

New thinks new *advantages...*

Yeni fikirler, yeni *fırsatlar...*



ORBIS Co-Driver Seat
Seating System Solution (M2)

Field Of Application is for Midibus & Minibus



Prepared by Teknotrim Sales & Marketing Department

Company Location



- ✓ As Teknotrim , we produce seating system in 6.000m² closed production area
- ✓ We have welding , foaming , molding , stamping , profile bending , cutting , sewing , final assembly workshops with incoming and outgoing storages.
- ✓ With all necessary production lines and machineries, we are completely integrated Corporation.



THE HISTORY OF TEKNOTRIM

2015

Teknotrim started to make his own cinema , conference and theatre seating system solution for respectable clients.

2019

Teknotrim decided to access of the commercial vehicle industry by generating the new generation passenger , co -driver, ambulance and special seating system solutions with contemporary design, building upon to start of R&D studies.

Furthermore , Teknotrim obtained ISO TS 9001 ; 14001 and OHSAS 18001 certifications.

2013

Teknotrim Co. has been established to produce main integral metal parts , PU parts and seat foam as semi finished materials for seat manufacturers globally.

2016

In order to hold an integrated facility completely, profile bending technology, stamping , welding technology and robotic systems have been adapted.

2020

Orbis 100 Intercity passenger seat , Apeiron DC and Nobilis DC ambulance seats are designed in scope of the creting the new generation seating system solutions

Teknotrim scheduled to obtaing of ISO TS 16949 quality certification

ERP software of is integrated to all departments to follow all process up through the system in order to hold a full of control on the tracebility , production planning , ordering , R&D activities , quality management , finance and logistic activities.

Welding & Foaming Process



We have 10 manual welding cells and robotic welding operations



We can make our own foam design and production capability. We produce more than 420.000 units backrest and seat cushion foam per year.



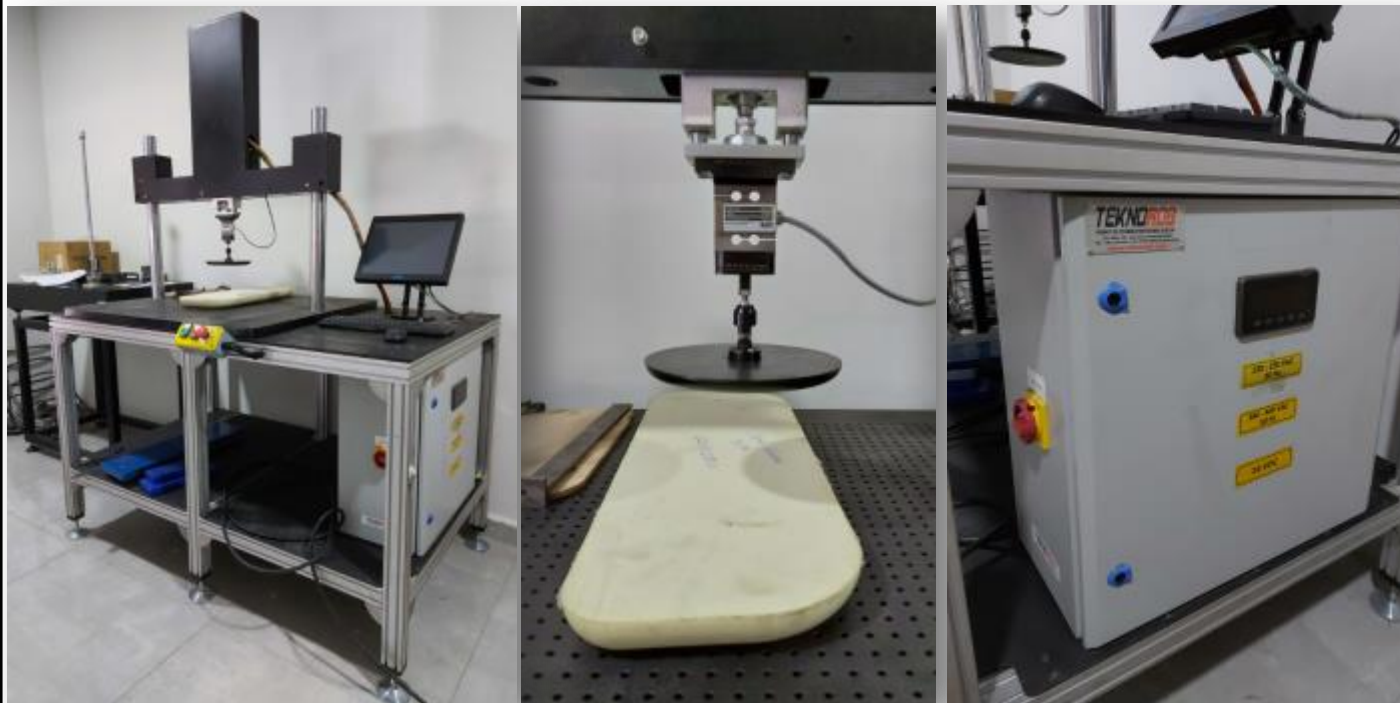
TEKNOROB is our group company and all automation and linear robotic system needs are satisfied , developed and integrated by our group.



With highest and flexible robotic system usage advantage , all welding operations are made by robotic welding machines and all necessary welding apparatus and fixations are designed appropriate for robotic welding process



Foam Density Control Process



The foam density control machine has been designed and produced by our group company of TEKNOROB for our laboratory.

Hereby holding this machinery , we can make density control in prototype , pre-serial and serial phase of the product in various periods and all datas have been reported and followed up by our Quality Department regularly.

The foam density control machine is controlled , tested and funded due to it is considered as a national technology by The Scientific And Technological Research Council Of Turkey. The machinery is also patented by TEKNOROB.

www.teknorob.com



«...research is to see what everybody else has seen , and to think what nobody else has thought...»

Albert Sizent

Research & Development Capability

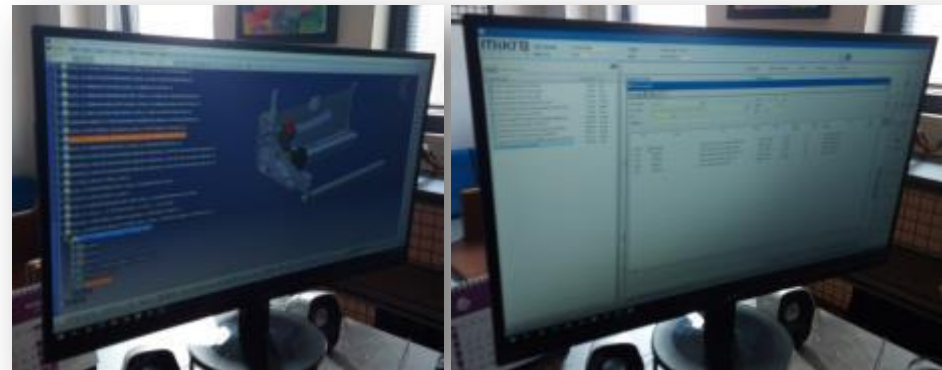
Research & Development consists of two main departments as Industrial & Mechanical Design Center and Product Development & Application Center

Our technical capability can be considered with following topics;

- 1.Industrial Product Design*
- 2.Mechanical Design*
- 3.Product Development & Applications*
- 4.Software & electrical design and application supported by Teknorob R&D*
- 5.Test & Documentation Process*
- 6.Project Management*

Data Base Management

We use Catia V5 and Autocad program and also ERP data base system program called MICROFLY PROFESSIONAL which has been developed mad most of the interface software codes by our R&D Software Specialists



Sewing & Last Montage & Storages



Packing & Storage Process

Management

Mustafa Samancı
General Manager

Bilgehan Gültekin
Sales & Marketing Manager

Fatih Vural
Foreign Trade Manager

Şenol Aladağ
R & D / Strategic Purchasing Manager

Sevilay Samancı
Account Manager

Sevilcan Ceylan
Quality Manager

Taner Peker
Logistic & Production Manager

Cüneyt Çetin
Project Executive

Abdullah Ayduğan
Quality Chief

Mustafa Tokmak
Metal Production Line Chief

Özgür Ece
Foaming Production Line Chief

Kazım Temel
Upholstery & Last Montage

- Totally we have 28 white collar and 95 blue collar staff
- Total worker is 123



Commercial Vehicle
Seating Systems



Orbis C0-Driver

M2

Midibus & Minibus



- Constructed based on M2 main structure
- Contemporary design
- Highest ergonomic
- Minimized welding process
- Security
- Weight advantage
- Modular production technology
- Accessory variations



Orbis C0-Driver

M2

Midibus & Minibus

Commercial Vehicle Seating System ORBIS New Generation Passenger Seat

Industrial Design And Modular Technology





Standard Features

- Constructed based on M2 main structure with 450mm backrest and seat cushion width and 450mm seat cushion depth foam dimensions
- 3P Automatic Safety Belt with «ALL AGE» mechanism
- Upward folding armrest on both sides of the seat
- Upward folding seat cushion
- Lower back plastic cover on backside of the seat cushion
- Lower plastic ABS cover under the seat cushion
- Upward seat cushion locking link
- Side plastic covers on both sides of the seat cushion
- Standard upholstery
- Base connection



Standard Features

3P Automatic Safety Belt «ALL AGE»

Standard

Upward Folding Armrest

Standard

Upward Folding Seat Cushion

Standard

Upward seat cushion locking link

Standard

Side ABS Seat Cushion Cover

Standard

Lower Plastic ABS Cover

Standard



Orbis C0-Driver

M2

Midibus & Minibus



Optional Features

- Metal Grap Handle Under The Seat Cushion
- Flat Backrest Foam Alternative
- RAL 9005 Black ABS Plastic Color Alternative
- USB Application
- Emboridery Application On The Headrest
- Flair , Top Flair and Special Customized Upholstery Variations



Optional Features



USB Application



Upward Folding Seat Cushion Metal Grap Handle

Option



Optional Features

Flat Backrest Foam Using Alternative



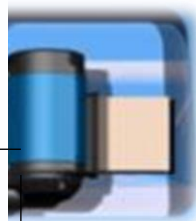
Orbis C0-Driver

M2

Midibus & Minibus

3P Automatic Safety Belt Running Inside Of The Backrest

The New Generation Security Method As «Basic Standard» For Our Respectable Clients



3P Safety belt retractor is placed inside of the headrest with direction kit.

3D automatic safety belt is running inside of the backrest. With this innovation , it is absolutely avoided of a touching and sounding matter notably when the 3D belts are placed on top of the backrest between the seats as you can see the illustration above.

Direction of the 3P safety belt can be changed for both sides.



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THANK YOU

Prepared by Teknotrim Sales & Marketing Department

