



WHO ARE WE?

- **Established in 2004**
- **Producing Suspension, Convolutated, Cabin&Seat and Passenger Car Air-Springs**
- **With over 350 Members**
- **21.000 m2 closed area**
- **24 Steam Presses 26 Electric Presses**
- **Annual Capacity 1'200'000 pieces**
- **Over 1500 different types of air-springs**

bsi.

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

Fabio Hava Süspansiyon Sistemleri ve
Yedek Parçaları Sanayi Tic. Ltd. Sti.
10. Cd. No:6 Nil
Hasanağa Org. San. Böl.
Bursa
Bursa
16110
Turkey

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Manufacturing of air suspension systems

Permitted exclusion: Product design

For and on behalf of BSI:



Andrew Launn, EMEA Systems Certification Director

BSI Certificate Number: 707619

IATF Number: 0358820



Certification Date: 2019-09-03

Latest Issue: 2019-09-03

Page: 1 of 1

...making excellence a habit.™

Expiry Date: 2022-09-02



By Royal Charter



CERTIFICATE

This is to Certify that the
Quality Management System
of

Fabio Hava Süspansiyon Sistemleri ve Yedek Parça San. Tic. A.Ş.

Hasanağa Organize Sanayi Bölgesi 10. cadde No:6 Nilüfer 16280 Bursa Türkiye/Turkey

has been independently assessed and is compliant
with the requirements of

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

Manufacturing and Assembly of Air Spring Systems.

ASSESSMENTS

Certificate No.: TR205641A

Date of initial registration	25 July 2018
Date of this Certificate	25 July 2018
Surveillance audit on or before	24 July 2019
Recertification Due / Certificate expiry	24 July 2021

This Certificate is property of LMS Certifications and remains valid
subject to satisfactory surveillance audits.



Director



Accreditation



LMS Certifications Private Limited

e-mail :- info@lmsassessments.com,

Visit :- www.lmsassessments.com.



inspect

Certificate
Sertifika

Client Name and address

Müşteri ismi ve adresi

**FABİO HAVA SÜSPANSİYON SİSTEMLERİ VE
YEDEK PARÇA SAN. TİC. A.Ş.**

Hasanağa Organize Sanayi Bölgesi 10. cadde No:6 Nilüfer 16110 BURSA / TÜRKİYE

Standard

Standard

ISO 27001:2013 Information Safety Management System

INSPECT assessed and approved that related from meets the requirements of the designated standard at related scope
INSPECT ilgili kuruluşun yukarıda belirtilen standartın gerekliliklerine uygunluğunu ilgili kapsamda testler etmiş olup onaylanmaktadır

Scope

Kapsam

MANUFACTURING AND INSTALLATION OF AIR SPRING SYSTEMS AND SPARE PARTS

HAVA SÜSPANSİYON SİSTEMLERİ VE MONTAJI, YEDEK PARÇALARI ÜRETİMİ

Initial Issue date: 28.Apr.2019
Issue date of this certificate: 22.Jun.2020
Validity of this certificate: 27.Jun.2021
Recertification date: 27.Jun.2021
Certificate No: 19.02.316-ISMS

The period of certificate is 3 years.

To verify the validity of this certificate please visit: www.inspect.com.tr
Bu sertifikayı doğrulamak için lütfen www.inspect.com.tr ziyaret ediniz.
The validity of this certificate is depend on the success of surveillance assessments
Bu belgenin geçerliliği ara denetimlerin başarılı olmasına bağlıdır.

INSPECT Uluslararası Belgelendirme ve Gözetim Hiz. Tic. LİM. ŞİLTURKEY
www.inspect.com.tr - Belgeler periyodu 3 yıldır.



inspect

Certificate
Sertifika

Client Name and address

Müşteri ismi ve adresi

**FABİO HAVA SÜSPANSİYON SİSTEMLERİ VE
YEDEK PARÇA SAN. TİC. A.Ş.**

Hasanağa Organize Sanayi Bölgesi 10. cadde No:6 Nilüfer 16110 BURSA / TÜRKİYE

Standard

Standard

ISO 14001:2015 Environmental Management System

INSPECT assessed and approved that related from meets the requirements of the designated standard at related scope
INSPECT ilgili kuruluşun yukarıda belirtilen standartın gerekliliklerine uygunluğunu ilgili kapsamda testler etmiş olup onaylanmaktadır

Scope

Kapsam

MANUFACTURING AND INSTALLATION OF AIR SPRING SYSTEMS AND SPARE PARTS

HAVA SÜSPANSİYON SİSTEMLERİ VE MONTAJI, YEDEK PARÇALARI ÜRETİMİ

EA/Category Code: 22
Initial Issue date: 03.Apr.2018
Issue date of this certificate: 27.Apr.2020
Validity of this certificate: 02.Apr.2021
Recertification date: 02.Apr.2021
Certificate No: 18.01.302-EM
The period of certificate is 3 years.

To verify the validity of this certificate please visit: www.inspect.com.tr
Bu sertifikayı doğrulamak için lütfen www.inspect.com.tr ziyaret ediniz.
The validity of this certificate is depend on the success of surveillance assessments
Bu belgenin geçerliliği ara denetimlerin başarılı olmasına bağlıdır.

INSPECT Uluslararası Belgelendirme ve Gözetim Hiz. Tic. LİM. ŞİLTURKEY
www.inspect.com.tr - Belgeler periyodu 3 yıldır.



ACCREDITED
Management System
Certification Body
MSCB-148



FABIO IN THE WORLD



AIR SPRING FACTORY

Closed Area 21.000 m²



RUBBER FACTORY

Closed Area 6.000 m²



METAL FACTORY

Closed Area 7.500 m²



BURSA

**SAMSUN
(BAFRA)**

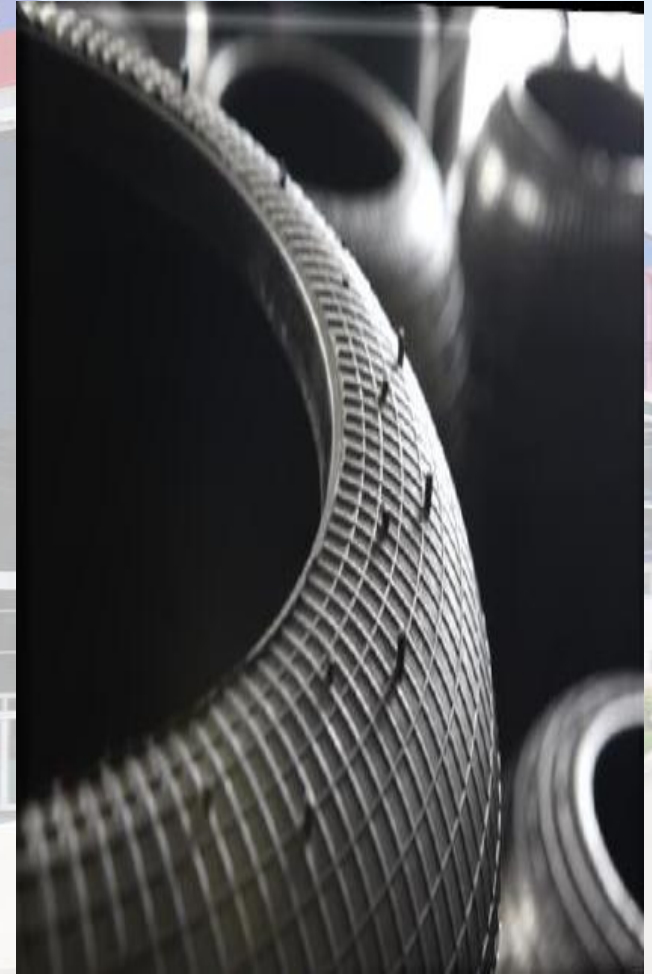
TURKEY

TYPES OF AIR SPRINGS

- **ROLL**
- **CABIN**
- **COMPLETE**
- **CONVOLUTED**
- **PASSENGER CAR AIR SPRINGS**
- **SERVICE ASSEMBLY**



ROLL



COMPLETE



CABIN



CONVOLUTED



PASSENGER CAR AIR SPRINGS



SERViCE ASSEMBLY

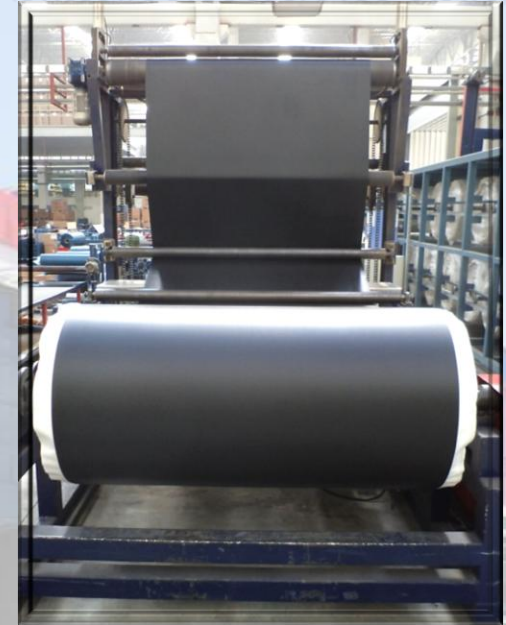


RAW MATERIALS

RAW MATERIAL SUPPLIERS SHOULD HAVE ISO 9001 DOCUMENTATION AT LEAST.

RUBBER AND CORD FABRIC

OUR CURRENT SUPPLIERS ARE THE COMPANIES THAT HAVE PROVED THEIR PRODUCTION QUALITY AROUND THE WORLD. FOR RUBBER KRAIBURG FROM GERMANY AND CORD FABRIC KORDSA FROM TURKEY.



METAL PARTS

ALL THE METAL COMPONENTS OF OUR AIR SPRINGS ARE MANUFACTURED IN FABIO PLANT. OUR BASIC METAL SUPPLIER IS ERDEMİR. (WORLD-CLASS MANUFACTURER).



PRODUCTION PROCESS

AIR SUSPENSION SPRING & CONVOLUTED & CABIN AND SEAT



- RUBBER CUTTING

- ROLLING

- VULCANIZING

- ASSEMBLING

- PACKAGING

- SHIPPING



CUTTING



ROLLING



VULCANIZING

5J05



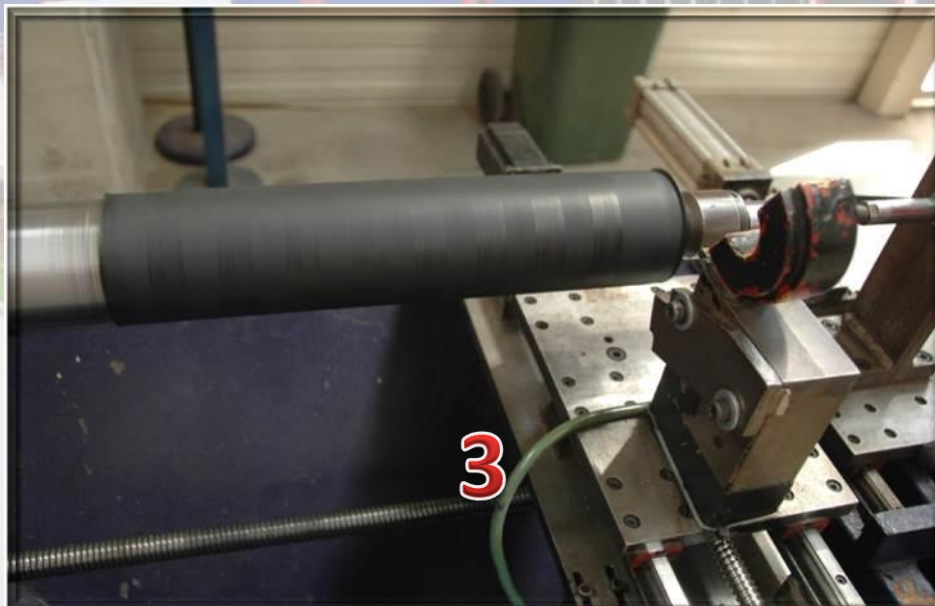
ASSEMBLING



PACKAGING

**CABIN AND SEAT AIR SPRING
PRODUCTION AREA**

PRODUCTION STEPS



PRODUCTION STEPS



PRODUCTION OF METAL PARTS



YOU CAN SEE THE FLOW CHART OF METAL PART PRODUCTION PROCESS.

FORMING AND DRILLING



fabrikaynak[®]
ROBOTİK KAYNAK İŞLEM MERKEZİ

3

a afsa
www.afsa.com.tr



WELDING



CYCLE TEST

**WELDING
PENETRATION
TEST**

BURST TEST

QUALITY TESTS

**LOADING
CAPACITY
TEST**

LEAKAGE TEST

**RUBBER
BREAKING
TENSILE TEST**



CYCLE TEST





MarForm
Form and Location Tolerances

BULUCUT
ABRASIVE CUTTER

fabio[®]
Air Springs





robio®



fabio[®]
Air Springs





fabio



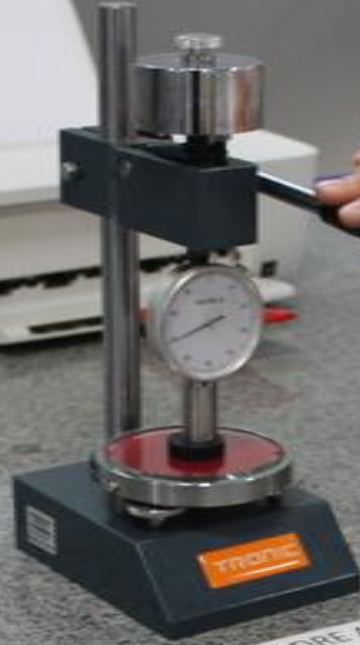


Mon Tech
Rubber Testing Solutions



MDR 3000 Basic Moving Die Rheometer





SHORE A
SERTLİK
ÖLÇÜMÜ







YOĞUNLUK
ÖLÇÜM
CİHAZI

**RUBBER BREAKING TENSILE
TEST
&
LOADING CAPACITY TEST**



BURST TEST

EQUIPMENTS

• MOLDING SECTION

- 1 CNC LATHE MACHINE
- 1 CNC VERTICAL MILLING
- 3 UNIVERSAL LATHE MACHINE
- 1 DRILL PRESS
- 2 FRAISE UNIVERSAL
- 1 HOLE DRILLING BENCH

• VULCANIZATION SECTION

- 16 ROLLING MACHINE PRESS
- 67 STEAM VULCANIZATION PRESS
- 3 CABINET PRESS

• WELDING SECTION

- 400 & 100 & 60 TONS ECCENTRIC PRESS
- 400 TONS HYDROLIC PRESS
- 2 RADIAL DRILL
- 4 AUTOMATION WELDING
- 1 ROBOTIC WELDING
- 2 LEAKAGE TEST MACHINE
- 2 COPY WELDING MACHINE

• LABORATORY SECTION

- CYCLE TEST EQUIPMENT
- BURST TEST EQUIPMENT
- LEAKAGE TEST EQUIPMENT
- RUBBER BREAKING TENSILE TEST EQUIPMENT
- LOADING CAPACITY TEST EQUIPMENT
- WELDING PENETRATION TEST EQUIPMENT

FROM OUR KITCHEN



FROM OUR KITCHEN



FROM OUR KITCHEN



FROM OUR KITCHEN



FROM OUR KITCHEN



FROM OUR KITCHEN



FROM OUR KITCHEN



AUTOMATIC CUTTING MACHINE



WHY FABIO?

- **PRODUCT QUALITY**
- **STRONG R&D**
- **VARIOUS KINDS OF REFERENCES**
- **QUICK REPLY TO CUSTOMERS**
- **FAST SHIPPING**
- **INTEGRATED FACILITY**
- **YOUNG AND DYNAMIC TEAM MEMBERS**

THANK YOU

