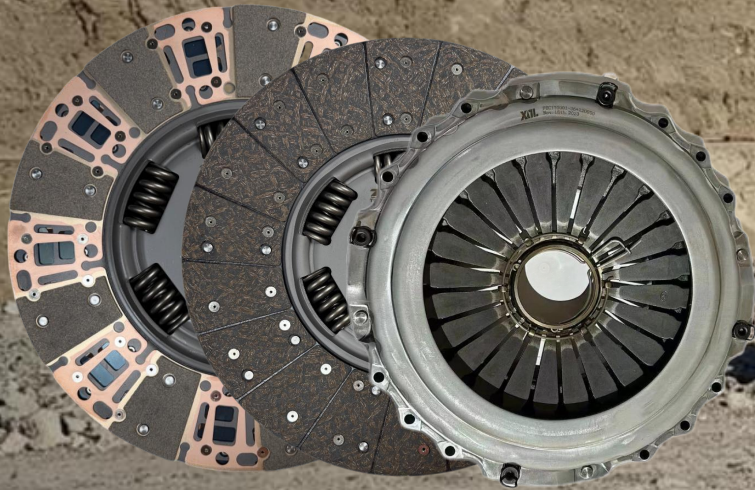
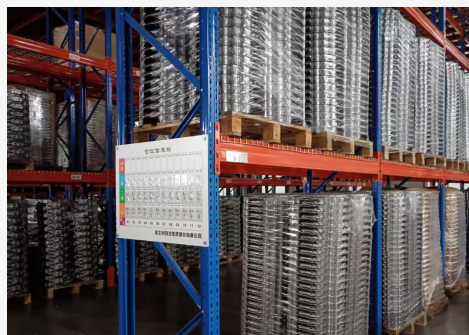


Clutch Spare Parts



Shaanxi Tonly Heavy Industries Co., Ltd.

Quality Control of Clutch Cover Assembly



01 Premium Material Selection

High-strength steel is strictly selected. Every batch passes incoming physical and chemical inspection to ensure qualified microstructure and mechanical properties.



02 Dynamic Balancing of Key Parts

Core parts are checked and corrected on high-precision balancing machines before assembly, reducing internal stress during high-speed rotation.



03 100% Diaphragm Spring Inspection

100% inspection of diaphragm spring finger runout and load curve ensures batch consistency and design compliance.



04 Torque-Controlled Assembly

Torque-controlled tightening ensures consistent bolt preload and reduces failure risk caused by assembly errors.



05 Comprehensive Performance Testing

100% online testing covers clamp load, release force, pressure plate lift and tilt. All parameters are digitally recorded.



06 Automatic Balancing Correction

The automated line completes dynamic balancing and weight correction with closed-loop accuracy control for smooth, vibration-free operation.



07 Dynamic Durability Validation

500000 dynamic release cycles simulate real operating conditions to validate fatigue resistance and lifecycle reliability.

Quality Control of Clutch Driven Disc Assembly



In-house processes including tooling, stamping, heat treatment and laser welding control production from the start, ensuring dimensional accuracy, strength and stable quality of stamped parts.



Premium Friction Facing and Test Equipment

High-performance friction materials and professional testing equipment ensure stable friction coefficient and



Assembly Compression Characteristic Tester

Axial compression performance is tested under simulated working conditions to improve clutch engagement smoothness and service life.



Professional Torsional Characteristic Test

Torsional stiffness and angle are accurately tested to verify damper performance and stable power transmission.



Online Drag Performance Test

100% online drag testing prevents incomplete release caused by excessive runout during vehicle installation.

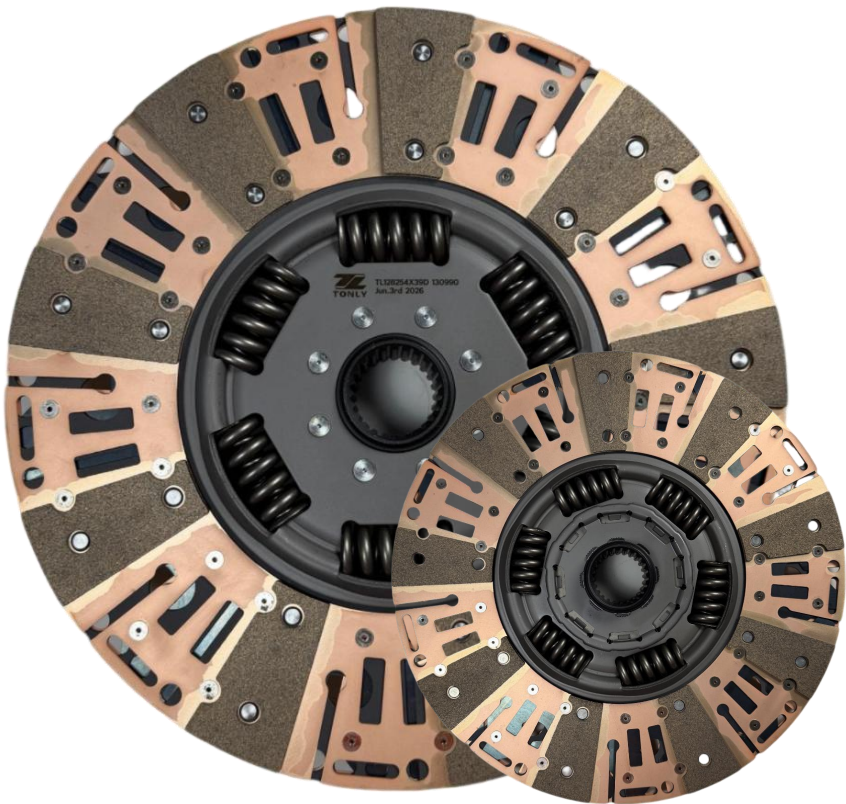
Tonly Heavy Industries Clutch Catalog



Application	No.	Part No.	Description	Specification (C-teeth, H-disc thickness)	Friction Facing
875 / 885	1	TL128254X39D	Driven disc assy. (ceramic)	430*240*232*24C*11.4H	Ceramic
	2	TLFEC170032-38	Cover assy. with release ring	430*240*475*53.5*11.4H	-
	3	TL128254C39A	Driven disc assy. (organic)	430*240*232*24C*10H	Organic
	4	TLFEC	Cover assy. with release ring	430*240*475*53.5*10H	-
891	5	TLFEC1283041	Driven disc assy. (ceramic)	430*260*252*24C*10.6H	Ceramic
	6	TLFEC1283015	Driven disc assy. (organic)	430*260*252*24C*10.6H	Organic
	7	TLFEC170011-44	Cover assy. with release ring	430*260*475*53.5*10.6H	-
875 885 891	8	TL125481H	Release bearing assy.	6089	-

1. Clutch Driven Disc Assembly

Part No.: TL128254X39D (24 teeth)



Application: 24-tooth spline with thickened ceramic facing. Matches TLFEC170032-38 pressure plate; suitable for 875 and 885 wide-body mining dump trucks.

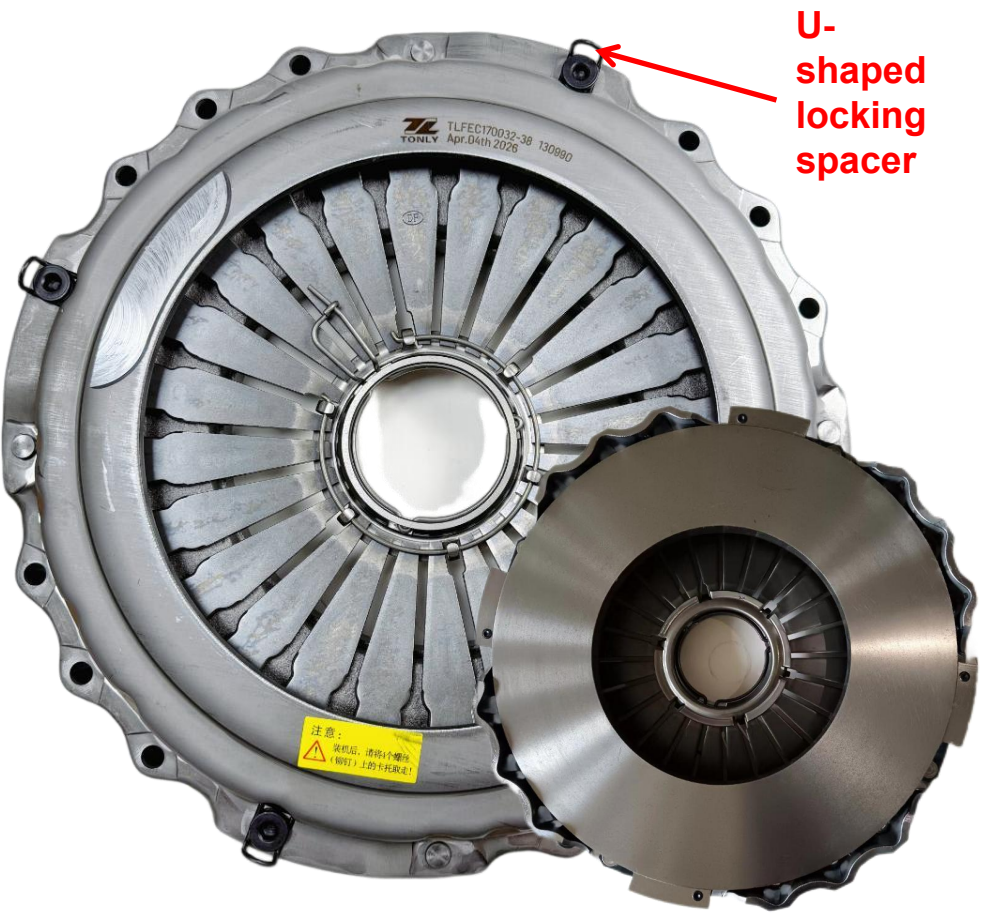
Parameter	Technical Data	Parameter	Technical Data
Facing OD	430mm	Facing ID	240mm
Damper plate OD	232mm	Spline teeth	24 teeth
Clamp thickness	11.4mm	Main damper springs	6
Pre-damper	With pre-damper	Max. torque capacity	3210N.m

Features: premium thickened ceramic facing, stable friction and longer wear life. Precision metal parts reduce failure risk in harsh operating conditions.

2. Clutch Cover Assembly with Release Ring



Part No.: TLFEC170032-38
For use with TL128254X39D ceramic disc



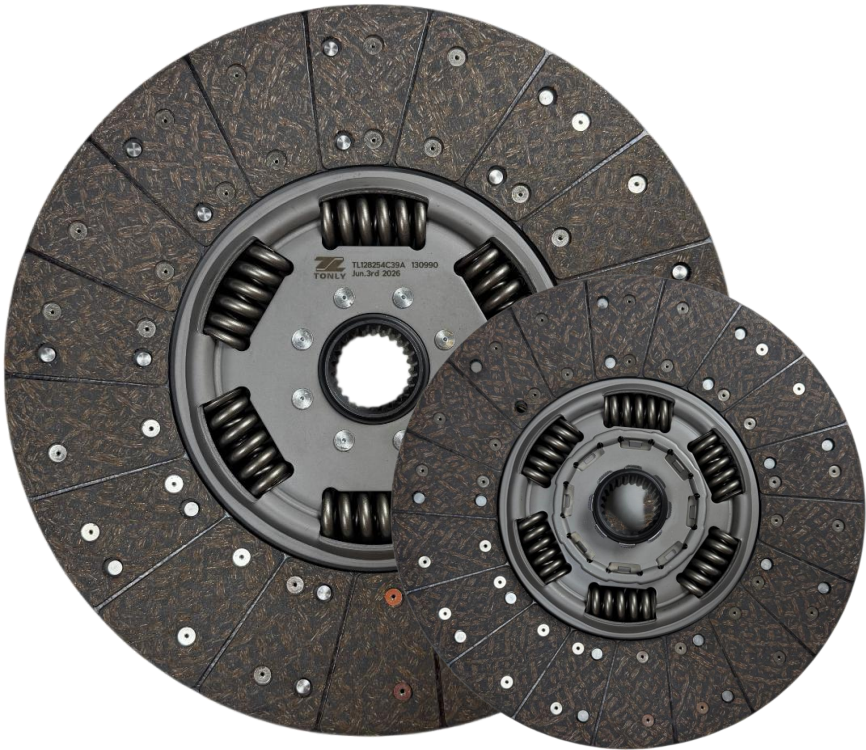
Application: matches TLFEC170032-38 clutch disc and fits 875 and 885 wide-body dump trucks with standardized mounting interface.

Important: remove the four U-shaped locking spacers after installation to prevent incomplete release and ensure safe operation.

Parameter	Technical Data	Parameter	Technical Data
Pressure plate OD	430mm	Pressure plate ID	238mm
Spacer height	11.4mm	Installation height	65±3.7mm
Working clamp load	≥41000N	Release force	≤7800N

Advantages: stable clamp load ≥41000N, 42Kg weight and sufficient heat capacity. High-strength cast iron improves rigidity, wear resistance and service life.

3. Clutch Driven Disc Assembly



Part No.: TL128254C39A (24 teeth)

For use with TLFEA pressure plate

Application: 24-tooth spline. Must be used with TLFEA pressure plate; suitable for 875 and 885 wide-body mining dump trucks.

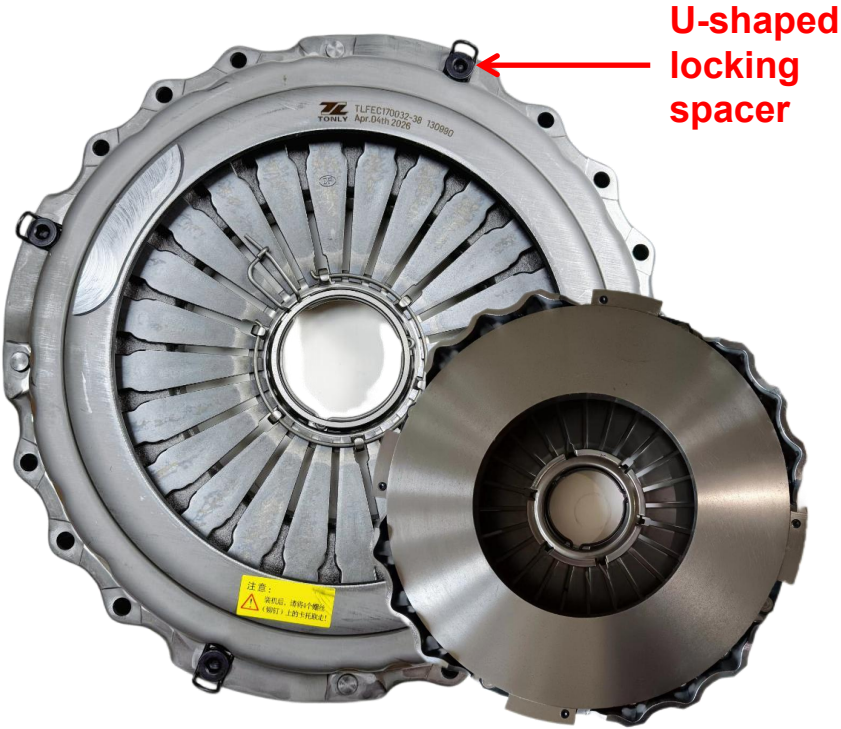
Parameter	Technical Data	Parameter	Technical Data
Facing OD	430mm	Facing ID	240mm
Damper plate OD	232mm	Spline teeth	24 teeth
Clamp thickness	10mm	Main damper springs	6
Pre-damper	With pre-damper	Max. torque capacity	3210N.m

Features: high-strength organic friction material with excellent wear and heat resistance, offering stable transmission and strong cost performance.

4. Clutch Cover Assembly with Release Ring



Part No.: TLFEA
For use with small organic disc



Application: matches TL128254C39A organic clutch disc; suitable for 875 and 885 wide-body mining dump trucks.

Note: remove the four U-shaped locking spacers after installation to avoid release sticking and ensure driving safety.

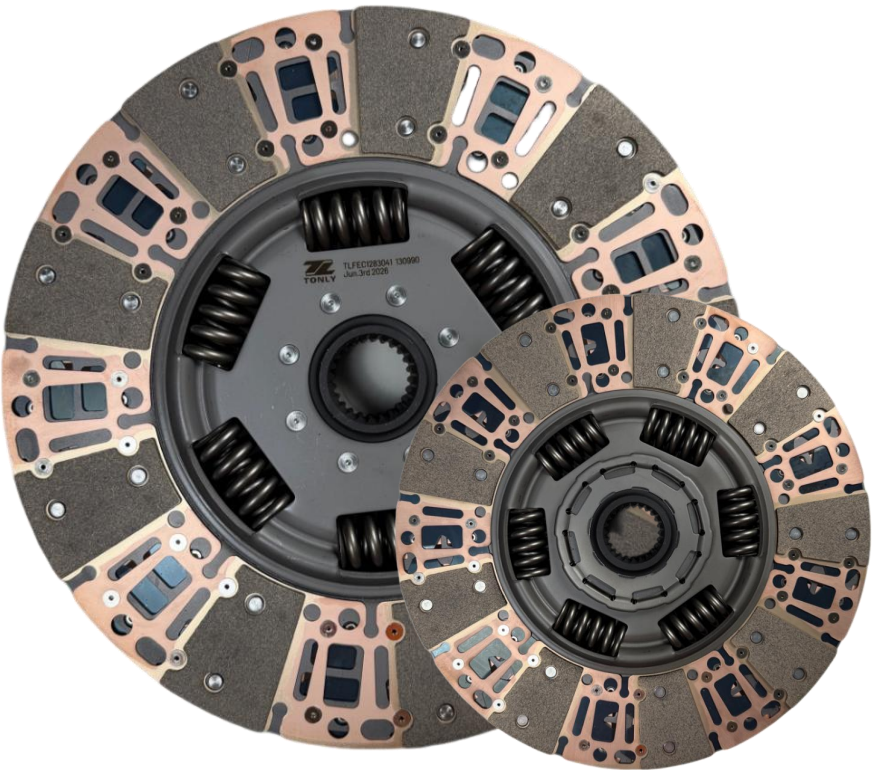
Parameter	Value	Parameter	Value
Pressure plate OD	430mm	Pressure plate ID	238mm
Working clamp load	≥41000N	Release force	≤7800N
Installation height	65±3.7mm	Max. height	≤83mm
Pilot diameter	475mm	Mounting hole diameter	11mm

Features: stable clamp load ≥41000N and 40Kg weight provide reliable torque transfer and heat capacity. Quality cast iron improves stability and wear resistance.

5. Clutch Driven Disc Assembly



For use with TLFEC170011-44 pressure plate



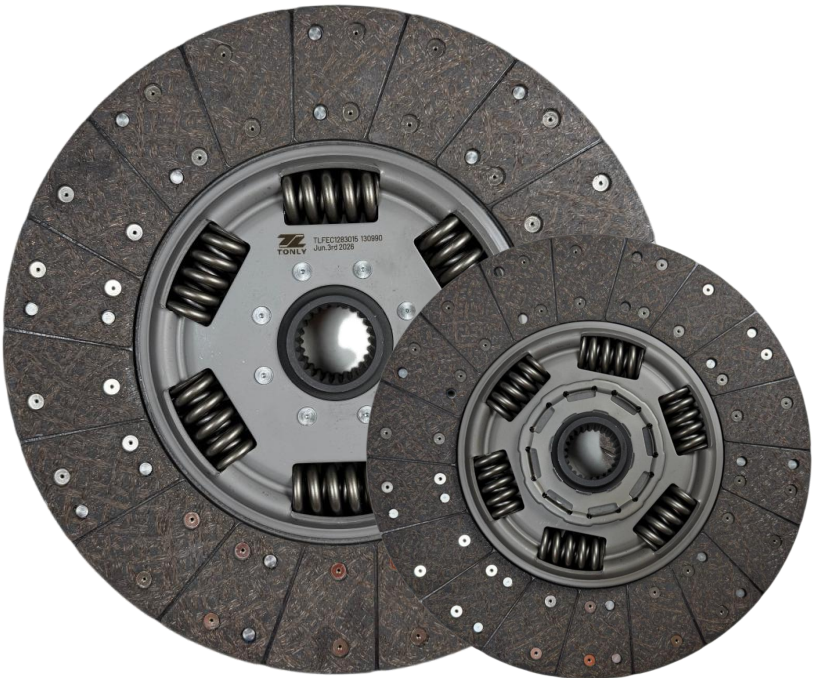
Part No.: TLFEC128304 (large ceramic disc, 24 teeth)

Application: 24-tooth spline, for TLFEC170011-44 pressure plate; suitable for 891 wide-body truck.

Parameter	Technical Data	Parameter	Technical Data
Facing OD	430mm	Facing ID	260mm
Damper plate OD	252mm	Spline teeth	24 teeth
Clamp thickness	10.6mm	Main damper springs	6
Pre-damper	With pre-damper	Max. torque capacity	3400N.m

Features: premium ceramic facing delivers stable friction and long wear life. Quality metal parts and precision processing improve transmission safety.

6. Clutch Driven Disc Assembly



Features:

High-strength organic friction material with wear and heat resistance. Designed for complex 891 working conditions with reliable performance and good value.

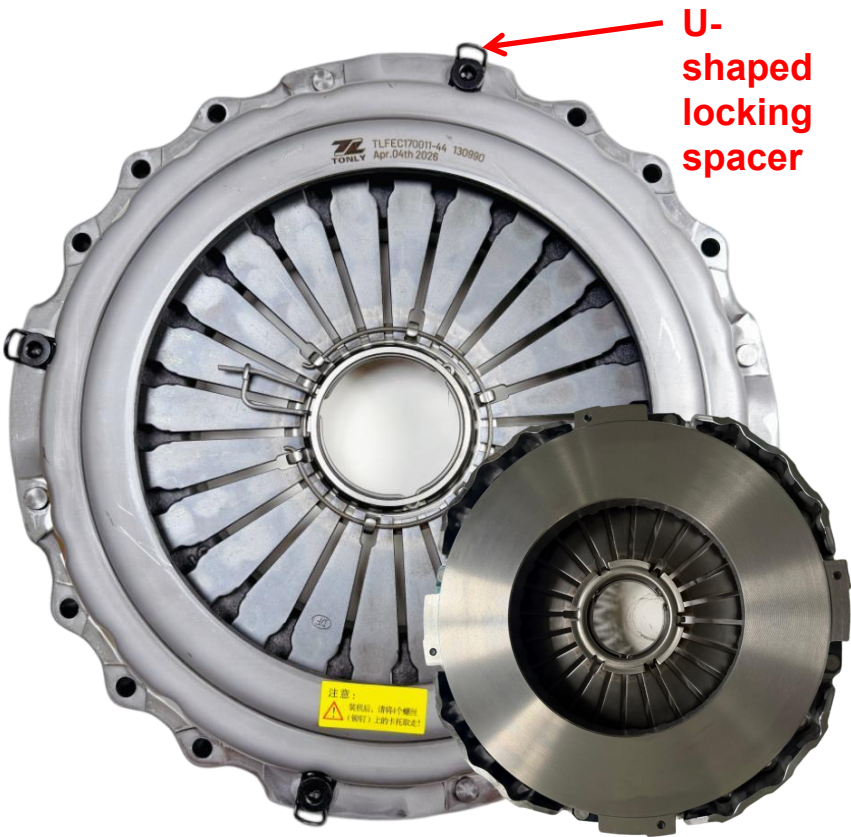
Part No.: TLFEC128301 (large organic disc, 24 teeth)

For use with TLFEC170011-44 pressure plate

Application: large organic disc with 24-tooth spline, for TLFEC170011-44 pressure plate; suitable for 891 wide-body mining dump truck.

Parameter	Technical Data	Parameter	Technical Data
Facing OD	430mm	Facing ID	260mm
Damper plate OD	252mm	Spline teeth	24 teeth
Clamp thickness	10.6mm	Main damper springs	6
Pre-damper	With pre-damper	Max. torque capacity	3400N.m

7. Clutch Cover Assembly with Release Ring



Part No.: TLFEC170011-44

Application: for TLFEC1283015 or TLFEC1283015 clutch disc; suitable for 891 wide-body truck.

Note: remove the four U-shaped locking spacers after installation. Otherwise, the clutch may not release normally and may cause serious mechanical failure.

Parameter	Technical Data	Parameter	Technical Data
Facing OD	430mm	Facing ID	240mm
Damper plate OD	232mm	Spline teeth	24 teeth
Clamp thickness	11.4mm	Main damper springs	6
Pre-damper	With pre-damper	Max. torque capacity	3210N.m

Features: stable clamp load $\geq 42000\text{N}$ and 42Kg weight ensure reliable torque transfer and heat capacity. Quality cast iron improves wear resistance and service life.

8. Release Bearing Assembly



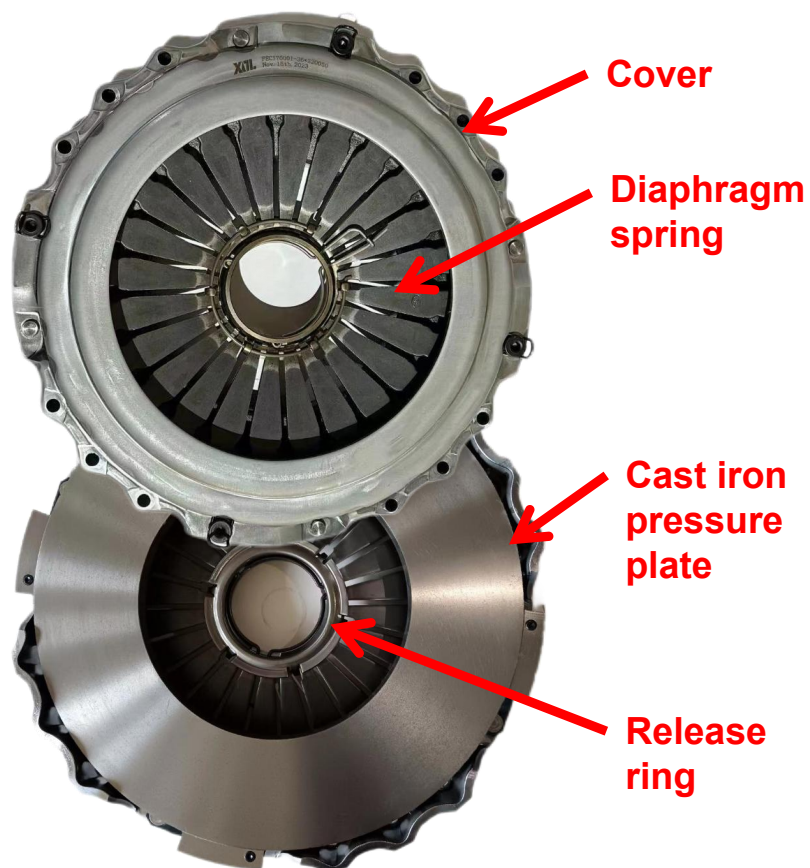
The release bearing is a key clutch component, enabling smooth gear shifting and longer clutch service life.

Part No.: TL125481H

Application: 875, 885 and 891 mining wide-body trucks. Designed for heavy-duty mining conditions with high reliability and durability.

Parameter	Value(mm)	Parameter	Value(mm)
Bearing housing diameter	131	Bearing installation height	111.8
Unit ID	60.2	Unit fitting height	89
Bearing end diameter	88.9	Top-to-groove height	10.8
Groove diameter	85.5	Bearing end ID	76

Structural Advantages of Clutch Cover Assembly



01. High-Strength Drawn Cover

Made from 7mm SPHC sheet by heavy-tonnage drawing and precision CNC machining. High rigidity and excellent batch consistency.

02. Custom Diaphragm Spring

Dafan diaphragm spring customized for mining truck conditions. Stable performance, low heat fade and long fatigue life.

03. OEM-Grade Cast Iron Pressure Plate

HT250 cast iron blank with precision CNC machining. Sufficient mass and heat capacity reduce deformation and heat cracking.

04. Stable Release Ring

OEM-level component with high mechanical strength and structural stability, built for frequent clutch operation.

Structural Advantages of Clutch Driven Disc Assembly



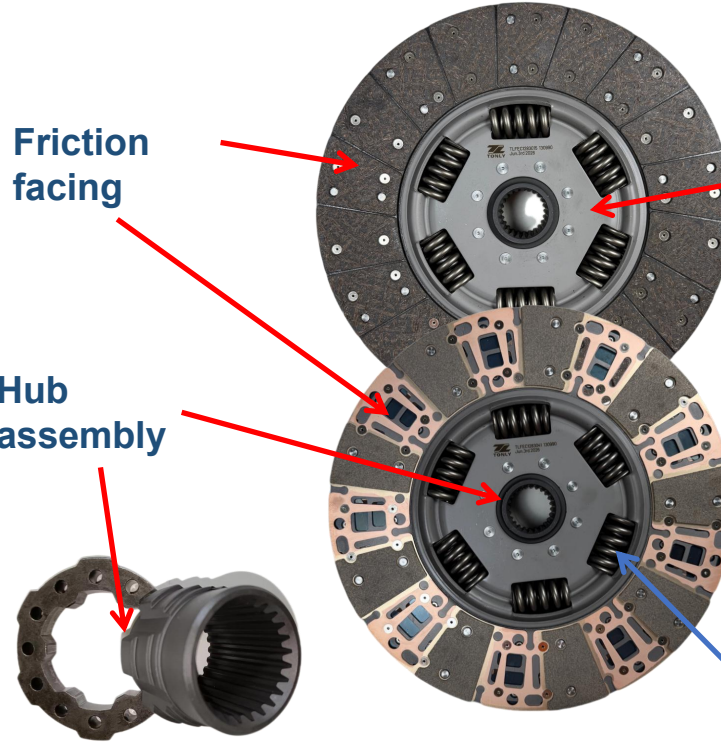
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01. Customized Friction Facing

Ceramic facing uses powder metallurgy sintering; organic facing is adapted for low-speed, high-torque operation.

Friction facing

Hub assembly

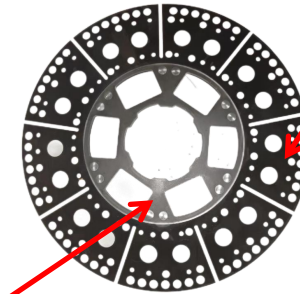


02. High-Strength Damper Plate

4.5mm alloy plate with carbonitriding improves surface and core hardness, reducing early wear and cracking of spring windows.

04. Fine-Blanked Large Steel Plate

Fine-blanked from 65Mn cold-rolled steel sheet with good flatness, impact resistance and thermal stability.



05. Reinforced Plate

6mm alloy plate with carbonitriding offers high hardness and crack resistance, reducing early failure risk.

06. Nitrided Damper Spring

Imported American-standard steel wire with surface nitriding improves wear and fatigue resistance.



40Cr alloy, cold extrusion, quenching and tempering plus high-frequency hardening provide impact and wear resistance.

Clutch driven disc assembly: a core transmission component integrating friction, damping and torque transfer for low-speed, high-torque mining truck conditions.

Product Packaging



Clear Genuine Parts Identification

The front of the carton is printed with “Tonly Heavy Industries” and “Genuine Parts” for easy authenticity identification.



Complete Information for Standardized Management

Side labels and barcodes include material code, specification and model for traceability and standardized warehouse management.

Pioneer and Leader in Off-Road Wide-Body Dump Trucks



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