

 **MotoLux** **ITST**



REPLACEMENT COMPONENTS FOR EUROPEAN & AMERICAN TRUCKS



YOUR RELIABLE & FAVOURITE RUBBER METAL PARTS SUPPLIER

TST as a brand of Motolux Co. is specialised in the production & sales of spare parts for heavy commercial vehicles which are alternative and interchangeable with the original ones.

We're mainly Rubber & Metal Parts Manufacturer Company established in Konya, Turkey in 2015.

TST Spare Parts are being produced with modern production Machine & Techniques, in integrated plant based on 4.500 m² closed area.

As TST Parts, we serve as a leading company in the supply of quality spare parts in the automotive industry.

With customer satisfaction as our priority, we aim to provide you with the best service with our wide range of products and professional team.



History

Our achievements from the beginning to the present

2015

Company Founded

Backed by 16 years of experience in the commercial vehicle spare parts industry, the company began its operations in Konya with a 250 m2 facility

2020

Global Exports

Successfully exporting to 14+ countries

2026

Industry Leader

Trusted supplier in both IAM and Domestic CV Spare Parts Industry.

Production

Integrated production facility was established in the Būsan Faydasıçok Industrial Site, covering an area of 1,200 square meters, laying the foundation for its growth in the Sector.

2018

Facility Expansion

Moved to Full Integrated Production Facility expanded to 4.000 m2 in Konsan Sanayi Sitesi

2025

Why Choose Us?

Your trusted partner in the commercial vehicle spare parts industry



2015
Year Founded

14+
Export Countries

4.500
m² Closed Area

6
Supported Brands



Around 8.000 products



Innovative & Forward-Thinking Approach



Genuine Quality Parts



12 Month Guarantee

TST Rubber Metal Parts

Engineered to perform & trust

What are Rubber-Metal Parts?

Rubber-metal parts are crucial components used in heavy commercial vehicles (trucks, buses, trailers, etc.) for vibration control, connection, and shock absorption in the automotive industry. Metal provides strength, while rubber provides flexibility and vibration damping.

Rubber-metal parts are composite parts produced by chemically bonding rubber and metal during vulcanization.

TST Rubber Metal Parts

- ✔ Reduces vibration and noise.
- ✔ Absorbs shock and impact.
- ✔ Extends the lifespan of moving parts.
- ✔ Provides flexible connection between metal parts.

Production Process

01

Press-CNC-Metal Surface Preparation - Sandblasting - Phosphate coating-Bonding Agent application-Rubber Preparation-Vulcanization

02

Rubber is cured in the mold together with the metal under heat and pressure

03

Rubber and metal are chemically bonded

04

Compression Molding Transfer Molding Injection Molding



ITST

**Quality
Production**

Types of Rubber Used:

- NR (Natural Rubber)
- High elasticity
- Good vibration absorption
- High wear resistance
- NBR (Nitrile Rubber)
- Oil and fuel resistance
- EPDM
- Heat and ozone resistance



Aluminum Gravity Die Casting

Engineered to perform & trust

Aluminum Gravity Die Casting (also known as Kokil Casting) is a manufacturing method in which molten aluminum is poured into reusable metal molds (usually made of steel or cast iron) and allowed to solidify under the effect of gravity. Unlike pressure die casting, no external pressure is applied to fill the mold.

What is Gravity Die Casting?

01

In this process, molten aluminum is poured into a permanent metal mold. The metal fills the cavity by gravity and solidifies inside the mold.

Basic process steps:

The metal mold (die) is prepared and preheated. Molten aluminum (around 700 °C) is prepared in the furnace. The molten metal is poured into the mold cavity. The aluminum solidifies in the mold. The mold is opened and the casting is removed. Because the mold is made of metal, it can be used repeatedly for thousands of castings.

Advantages of Gravity Die Casting

02

- Better surface finish compared to sand casting
- Improved mechanical properties
- Good dimensional accuracy
- Suitable for medium to high production volumes
- Lower porosity compared to some other casting methods



Aluminum Die Casting

Engineered to perform & trust

Aluminum Die Casting is a manufacturing method in which molten aluminum is injected into steel molds under high pressure to form metal parts.

Below is a brief and clear explanation of its basic principle and key points:

Working Principle

01

Aluminum is melted (approximately 660°C or higher).

The molten metal is injected into a steel mold using a high-pressure injection machine.

The metal cools and solidifies very quickly inside the mold.

The mold opens and the part is removed.

Excess material (flash, burrs, etc.) is trimmed.

This entire process usually takes only a few seconds.

Methods Used

02

1. Hot Chamber

Mostly used for zinc and metals with low melting temperatures.

Generally not suitable for aluminum.

2. Cold Chamber

The most commonly used system for aluminum die casting.

The metal is melted in a separate furnace, then poured into the machine and injected into the mold.

3. Advantages

Very high production speed
Highly suitable for mass production
Excellent surface quality
Thin-walled parts can be produced
High dimensional accuracy



Aluminum Low Pressure Die Casting (LPDC)

Engineered to perform & trust

Aluminum Low Pressure Die Casting (LPDC) is a casting process in which molten aluminum is pushed into a mold using low gas pressure (usually air or nitrogen). In this method, the metal fills the mold from the bottom upward, which allows for better control of the filling process and improves the quality of the casting.

Working Principle

01

In low pressure die casting, molten aluminum is stored in a sealed furnace located below the mold. When low pressure is applied inside the furnace, the molten metal rises through a riser tube and fills the mold cavity.

Basic process steps:

02

Aluminum is melted and maintained at around 680–720 °C in the furnace.

A low pressure of about 0.3 – 1 bar is applied inside the furnace.

The pressure forces the molten metal to rise through a riser tube into the mold.

The mold is filled gradually from the bottom to the top.

The metal solidifies inside the mold.



03

Advantages

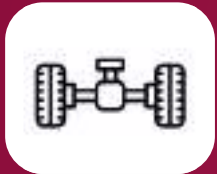
- ✔ Very low porosity
- ✔ High mechanical strength
- ✔ Uniform internal structure
- ✔ High metal yield (about 85–95%)
- ✔ Suitable for heat treatment processes
- ✔ Because of these advantages
- ✔ LPDC is widely used in the automotive industry.

DON'T RISK IT...REPLACE IT WITH TST PARTS



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Systems**



Cabin



**Clutch
and
Pedals**



**Cooling
System**



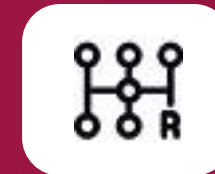
Engine



**Exhaust
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System**



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Shaft**



Steering



Suspension



**Other
Parts**

Other

Global Presence



Exporting to over **14 countries**
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GLOBAL PERFORMANCE

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