mm
- Stronger Diaphragm spring with 24 fingers
- Good – Multiaxle, Tripper and Trailer applications
- Passenger – Long Haul Multiaxle Luxury Buses

## 395mm(15.5") Mahindra Navistar Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>-Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>-The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

#### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Mahindra	MN25, MN31,MN35, MN37, MN40, MN49	G-M-NV395-DCA	6403126090 6801AAP00012	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 880Nm
- Rated Torque 1850 Nm
- Vehicles up to 25 tonnes
- Valeo F510 Friction Lining
- Hub Spline 1.75 X10
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

## 395mm(15.5") AL Organic Cushion Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C Temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AL, TATA, Eicher	395 Dia BS VI Organic. Mahindra Blazo	G-AL395-CD	3400112100 FAT01300 L-03040-1049-00	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque up to 1100Nm
- Rated Torque 1850 Nm
- Vehicles up to 25 tonnes
- MIBA friction button thickness 4.5mm
- Hub spline 1.75 X10
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

## 395mm(15.5") 8 Pad Ceramic AL Clutch Disc Assembly

Special Feature	Advantages / Benefits
Ceramic button pad	<ul style="list-style-type: none"> <li>- Ceramic clutches can withstand higher temperatures compared to organic or metallic clutches. This makes them suitable for high-performance applications where heat generation is significant, such as racing or heavy-duty driving</li> <li>- Ceramic materials offer excellent friction properties, providing a consistent and efficient grip between the clutch surfaces. This can contribute to better performance and smoother engagement</li> <li>- Ceramic material can withstand significantly higher temperatures than organic clutch plates, making them suitable for high-power applications with frequent hard acceleration and heavy towing</li> </ul>
Clutch disc hub splines induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Damper springs not preloaded	<ul style="list-style-type: none"> <li>- Less structural damages</li> <li>- Longer life of disc</li> <li>- Prevents damages to retainer plates</li> </ul>
Tested in house for 50 lakh cycles at 150°C Temperature.	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AL	Mahindra Blazo	G-AL395-BU	3400120100 L-03040-1034-03	Ceramic 8 pad
TATA				
EICHER				



### SPECIFICATIONS & COMPETITIVE EDGE

- Engines Torque rating 1100Nm
- Vehicle from to 30 Tonnes
- Clamping Load 2350Kg
- Mounting hole PCD 410 mm
- Stronger Diaphragm spring with 18 & 24 fingers
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses
- Serviceable type Cover Assembly
- Original equipment to Tata Motors, Leyland,

## 395mm(15.5) AL Diaphragm Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
AL	Mahindra Blazo	G-AL395-DCA	6403133090 1400243110	BS VI-395



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 900Nm to 1800Nm
- Max Rated Torque 2780NM
- Vehicles up to 30 tonnes
- Valeo F510 Friction Lining
- Hub splines-2"X10 & 1.75"X10
- Lower stiffness of damper spring
- Variants in dampening suitable to vehicle
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

## 430mm (17 ") Prima Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	4028, 4023, 3128, 2528	G-P4301-CD	5805 2540 0108	



## 430mm (17") Prima Cover Assembly



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 900Nm to 1800Nm
- Vehicle from up to 30 Tonnes
- Clamping Load 2900Kg
- Mounting hole PCD 450mm
- Stronger Diaphragm spring with 24 fingers
- Lightweight Pressed Steel Cover
- Thicker Pressure Plate
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses
- Original equipment to Tata Motors, Bharat Benz, MAN.

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
TATA	4028, 4023, 3128, 2528, 3138, 3225, 4925, 4825, 5525, 5530, LPS 4027, LPS 4938, LPK 2530, LPK 4928	G-P4300-DCA	5805 2540 0108 5850 2540 0101	



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 1000Nm to 1550Nm
- Max Rated Torque 2600 NM
- Vehicles up to 30 tonnes
- Valeo F510 Friction Lining
- Hub splines-2"X18 & 1.75"X10
- Lower stiffness of damper spring
- Variants in dampening suitable to vehicle
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus

## 430mm (17") Benz Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
BHARAT BENZ	2823C,2828CH,3528 C,3528CM,4828R, 4828RT,5028TT,5528 TT,5032TT,5532TT,2 532CM, 3532CM	G-BB4303-CD	343 0192 10 3430300100 L-03043-1131-00-A A4002504203	



#### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 900Nm to 1800Nm
- Vehicle from to 30 Tonnes
- Clamping Load 2900 Kg
- Mounting hole PCD 450 mm
- Stronger Diaphragm spring with 24 fingers
- Lightweight Pressed Steel Cover
- Thicker Pressure Plate
- Good – Multi-axle, Tripper and Trailer applications
- Passenger – Long Haul Multi-axle Luxury Buses
- Original equipment to Tata Motors, Bharat Benz, MAN.

## 430mm (17") Benz Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
BHARAT BENZ	2823C, 2828CH, 3528C, 3528CM, 4828R, 4828RT, 5028TT, 5528TT, 5032TT, 5532TT, 2532CM, 3532CM	G-BB4302-DCA	5805 2540 0108 5850 2540 0101	

## 430mm (17") Man Cover Assembly



### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 900Nm to 1800Nm
- Vehicle from to 30 Tonnes
- Clamping Load 3265 Kg to 3571 Kg
- Mounting hole PCD 450mm
- Lightweight Pressed Steel Cover
- Thicker Pressure Plate
- Stronger Diaphragm spring with 24 fingers
- Good – Multiaxle, Tripper and Trailer applications
- Passenger – Long Haul Multiaxle Luxury Buses
- Original equipment to Tata Motors, Bharat Benz, MAN.

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Man	F90,F2000	G-M4311-DCA	3400 122 201 019 250 00 01	
MERCEDES	AXOR I,II			



#### SPECIFICATIONS & COMPETITIVE EDGE:

- Valeo Friction Lining
- Engine Torque rating 950Nm to 1550Nm
- Max Rated Torque 2600Nm
- Vehicles up to 30 tonnes onwards
- Valeo F510 Friction Lining
- Hub spline 2"X10 & 1.75"X10
- Variants in dampening suitable to vehicle
- Good – Multi Axle trailers, Long haul & Trippers
- Passenger – Intra City, Bus
- Damper springs are not preloaded. Less structural damage, longer life of clutch disc.

## 430mm (17") Eicher Pro Disc Assembly

Special Feature	Advantages / Benefits
Organic facings with cushion segment	<ul style="list-style-type: none"> <li>- Gives smooth clutch engagement</li> <li>- Improves life of gear box</li> <li>- Less likely to damage the flywheel and pressure plate due to its softer friction material</li> </ul>
Non-asbestos lining	<ul style="list-style-type: none"> <li>- To meet international requirements</li> <li>- Free from Health Hazard</li> </ul>
Clutch disc hub splines Induction hardened	<ul style="list-style-type: none"> <li>- Less wear &amp; longer life of disc &amp; gearbox drive shaft splines.</li> </ul>
Pre-damper Clutch disc	<ul style="list-style-type: none"> <li>- Absorbing shock loads, the pre-damper clutch protect other components within the drivetrain from excessive wear and tear</li> <li>- Absorbing torque fluctuations during gear changes, pre-damper clutches enable smoother transitions between gears, especially at low speeds.</li> <li>- Pre-damper clutches are particularly advantageous in vehicles with high-performance engines, diesel engines, or those experiencing significant engine vibration at low RPM</li> </ul>
Tested in house for 50 lakh cycles at 150°C temperature	<ul style="list-style-type: none"> <li>- Longer defect free life cycle</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Give smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components</li> </ul>

#### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Eicher Pro	2823C, 2828CH, 3528C, 3528CM, 4828R, 4828RT, 5028TT, 5528TT, 5032TT, 5532TT, 2532CM, 3532CM, 8049, 8031, 6025 (9S)	G-E4306-CD	3430286100 3430300100 ID318935	





### SPECIFICATIONS & COMPETITIVE EDGE

- Engine Torque rating from 900Nm to 1800Nm
- Vehicle from to 30 Tonnes
- Clamping Load 3265Kg to 3571Kg
- Mounting hole PCD 450 mm
- Stronger Diaphragm spring with 24 fingers
- Lightweight Pressed Steel Cover
- Thicker Pressure Plate
- Good – Multiaxle, Tripper and Trailer applications
- Passenger – Long Haul Multiaxle Luxury Buses
- Original equipment to Tata Motors, Bharat Benz, MAN.

## 430mm (17") Eicher Pro Cover Assembly

Special Feature	Advantages / Benefits
Diaphragm spring in place of coil springs	<ul style="list-style-type: none"> <li>- The progressive pressure application from the diaphragm spring provides smoother clutch engagement, reducing shock and vibration</li> <li>- With a well-designed lever system, the diaphragm spring provide lighter pedal operation compared to some other clutch designs</li> <li>- The diaphragm spring acts as both, the clamping spring as well as the release lever. So many parts like eye bolts, levers, pins etc.</li> </ul>
Sheet metal cover	<ul style="list-style-type: none"> <li>- Better air turbulence in clutch assy.</li> <li>- Cooler operation</li> <li>- Longer life of components</li> <li>- Better strength</li> </ul>
Diaphragm clutch assembly	<ul style="list-style-type: none"> <li>- As the clutch facing wears, the diaphragm spring's pressure naturally increases, helping to maintain consistent engagement throughout the clutch life</li> <li>- Diaphragm springs handle higher torque loads due to their design, making them suitable for high-performance applications</li> <li>- The diaphragm spring design allows for a smaller clutch housing due to its efficient energy storage capabilities.</li> </ul>
Dynamically balanced	<ul style="list-style-type: none"> <li>- Gives smooth running due to less vibrations</li> <li>- Reduces wear &amp; tear of clutch &amp; gearbox components.</li> </ul>

### Application

Make	Model	GCPA Part Number	OEM Cross Reference	Remarks
Eicher Pro	2823C, 2828CH, 3528C, 3528CM, 4828R, 4828RT, 5028TT, 5528TT, 5032TT, 5532TT, 2532CM, 3532CM, 8049, 8031, 6025 (9S)	G-E4305-DCA	1430377100	