



Welcome to the World of Design



MÜHENDİSLİK / ENGINEERING



TKARE ENGINEERING



Welcome to the World of Design



PRESENTATION OF COMPANY INTRODUCTION

TKARE ENGINEERING

TKARE ENGINEERING
09.09.2025

TKARE ENGINEERING



Welcome to the World of Design

It is important
to see the future
when making decisions.



COMPANY PROFILE



Welcome to the World of Design



•ABOUT US

Our company; It was established in 2011 to provide design and engineering services to the Automotive, Home Appliances, Defense and Aviation sectors. Our goal as TKare Engineering is to provide fast, high-class, innovative and result-oriented solutions for our customers

OUR MISSION

In order to meet the demands and needs of our customers in the Automotive, Home Appliances, Defense and Aviation sectors, using all our knowledge and experience, to follow the developing technologies, to put them into practice and to offer them to our customers by establishing the necessary organizations. It is to deliver the product we produce with high quality, at an affordable cost, on time.

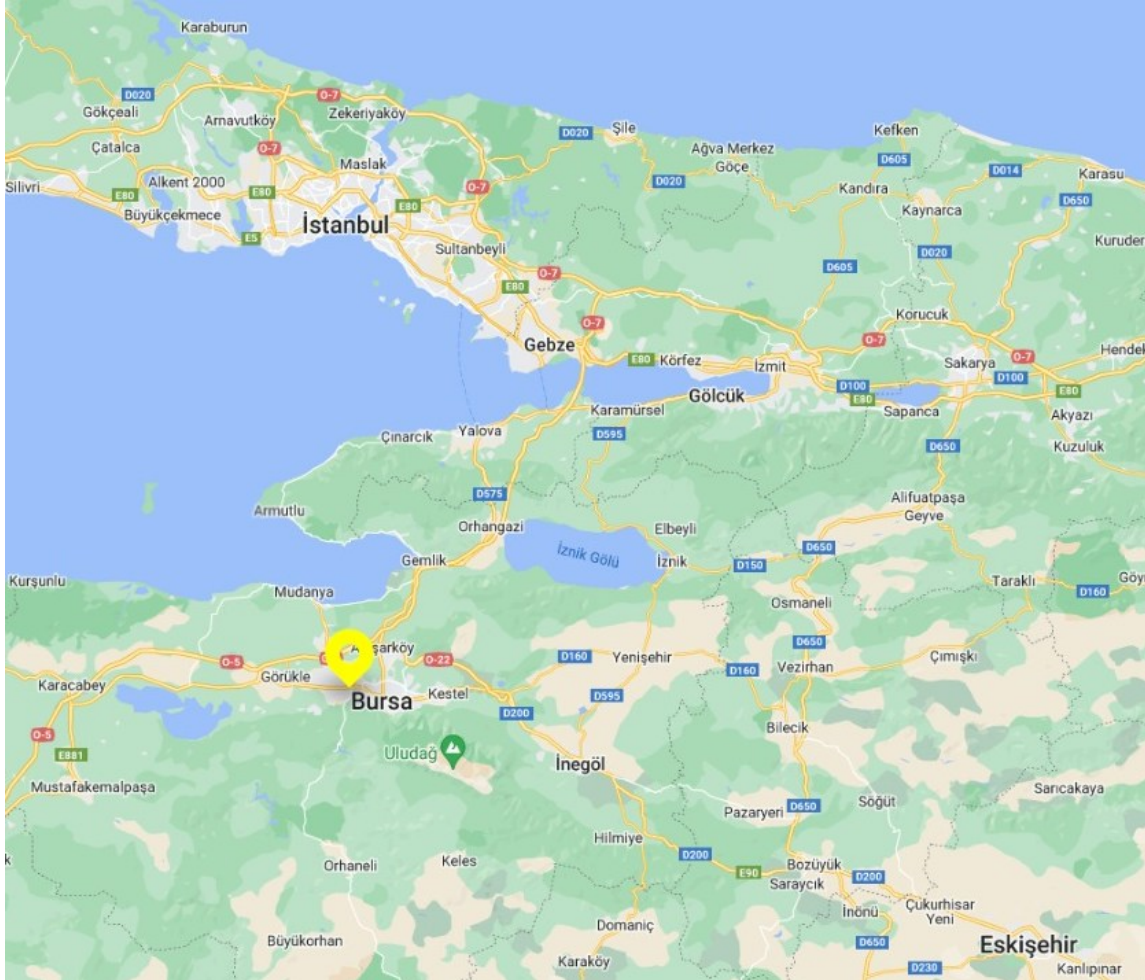
OUR VISION

To be the leading company in the Automotive, Home Appliances, Defense and Aviation sectors, producing fast, high quality and result-oriented solutions for its customers at every stage from product design to manufacturing, closely following the technology and producing the most accurate solutions for its customers.

WHERE WE ARE?



Welcome to the World of Design



OUR AWARDS



Welcome to the World of Design

2013



**2013 Kosgeb Turkey Entrepreneurs Awards
«Young Entrepreneurs» Category Turkey
Finalist**

OUR AWARDS



Welcome to the World of Design

2020

2020 R & D and Design Centers and technology development zones summit, 3rd in Turkey in employment of 15 and below design personnel.



2020 Arge ve Tasarım Merkezleri ile Teknoloji Geliştirme Bölgeleri Zirvesi, 15 ve altı tasarım personeli istihdamında Türkiye 3. sü

OUR PATENTS



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QUALITY MANAGEMENT



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SERTİFİKA



TKARE MAK. İNŞ. MÜH. MİM. SAN. TİC. LTD. ŞTİ

Konak Mah. 1.Badem Sok. No:26, Lotus Plaza B Blok Kat:7 Daire:85
16110 Nilüfer / Bursa
Türkiye

Şirketinin, aşağıda belirtilen geçerlilik alanında bir **Kalite Yönetim Sistemi**ni yürürlüğe koyduğunu ve uygulamakta olduğunu teyit eder.

Geçerlilik Alanı:
Endüstriyel Ürün Tasarımı, Mekanik Tasarım, Sac Metal Kalıp Tasarım ve Mühendislik Hizmetleri.

Raporla belgelenmiş bir yönetim sistemi tetkiki sonunda, bu yönetim sisteminin aşağıda belirtilen teknik spesifikasyonun şartlarını yerine getirdiği kanıtlanmıştır:

ISO 9001 : 2015

Sertifika kayıt No	31300202 QM15
Geçerlilik başlangıç tarihi	2023-01-10
Geçerlilik bitiş tarihi	2026-01-09
Sertifikalandırılmaya ilişkin kalite denetimi	2023-01-10



DQS GmbH

Markus Bieher

Markus Bieher
Şirket Müdürü

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schwarz-Straße 21, 69469 Frankfurt am Main, Germany
Administrative Office: DQS Denetim ve Belgelendirme Ltd. Şti., 19 Mayıs Mah. Sınan Ercan Cad.,
Paşa Korusu Sitesi No: 18/81 Blok, 34736 Kağıthane - İstanbul / Turkey
The validity of this certificate can only be verified by the QR-code.

INFORMATION SECURITY



Welcome to the World of Design



CERTIFICATE



This is to certify that

TKARE MAK. İNŞ. MÜH. MİM. SAN. TİC. LTD. ŞTİ

Konak Mah. 1. Badem Sok. No:26, Lotus Plaza B Blok Kat:7 Daire:85
16110 Nilüfer / Bursa
Türkiye

has implemented and maintains an **Information Security Management System**.

Scope:
Industrial Design, Mechanical Design, Sheet Metal Tool and Die Design, and Engineering Services for the Automotive, Home Appliances, Defense, Space and Aviation Sectors

Statement of applicability: BGYS/23.10.2024

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO / IEC 27001 : 2022

Certificate registration no. 31300202 ISMS22
Valid from 2024-01-18
Valid until 2027-01-17
Date of certification 2025-01-27



DQS GmbH

Christian Gerling

Christian Gerling
Managing Director

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
The validity of the certification can only be verified by the QR-code.

TKARE ENGINEERING
09.09.2025

OUR CERTIFICATE



Welcome to the World of Design

Great Place to Work-Sertifikasyonu™

Çalışanları için harika iş yeri
deneyimi sunan şirketlerden
biri olduğumuz için gururluyuz.



Great Place To Work®

Certified

MAR 2023-MAR 2024
TÜRKİYE

www.tkare.com.tr



#GPTWCertified



TKARE MÜHENDİSLİK

Great Place To Work® Certified
Mart 2023



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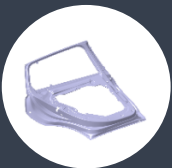
"In your projects, reliable, professional for a helping hand; TKARE Engineering"

Great Place To Work®
Certified
MAR 2023-MAR 2024
TÜRKİYE



01

- Product Design
- Feasibility & Simulations
- 3D Process / Method
- Die Design
- Tool & Die Kinematic Analysis



02

- Special Machine Designs
- Mass Production Machine Designs
- Apparatus & Fixture Designs



03

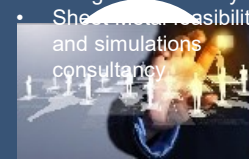
- Pam Stamp
(Sheet Metal forming simulations)
- BM-Stamp
(Sheet Metal forming simulations)
- Digisim Unlimited
(Transfer System Optimization and Simulations)
- Express Sur
(Sheet Metal tool & die kinematic analysis and transfer system simulations)



04

05

- Engineering Consultancy
- Project Management Consultancy
- Sheet Metal Product Design Consultancy
- Sheet Metal tool & die design Consultancy
- Sheet metal feasibility and simulations consultancy



06

SERVICES

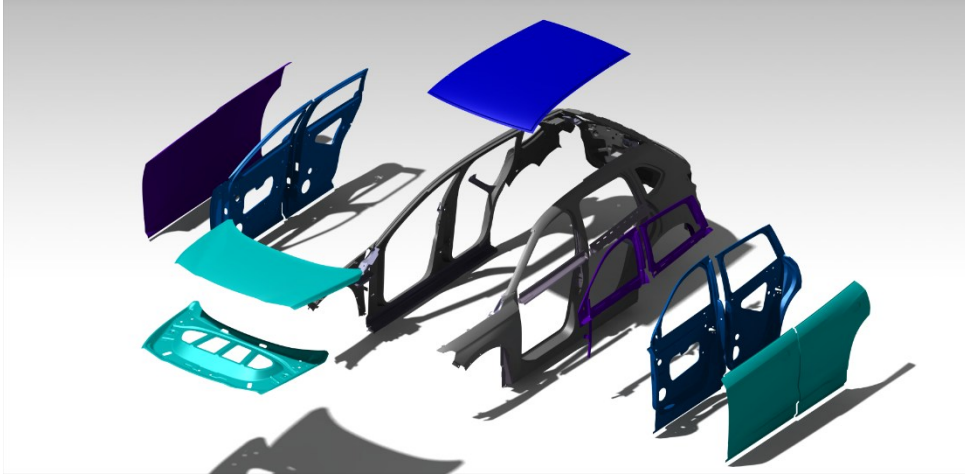


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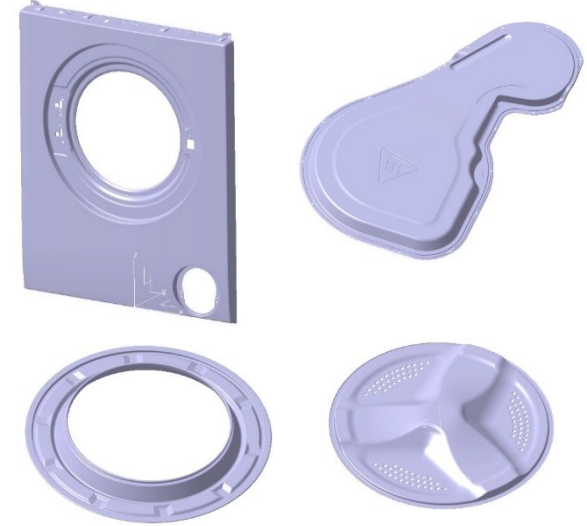
•Product Design

Design of functional, producible products with our experience in Sheet Metal sector.

Automotive



Home Appliance



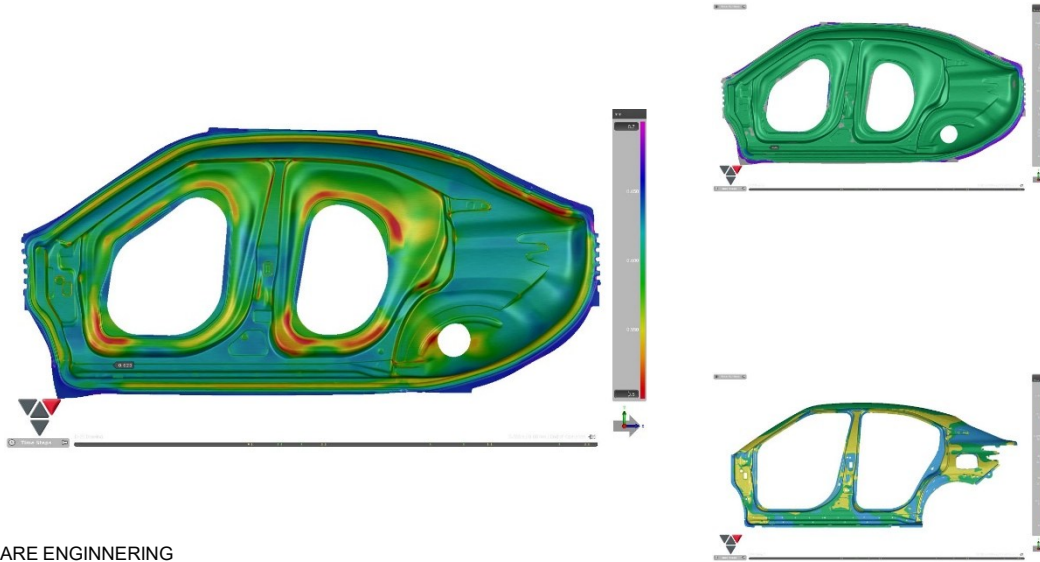
•Feasibility & Simulations

It's a very important step that the manufacturability of the product is analyzed, decreasing production time and labor in die design and production to an optimum level before starting die design. By doing virtual environment simulations, engineering softwares are used that directs fast die production with minimum costs in this process.

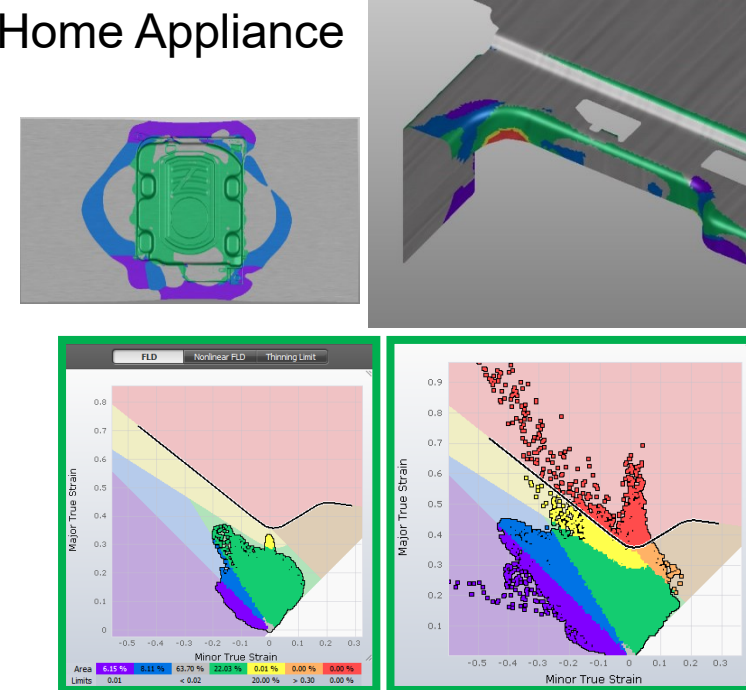
All work carried out are reported to our customers. After the simulations; the products in a desired level can be created in the very first part pressing by creating springback compensation surfaces if necessary.

"It's Important To See the Future While Making a Decision"

Automotive



Home Appliance



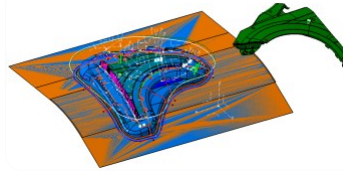
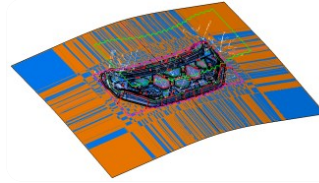
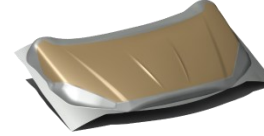
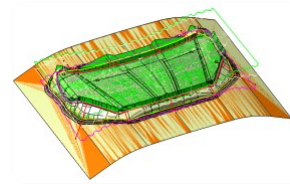
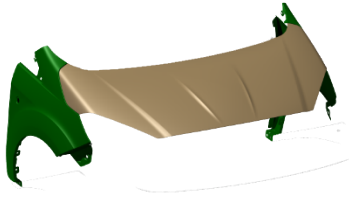
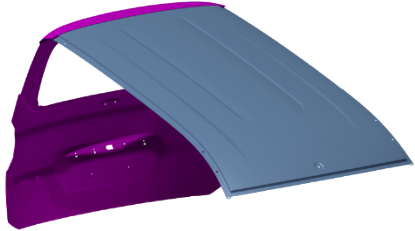
SERVICES



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•Process Design

“Correct Process, Correct Die Design.”



Full cycle process & methodplan simulations

SERVICES



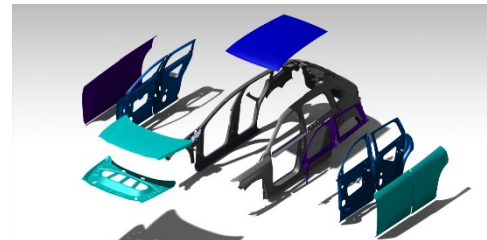
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•Feasibility & Simulations

Some examples of feasibility & simulations projects



FCA
FIAT CHRYSLER AUTOMOBILES



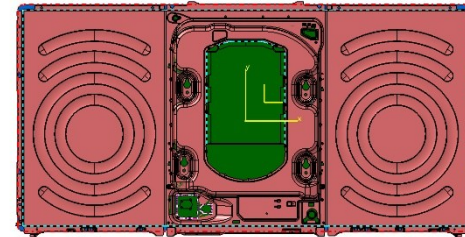
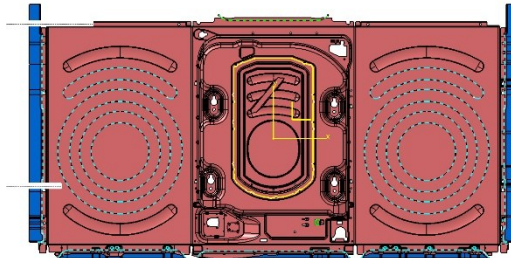
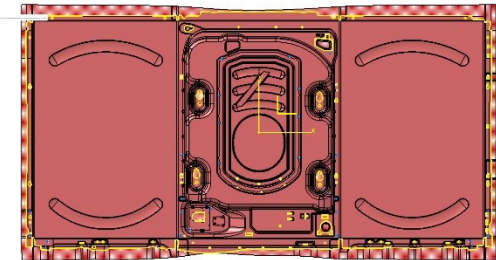
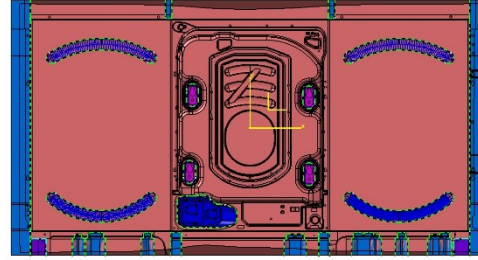
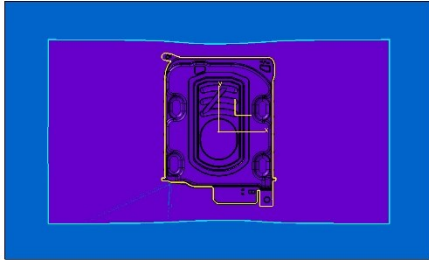
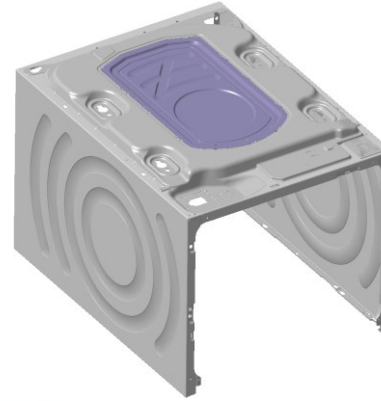
SERVICES



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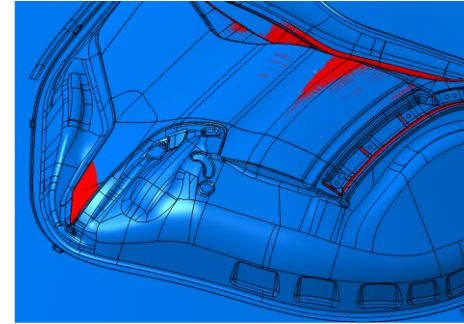
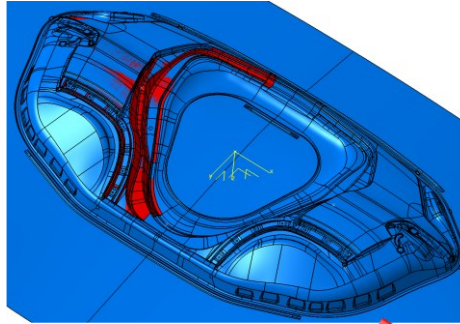
•Process Design (Home Appliances)

“Correct Process, Correct Die Design.”



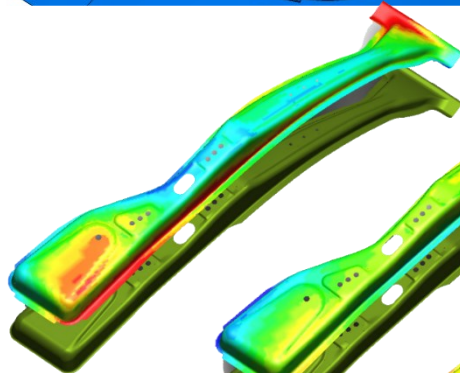
•Springback

After the simulations; the products in a desired level can be created in the very first part pressing by creating springback compensation surfaces if necessary.

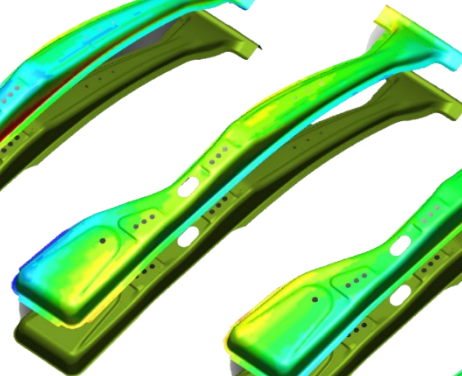


Original

Compansated



± 2.6 mm



± 1.6 mm



± 1.1 mm



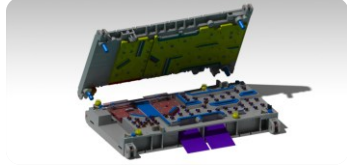
± 0.3 mm

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•DIE DESIGN

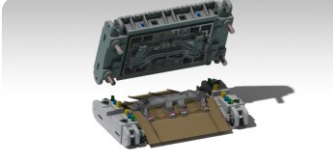
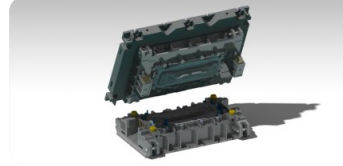


•Blanking Dies

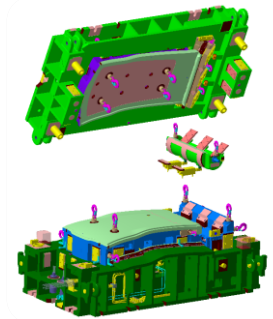


•Draw Dies

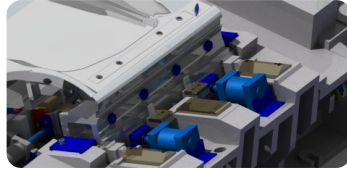
- Single Action Draw Dies
- Double Action Draw Dies



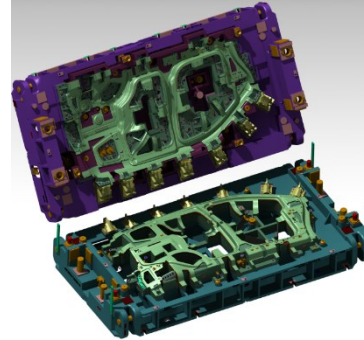
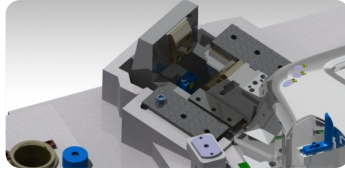
•Trim Dies



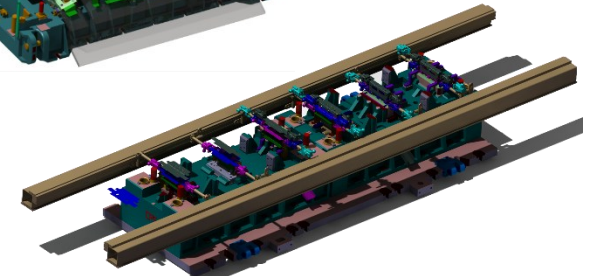
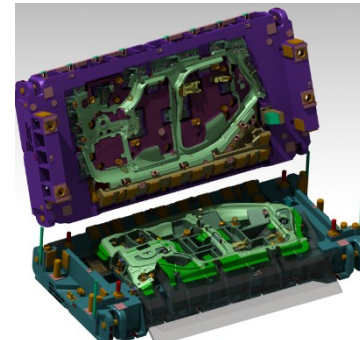
•Rotary Cam Units Dies



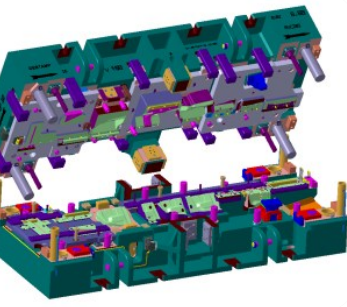
•Cam and Contra Cam Units Dies



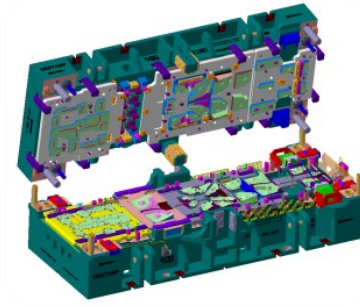
•Forming & Bending Dies



Transfer Dies



•Progressive Dies





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"Good Design, Trouble-Free Manufacturing"

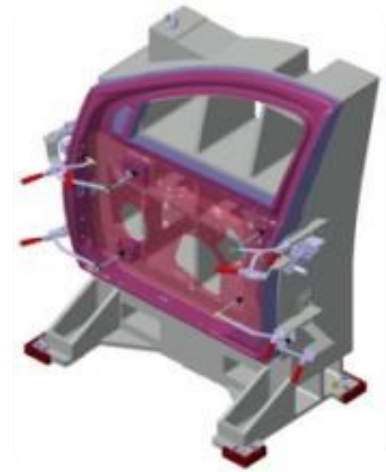
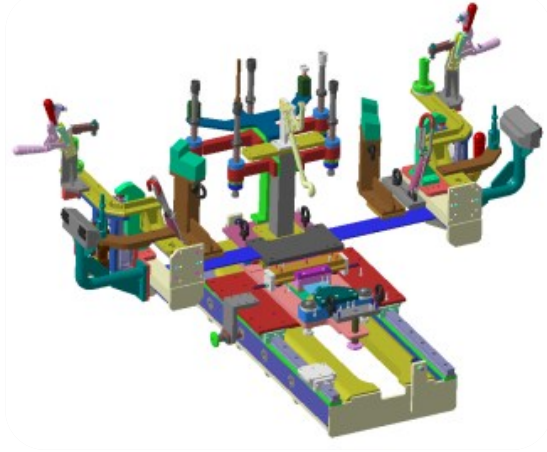
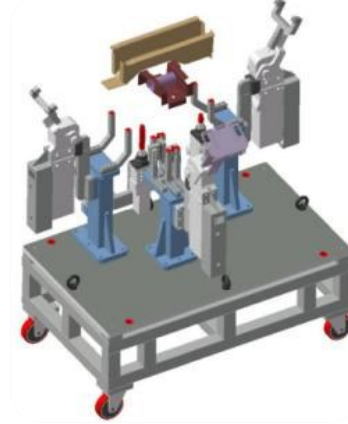
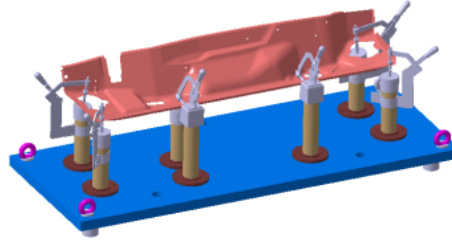
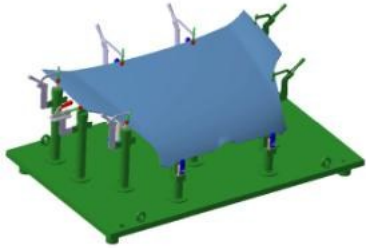
SERVICES



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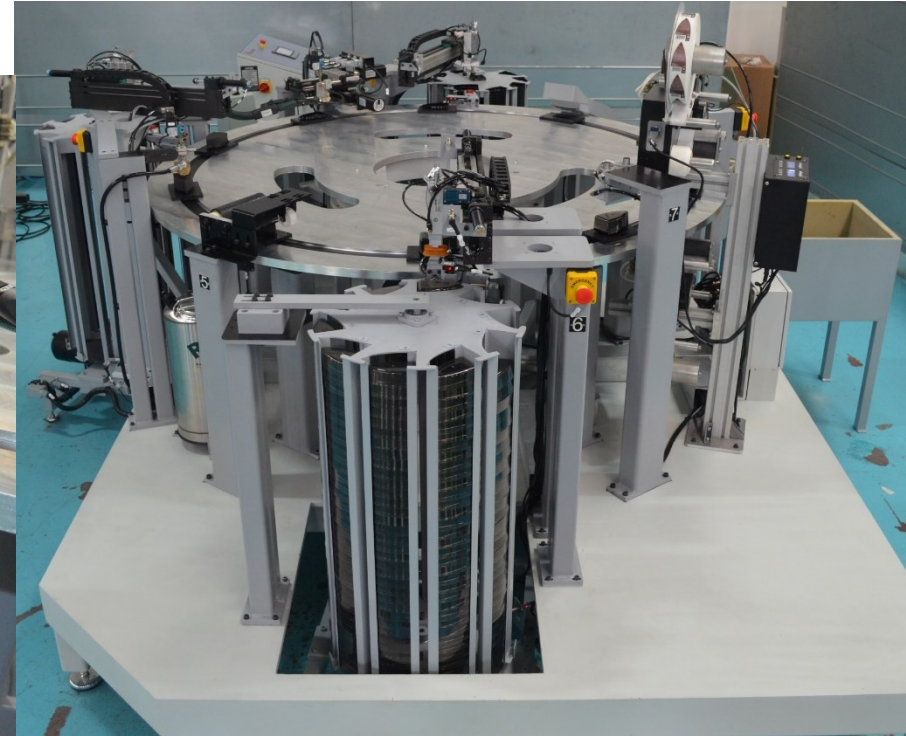
•Gauge and Fixtures Design

- Welding Gauges
- Mounting Gauges
- Testing Gauges
- Control Fixtures



•Machine Design and Production

TKare Engineering; is providing service in “Machine Design and “Machine Manufacturing” special for your company. The company designs and manufactures turnkey machines from design to manufacture in special machinery.



•Software



Expressus (Die Kinematics)

Turkey Distributor

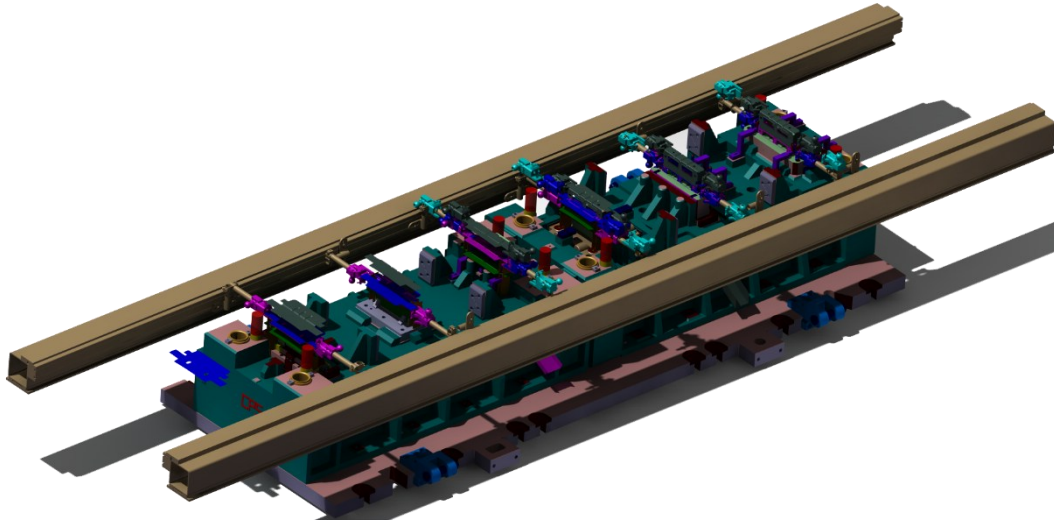
Tkare Engineering has become the only dealer of Japanese Die Kinematics program "EXPRESSUS" software since April 2014.

Thanks to Expressus;

During design phase; the under press kinematic simulation of dies has being done, we can analyze if there is any interference or faulty operating status. If it's asked press synchronization with the die can be installed and you can simulate transfer and cross bar applications. This means that during the design, you can be sure your die is working properly and you can start manufacturing process.

You can stop the simulation in a desired point of kinematic simulation, you can section from anywhere you would like and you can make measurements, initiations between die instruments or you can analyze the connection between die instruments.

During the simulation of transfer dies, you can determine the reflections of press speed to your die and you can confirm part production in optimum speed even during design phase.



SERVICES



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•Software

ANDRITZ

SIMULATION TOOL METRIS DIGISIM FOR EASY OPTIMIZATION OF STROKE RATES

Software tools from ANDRITZ make it possible to optimize production parameters of the press, transfer and coil feed on external computer workstations – offline while the machine remains in production. ANDRITZ software tools also provide valuable help when it comes to designing new dies and production planning. See for yourself:

YOUR BENEFITS

Metris DigiSim delivers ANDRITZ know-how to upgrade your OEE

Benefits and features

- Reliable OEE optimization due to optimal simulation models
- High productivity, even with small batch sizes and frequent die changes
- Less unscheduled downtime due to safe simulated forming processes
- Simple interference analysis in the kinematic press model
- Quick check of additional movement during part transportation
- Guided user operation and profile creation for quick and reliable press setup
- CAD-neutral simulation environment
- Die data can be efficiently prepared, optimized, and managed offline
- Low wear and high functionality, of dies as a result of die-design optimization starting in the design stage itself

Delivery

When purchased with a system: no earlier than one week after operational handover
For retrofits: approximately 3 weeks after order placement



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09.09.2025

SERVICES

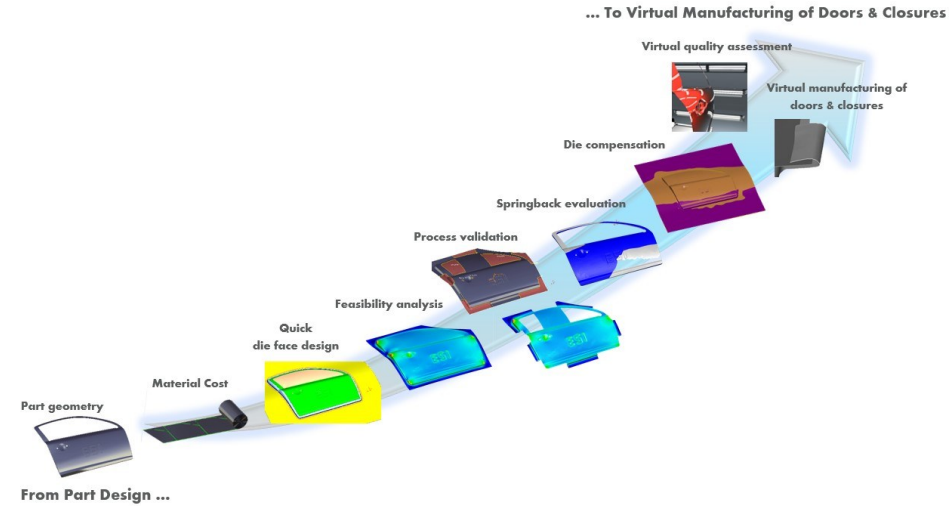


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•Software



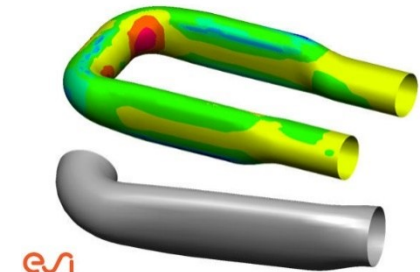
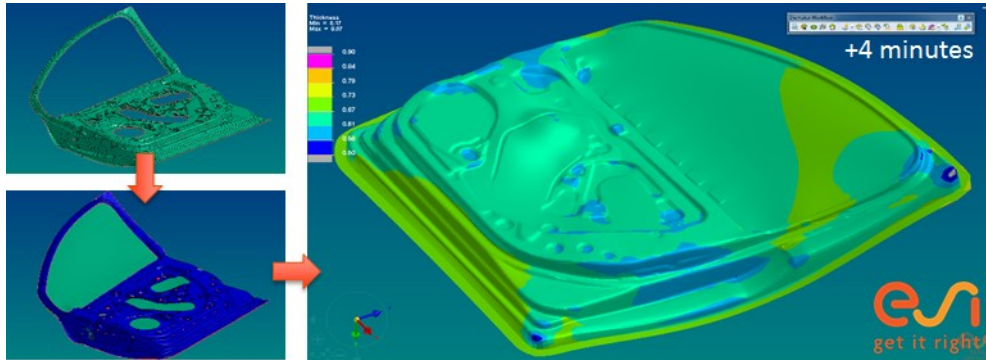
PAM-STAMP



Tkare Engineering is the distributor for Pam Stamp software in Turkey.

From Design/Concept to Try-out

For any given metal forming process, it is possible today to conceive everything in a virtual engineering equivalent - from detailing customer requests to virtually inspecting the final product, as well as setting-up the production facilities. This includes material cost estimation, die design and feasibility, part design validation and tooling design and forming processes.



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09.09.2025

•Software

esi BM-Stamp

Automotive Stamping Simulation Software

Tkare Engineering is the distributor for BM-Stamp software in Türkiye.

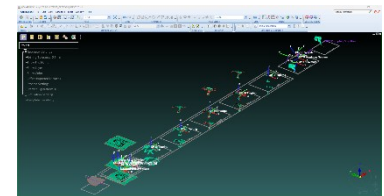
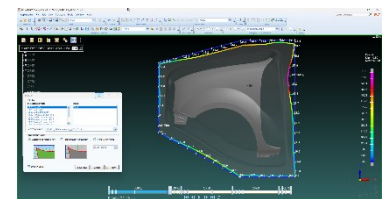
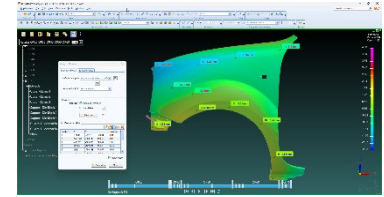
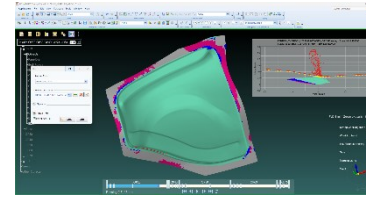
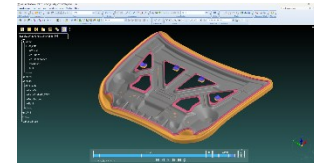
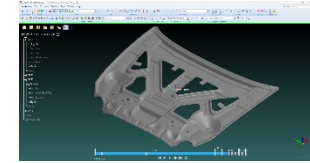
BM-Stamp: The Smart Choice for Automotive Stamping

Predicting part quality early in automotive manufacturing is crucial because relying on physical tryouts can be costly and time-consuming when unexpected defects occur and need to be corrected at this late phase in the engineering cycle.

Body Manufacturing-Stamp (BM-Stamp) from ESI is a cost-attractive simulation solution that empowers automotive part manufacturers to optimize their stamping processes, reducing the reliance on physical prototypes, and improving the precision and quality of manufactured parts from early on in their project lifecycle.

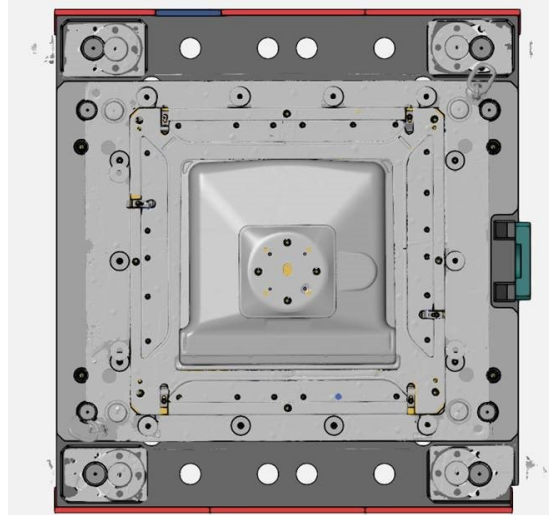
BM-Stamp provides an extremely easy-to-use graphical interface enabling precise stamping validation for all automotive materials without requiring engineers to have FEM or other numerical expertise, enabling highly predictive formability, accuracy, and aesthetic results in a consistent manner.

Recognized as a trusted engineering partner, ESI delivers precise validation for engineers to consistently achieve top simulation results, and as a consequence reduce overall costs, and accelerate production timelines.

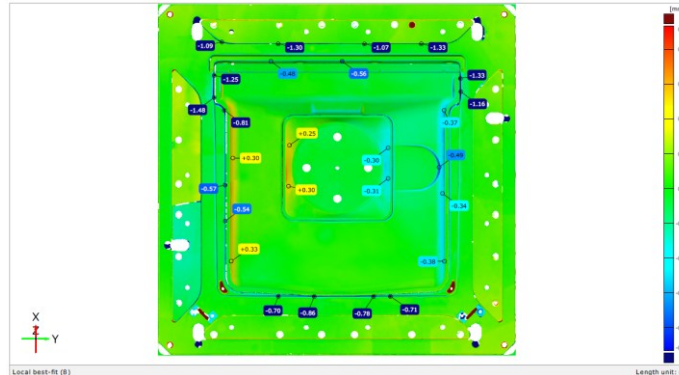


•Reverse Engineering

We are able to offer different services to our customers, especially with this method we use in the process verification phase.

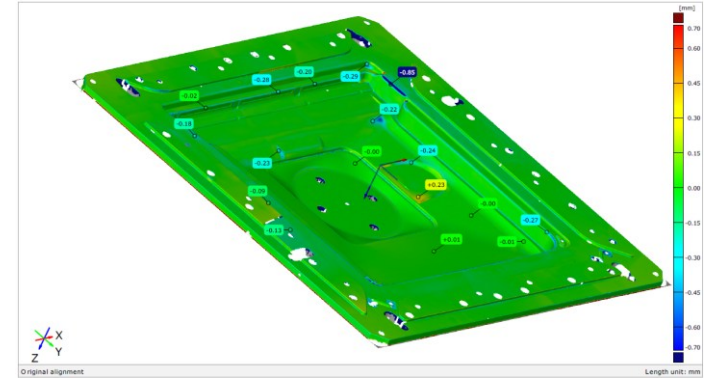


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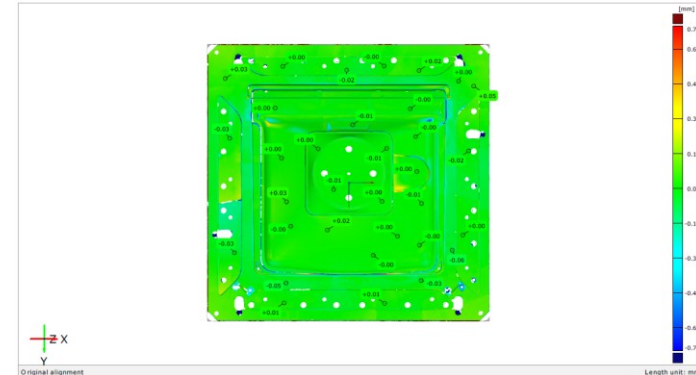
Length unit: mm

004

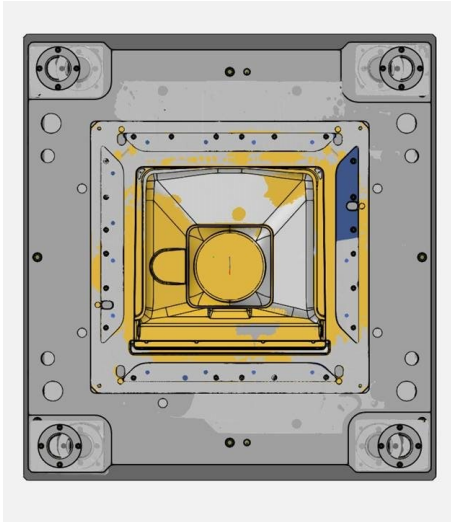


Length unit: mm

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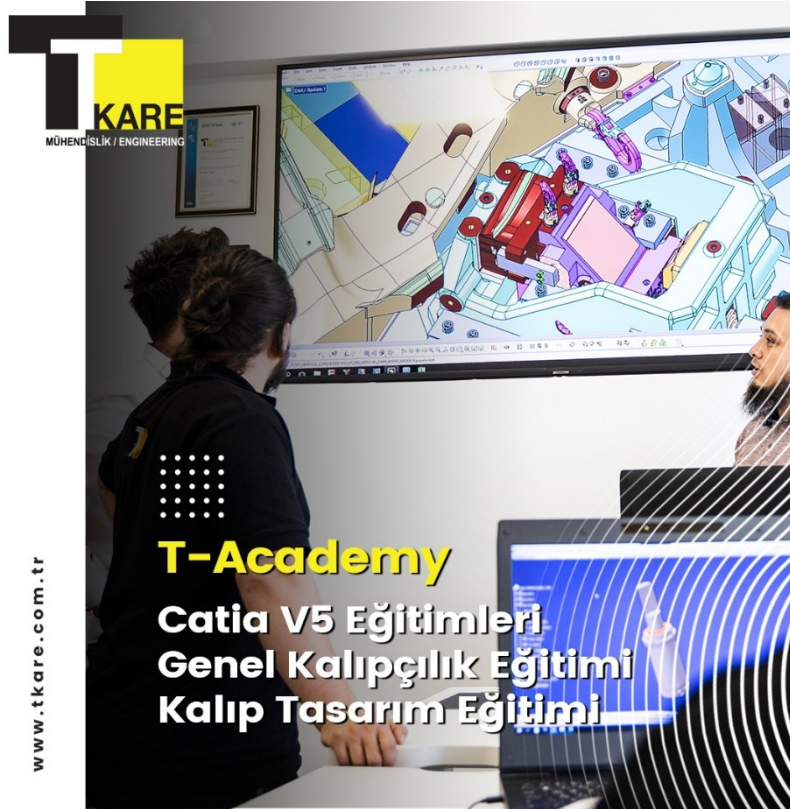


Length unit: mm



•T-ACADEMY

www.t-academy.com.tr



Training & Consultancy

- Catia V5 Training
- Tool & Die Training
 - Conventional tool&die training
 - Progressive Die design Training
 - Transfer Dies training
- Die Design Training
- 3D Process Training
- Sheet Metal Forming Simulation Training
 - Autoform R8
 - Pam Stamp 2021
- Parametric Die Design Training on Catia V5
- Ford Motor Company / Stamping Tools & Powertools Training
- Kinematic Simulation on Expressus

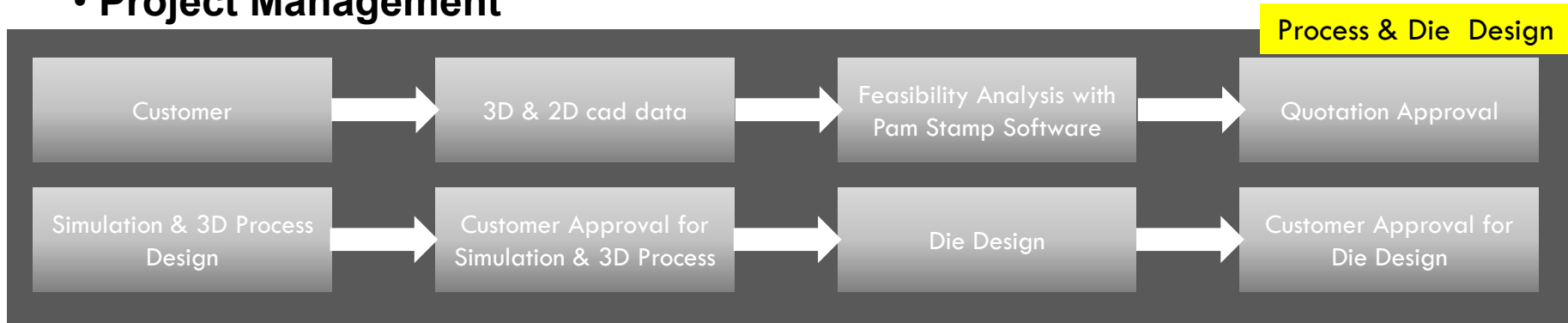
T-ACADEMY

PROJECT MANAGEMENT

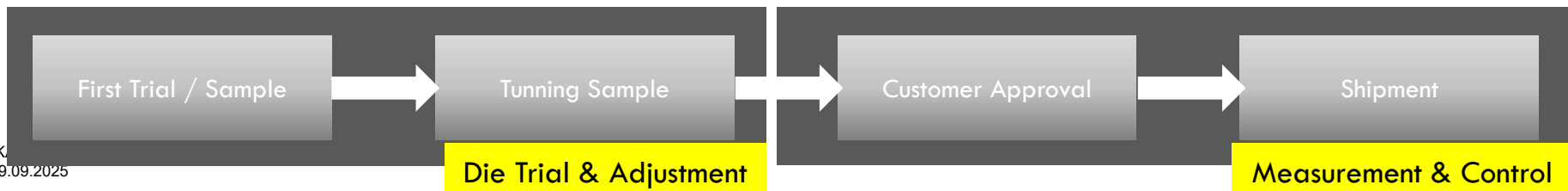
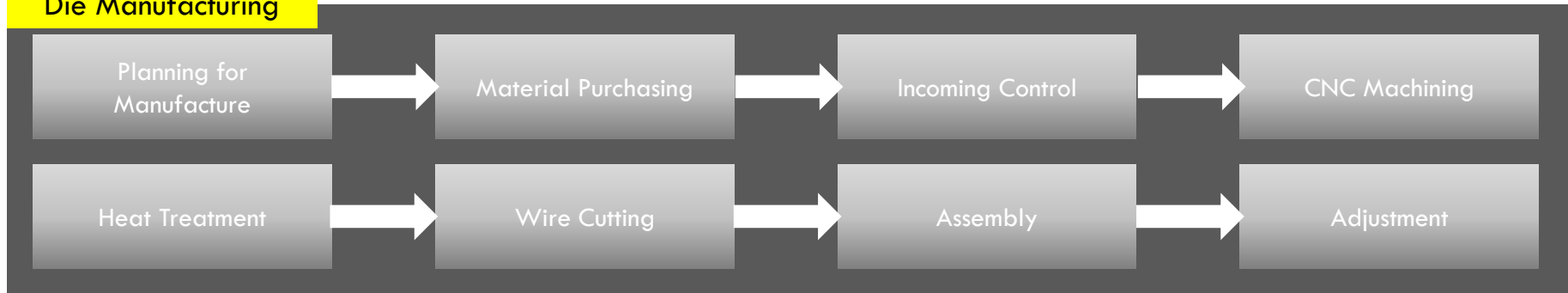


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• Project Management



Die Manufacturing



PROJECT MANAGEMENT



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ORGANIZATION CHART

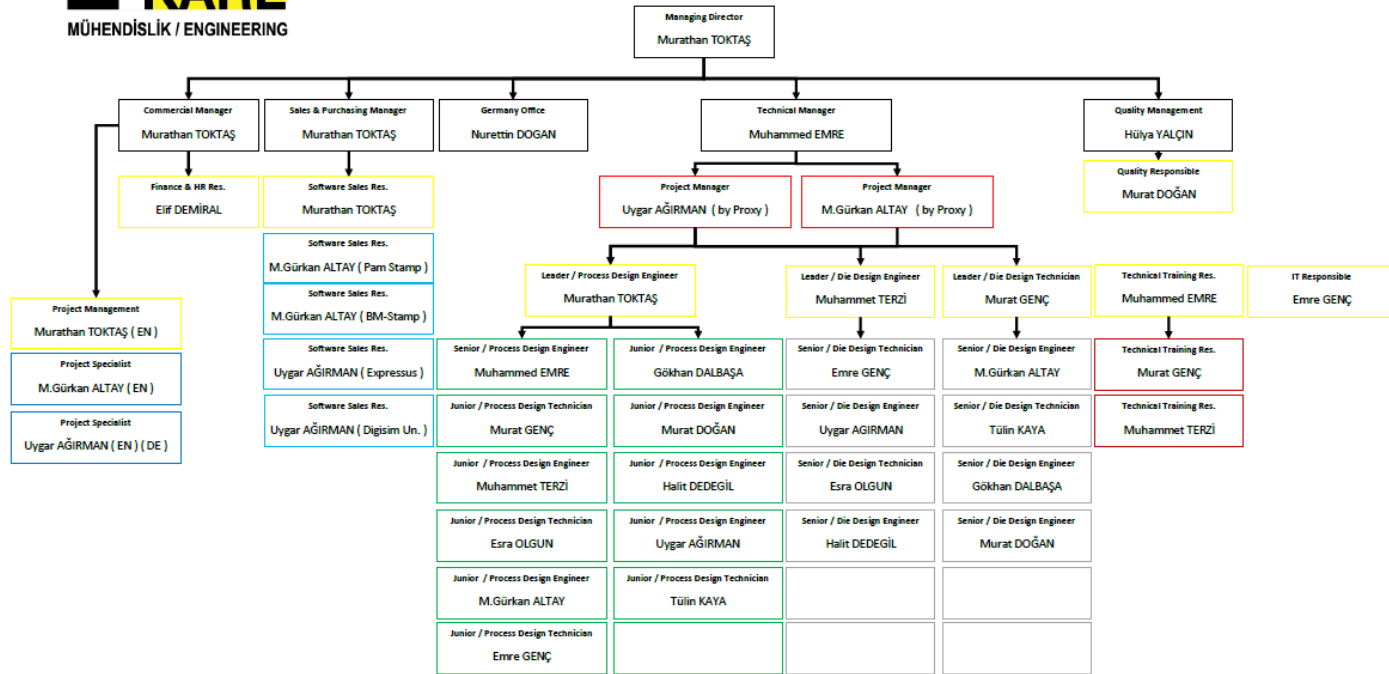


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TKARE ENGINEERING ORGANIZATION CHART

Release Date : 21.04.2025



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TKARE ENGINEERING
09.09.2025



GREAT TEAM



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13TH YEARS



TKARE ENGINEERING
09.09.2025

OUR CAPACITY



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Process & Simulation : ***2.400 hours per month***

Tool & Die Design : ***2.600 hours per month***

Project Management : ***600 hours per month***

DESIGN EXPORT TO...



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COUNTRIES WE EXPORT DESIGN AND ENGINEERING



USA



GERMANY



ENGLAND



FRANCE



ITALY



SPAIN



HUNGARY



SLOVAKIA

OUR SOFTWARES



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Cad Softwares

esi BM-Stamp

esi PAM-STAMP

AUTOFORM
Forming Reality

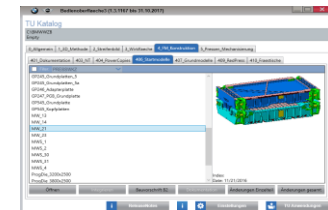
Forming Simulations
Softwares



Kinematic Analysis
Software
(Tool and transfer
system analysis)



FORD MOTOR COMPANY
"POWERTOOLS"



BMW
"CARISMA"

TRADEMARK



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Marka Sahibi : T KARE MAKİNE İNŞAAT MÜHENDİSLİK MİMARLIK SANAYİ VE TİCARET LİMİTED
ŞİRKETİ
TÜRKİYE CUMHURİYETİ
KONAK MAH. L.BADEM SK. 26 B 85 Nilüfer Bursa

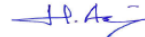
Emtiası : 42

Bilimsel ve snai inceleme, araştırma hizmetleri; mühendislik hizmetleri.
Bilgisayar hizmetleri.

Bu sınıfa dahil olup mühendislik, mimarlık, bilgisayar hizmetleri
kapsamına girmeyen her türlü tasarım hizmetleri; grafik sanat tasarım
hizmetleri.

Sanat eserleri orijinallik onay hizmetleri.

İşbu Marka ilk defa 01/12/2011 tarihinde tescil edilmiş
olup, 01/12/2021 tarihinden itibaren ON YIL süreyle yenilenmiştir.


Prof. Dr. Habip ASAN
Türk Patent ve Marka
Kurumu Başkanı

**TÜRK
PATENT**

REFERENCES



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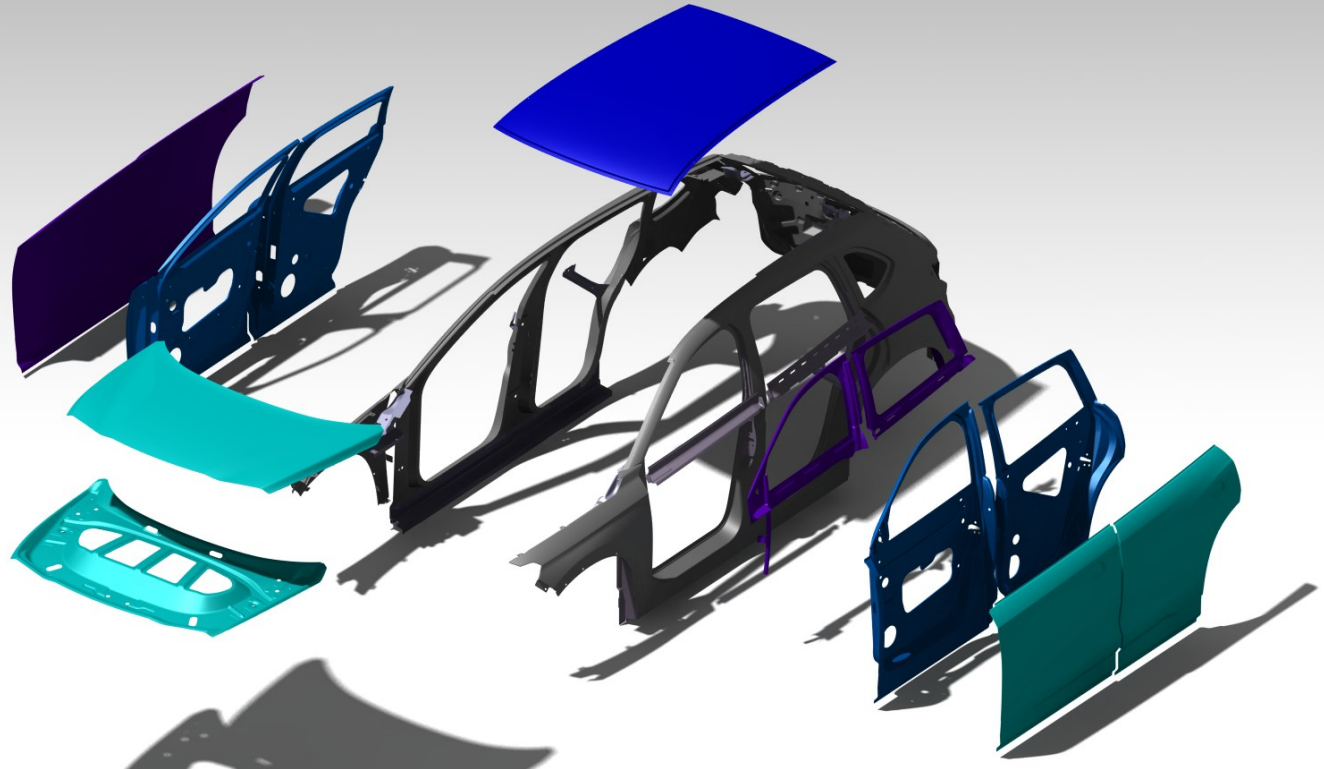
Domestic Car / Turkish Brand



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- Hood Outer
- Hood Inner
- Roof
- Panoramic Roof
- Front Door Inner
- Front Door Outer
- Back Door Inner
- Back Door Outer
- Front Door Frame
- Back Door Frame
- And others

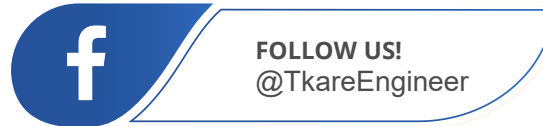
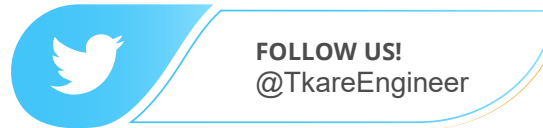
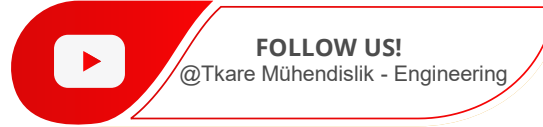
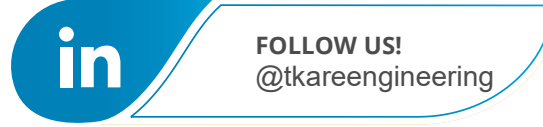


From feasibility to die design

Social Medias



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THANK YOU

ULM
DEUTCHLAND

BURSA
TURKEY

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