



DRAGONEX

Automotive Friction Material Engineering Partner

Materials | Process | Equipment | Quality | Technology Transfer

— 2026.6 —

DRAGONEX LIMITED

Dedicated to integrated technical services for automotive friction material manufacturers

WHO WE ARE?

Company Position

Dragonex is an engineering partner for automotive friction material manufacturing. We help manufacturers build, stabilize, and improve production capability through integrated engineering support.

Customer Value

We help manufacturers achieve:

- Stable and repeatable production
- Consistent product quality
- Higher equipment efficiency (OEE)
- Sustainable manufacturing capability

Engineering Domains

- Materials Engineering
- Process Engineering
- Equipment Engineering
- Quality Systems Engineering
- Technology Transfer & Training



WHY US?

Research-Driven. Industry-Proven.

DRAGONEX
Automotive Friction Material Engineering Partner



Built on Central South University's powder metallurgy research system and national-level engineering innovation programs.



Backed by over 10 years of engineering and manufacturing experience in automotive friction materials.



Integrating research, engineering, and manufacturing capabilities to deliver practical industrial solutions.

Certifications & Compliance



IATF16949

IATF 16949 Automotive Quality
Management System Certification



ISO 9001:2015 Quality
Management System Certification



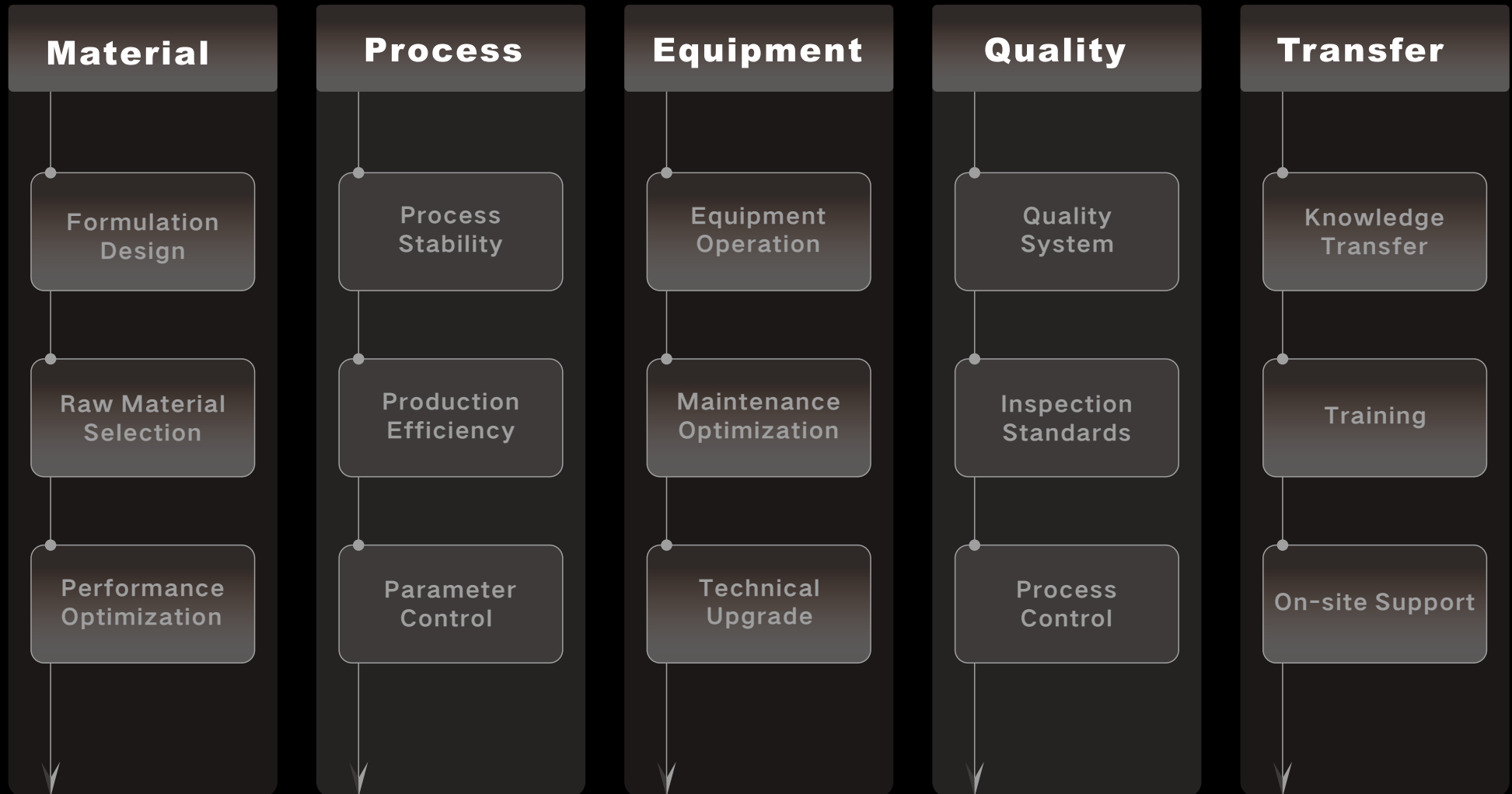
UN ECE R90 COP
Compliance Statement



Proven Manufacturing &
Engineering Capability

Technical Capability Blueprint

Five - Domain Engineering Framework for Friction Material Manufacturing



Capability Overview

Friction material formulation design and engineering capability

- Formulation Development
Production-scale formulation design with process parameter alignment
- Regulatory Material Systems
NAO / low-metallic / ceramic systems compliant with ECE R90 and ES 2038
- Performance Control
Optimization of friction stability, thermal fade resistance, wear performance, and braking comfort.
- Cost Optimization
Local material substitution and cost structure optimization



Manufacturing Process Capability

Process control capability for stable and scalable production.

Process Control

- Mixing control
- Hot pressing control
- Curing parameter stability
- Process repeatability

Production Consistency

- Batch-to-batch stability
- Process variation control

Line Operation Support

- Production rhythm optimization
- Key process coordination
- Stable line performance



Mixing



Pressing



Curing



Finishing



Equipment Engineering Capability

Equipment operation and production line engineering support capability.

Equipment Operation Support

- Mixing equipment operation
- Hot pressing equipment support
- Machining equipment management

Production Line Engineering

- Process – equipment alignment
- Line configuration optimization
- Production flow integration

Equipment Upgrade Capability

- Control system upgrade
- Mechanical structure optimization
- Equipment performance improvement



Quality & Testing Capability

Full-process quality control and testing capability for automotive friction materials.

Quality System Operation

- IATF 16949 system operation
- Automotive quality standard compliance
- Daily quality system execution

In-Process Quality Control

- Key process quality control
- Standard operation control
- Process variation management

Testing Capability

- Friction performance testing
- Physicochemical property testing
- Product release validation
- Process verification testing



Technology Transfer Capability

Full-process technology transfer and production enablement for friction materials.

Technical Documentation System

- Formulation documentation
- Process SOPs
- Equipment operation guidelines
- Process parameter standards

Training System

- Formulation training
- Process training
- Quality inspection training
- Basic equipment maintenance training

On-site Support

- Production line commissioning support
- Process introduction and setup
- Production stabilization assistance



Service Model

An integrated end-to-end engineering approach from initial assessment to stable operation, optimized for local production conditions.

Assessment

On-site audit of formulations, process stability, equipment OEE, and quality bottlenecks.

Optimization

Design of friction material formulations (NAO / Low-Met), process parameters, and equipment upgrade solutions.

Implementation

On-site process trials (mixing, pressing, curing), sample validation, and IATF 16949 system support.

Operation

SOP deployment, local team training, and data-driven continuous improvement for stable OEE performance.

Application & Track Record

DRAGONEX
Automotive Friction Material Engineering Partner

- **Application Scope**

Friction materials and automotive component manufacturing

- **OEM Validation**

Proven across 30+ OEM programs in China

- **Passenger Vehicle Platforms**

BYD / Changan / GWM / Wuling / FAW

- **Commercial Vehicle Platforms**

Dongfeng / Foton / JAC

- **Application Feature**

Engineering-based adaptation and on-site technical support aligned with real production conditions



GWM



WULING



FAW GROUP

Thanks

DRAGONEX LIMITED

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