

# Company Presentation

14.09.2019



# AT A GLANCE

A family owned business.  
Second generation in charge.

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**Management** Mr. Oğuzhan Arslan  
Man. Director (Ind. Eng.)

Mr. Kaan Arslan  
Man. Partner (Economics)

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**Head of Finance** Mr. Saruhan Arslan  
(BA)

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**Tech. Manager** Mr. Murat Arslan  
(Mech. Engineer)

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**10** NUMBER OF ENGINEERS

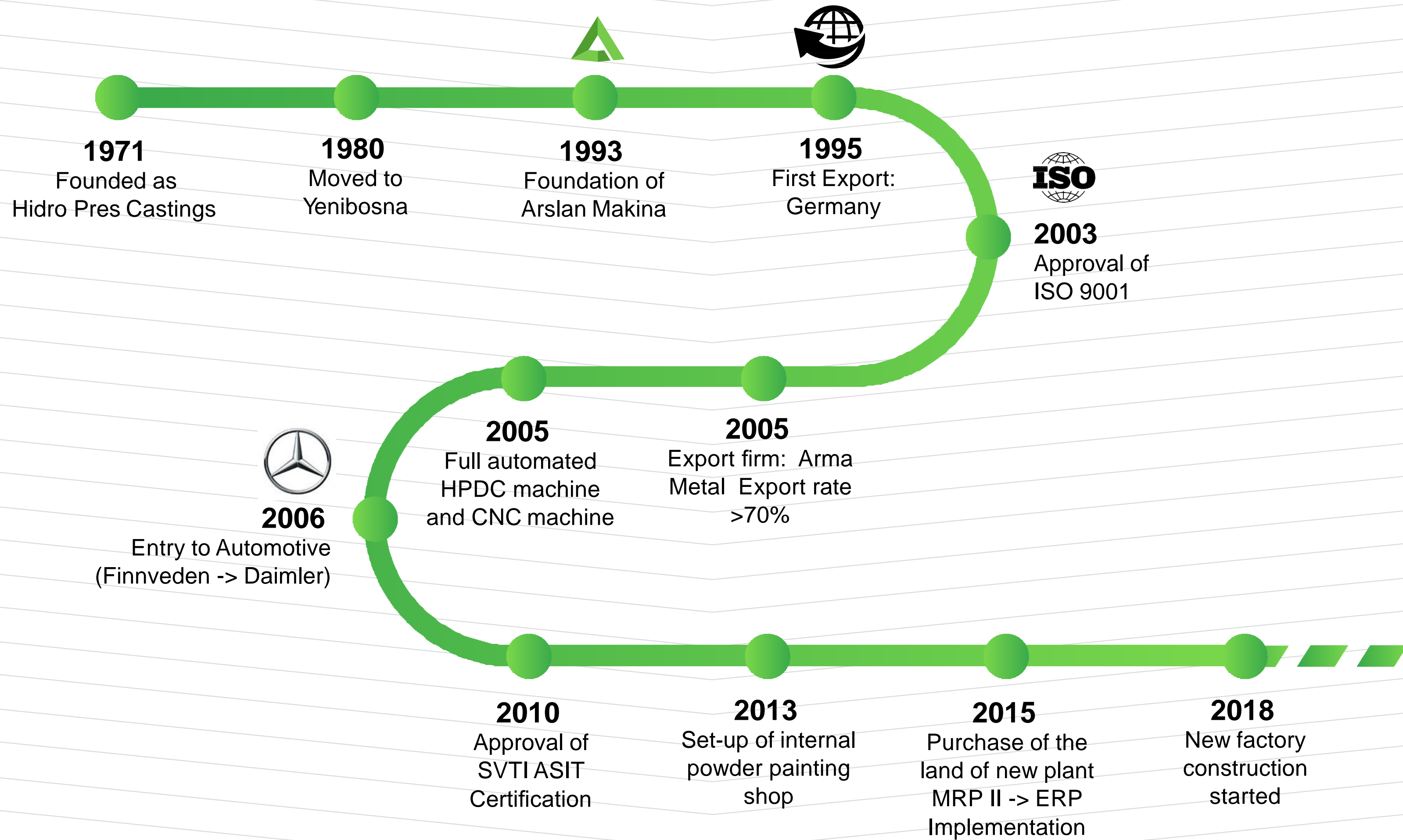


**86** NUMBER OF EMPLOYEES  
24 White / 62 Blue



**2700** M2 TOTAL CLOSED AREA

# MILESTONES



# PRODUCTION GENERAL OVERVIEW

**ALU DIE  
CASTING**



**CNC  
MACHINING**



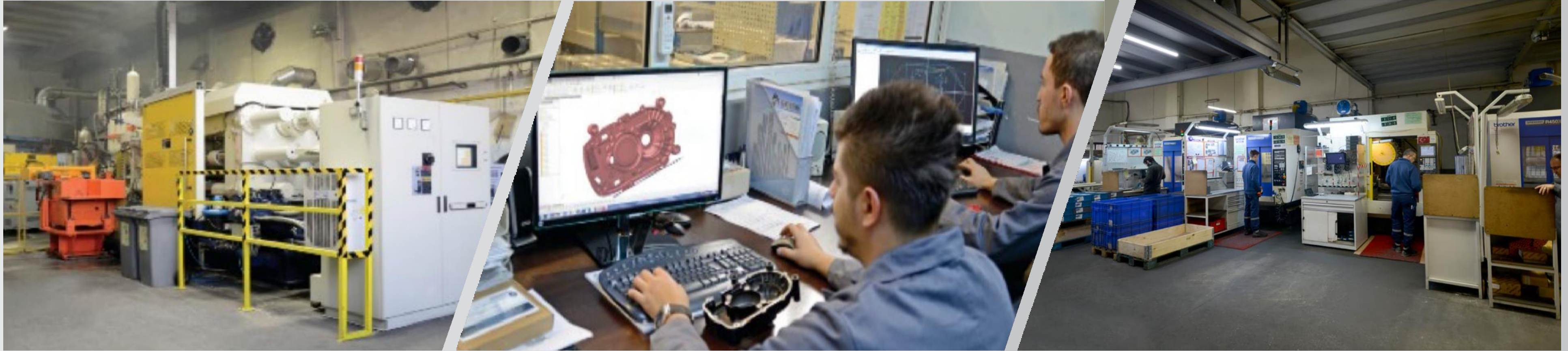
**POWDER  
PAINTINGS**



**TOOL &  
FIXTURE DESIGN**



# CAPACITY/CAPABILITY INFORMATION



## Die Casting

Pressure die castings in aluminium & zinc from 20g to 6kg

Aluminium gravity die castings up to 15kg

## Tool & Fixture Productions

Pressure & gravity die castings & trimming tool production

CAD Software => Solidworks  
| CAM Software => ESPRIT

Tooling flow simulations



## CNC Machining

4 axis precise milling, turning operations

# CAPACITY/CAPABILITY INFORMATION



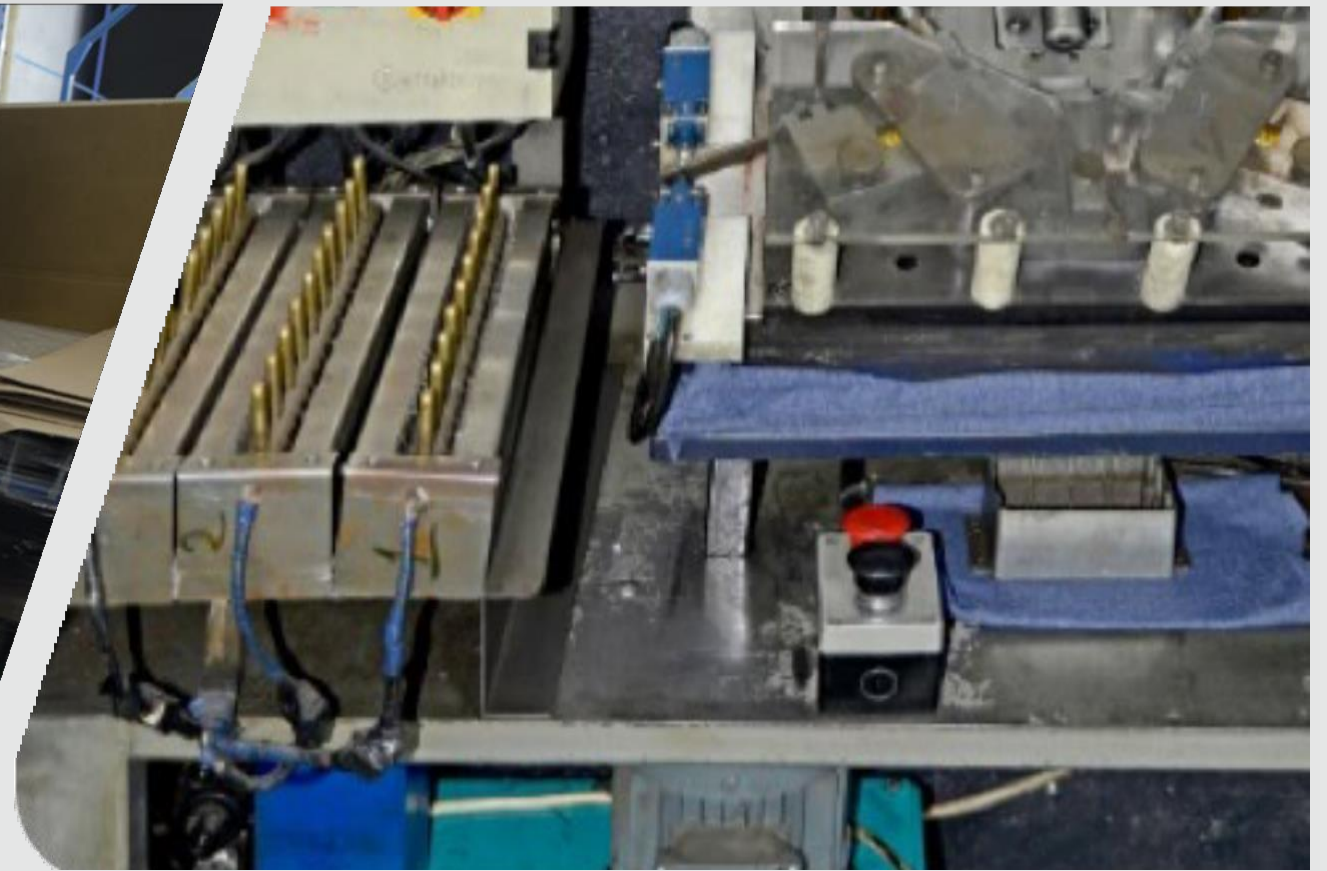
## Powder Paintings

Multi color powder paint shop



## Assembly

Assembly of the components, helicoil inserting etc



## Custom Made Equipment

Custom made equipment can be made according to specific requirements.

# / CAPACITY/CAPABILITY INFORMATION



## MRP => ERP + BI

Implementation completed for new ERP system.



## Quality / Project

PPAP, APQP, SPC, FMEA, 8D studies can be handled for Automotive customers.



## Export Experience

We are exporting products to various European countries since 1995.

**bilişimERP®**

Power BI

# ALLOY TYPES & RELATED COLOR CODES

ARSLAN		HAMMADDE RENK KODLARI ALLOY TYPES AND RELATED COLOR CODES			
		KODU CODE	RENKLER / COLORS	EURO NORM	EN 1706
A L U M I N I Y U M	A 140	SARI YELLOW	SARI YELLOW	EN AC Al Si12(b)	EN AC 44100
	A 145	SARI YELLOW	KIRMIZI RED	EN AC Al Si12 Cu Ni Mg	EN AC 48000
	A 150	MAVİ BLUE	YEŞİL GREEN	ETİ NORM	E-150
	A 160	YEŞİL GREEN	YEŞİL GREEN	EN AC Al Si9 Cu3(Fe)	EN AC 46000
	A 171	MAVİ BLUE	SİYAH BLACK	EN AC Al Si10 Mg(Fe)	EN AC 43400
	A 177	YEŞİL GREEN	KIRMIZI RED	EN AC Al Si7 Mg0,3	EN AC 42100
	A 231	SARI YELLOW	YEŞİL GREEN	EN AC Al Si12(Cu)	EN AC 47000
ZAMAK	Z 005	BEYAZ WHITE	SİYAH BLACK	Zn Al4 Cu1	Z-005

PARÇA KODLARI / PART CODES	
XX YY ZZZZ PP	YARDIMCI AÇIKLAMA (Paketleme vb. Yardımcı bilgiler) EXTENSION DESCRIPTIONS (Packing, etc.)
	HAMMADDE CİNSİ (A140 , Z005 gibi) RAW MATERIAL (A140 , Z005 etc.)
	ÜRÜN SIRA NUMARASI (01,02,03.....,99) PART CODE (01,02,03.....,99)
	MÜŞTERİ SIRA NUMARASI (01,02,03.....,99) CUSTOMER CODE (01,02,03.....,99)



# REFERENCES

AUTOMATION

ENERGY

AUTOMOTIVE

HYDRAULICS

AIR SYSTEMS

INDUSTRIAL

CASTING

LIGHTNING

DRIVE TECH.

TELECOM

ELECTRONIC

FRANCE

SWITZERLAND

ITALY

GERMANY

CZECHIA

HUNGARY

TURKEY

CHINA

# CERTIFICATES



**TUV NORD**

## CERTIFICATE

Management system as per  
ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that:

**ARSLAN**  
Makina Döküm Ticaret

**Arslan Makina Döküm San. ve Tic. Ltd. Şti**  
Yenibosna Merkez Mah., Prof. Dr. M.Nevzat Pisak Cad., No 4/14,  
İç Kapı No 14-16-18, Bahçelievler,  
TR-34197 İstanbul,  
Turkey  
with the location Yenibosna Merkez Mah., Prof. Dr. M.Nevzat Pisak Cad., No 4/6, İç Kapı No 15, Bahçelievler,  
TR-34197 İstanbul, Turkey  
applies a management system in line with the above standard for the following scope:

**Pressurized and gravity casting, machining and painting of light alloyed parts for automotive and other industries**

Certificate Registration No. 44 100 15530017  
Audit Report No. TR 1597

Valid from 2018-06-25  
Valid until 2021-06-24  
Initial certification 2015

Certification Body  
at TÜV NORD CERT GmbH  
Istanbul, 2018-06-05

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH    Langemarckstraße 20    45141 Essen    www.tuv-nord-cert.com

**DAkkS**  
Deutsche  
Akreditierungsstelle  
D-24120 Kiel 01 01



**SVTI ASIT**

KESSELINSPEKTORAT  
INSPECTION DES CHAUDIÈRES

## Agreement

The Pressure Vessel Inspectorate of the SVTI, as an accredited public administrative body for the assessment of conformity of law and for the safety of pressure vessels and pressure equipment authorizes:

**ARSLAN Makina Döküm San.ve TIC. Ltd. Şti.**  
Doğu Sanayi Sit. 14 Blok No. 16  
TR-34570 Yenibosna - Istanbul

to the licensing for manufacturing and testing of spring loaded pressure relief device objects according to the SVTI prescription, specification 603 and 704 for gas insulated switchgear, components and transmission lines for the factory

**ARSLAN Makina Döküm San.ve TIC. Ltd. Şti.**  
Doğu Sanayi Sit. 14 Blok No. 16  
TR-34570 Yenibosna - Istanbul

The range of application is specified in the annex of the agreement Nr. KIS.PQ.5509888.

The licence has a validity of 3 years. For extension an application has to be requested.

Valid until  
**29.11.2019**

Agreement Nr.  
**KIS.VZ.5509888**

Waltissen, 08.12.2016

Head of Equipment Technology  
*Felix Heer*  
Felix Heer

The Supervisor  
*W. Helling*  
Wolfgang Helling



**TUV NORD**

## CERTIFICATE

Management system as per  
ISO 9001 : 2015

In accordance with TÜV Teknik Kontrol ve Belgelendirme A.Ş. procedures, it is hereby certified that:

**ARSLAN**  
Makina Döküm Ticaret

**Arslan Makina Döküm San. ve Tic. Ltd. Şti**  
Yenibosna Merkez Mah., Prof. Dr. M.Nevzat Pisak Cad., No 4/14,  
İç Kapı No 14-16-18, Bahçelievler,  
TR-34197 İstanbul,  
Turkey  
with the location Yenibosna Merkez Mah., Prof. Dr. M.Nevzat Pisak Cad., No 4/6, İç Kapı No 15, Bahçelievler,  
TR-34197 İstanbul, Turkey  
applies a management system in line with the above standard for the following scope:

**Pressurized and gravity casting, machining and painting of light alloyed parts for automotive and other industries**

Certificate Registration No. 1001318  
Audit Report No. TR 1597

Valid from 2018-06-25  
Valid until 2021-06-24  
Initial certification 2015

Certification Body  
at TÜV Teknik Kontrol ve Belgelendirme A.Ş.  
Istanbul, 2018-06-05

The certificate remains valid until the above stated date if and only if there is an uninterrupted compliance with the requirements of the standard and certification contract. The certificate inquiry can be done by reading the square code generated by TSDS on mobile devices or by using TSDS Document number from <https://tds.turkak.org.tr>

TURKAK BGS NO  
YS-427A-AB03

**TURKAK**  
TÜRK AKK  
KALIN TIRMAN SİSTEMİ  
18 İY 2015 1784  
AR-000378

TÜV Teknik Kontrol ve Belgelendirme A.Ş.  
Ayazmaderne Cad., Pazar Sok., Barış Plaza  
No 2-4, Kat 4, Gayrettepe, Beşiktaş,  
TR-34349 İstanbul  
www.tuv-turkey.com | tuv-nord@tuv-turkey.com

# TEST CAPABILITIES

Dimensional Inspection - Mitutoyo Crysta 3D CMM

Porosity Level Test – Stereo Microscope

Coating Thickness Test

Chemical Analysis - WAS Spektrometer

Hardness Test - Affri Hardness Tester

X-Ray Inspection- YXLON – 225Kv – MU 2000 (2018)

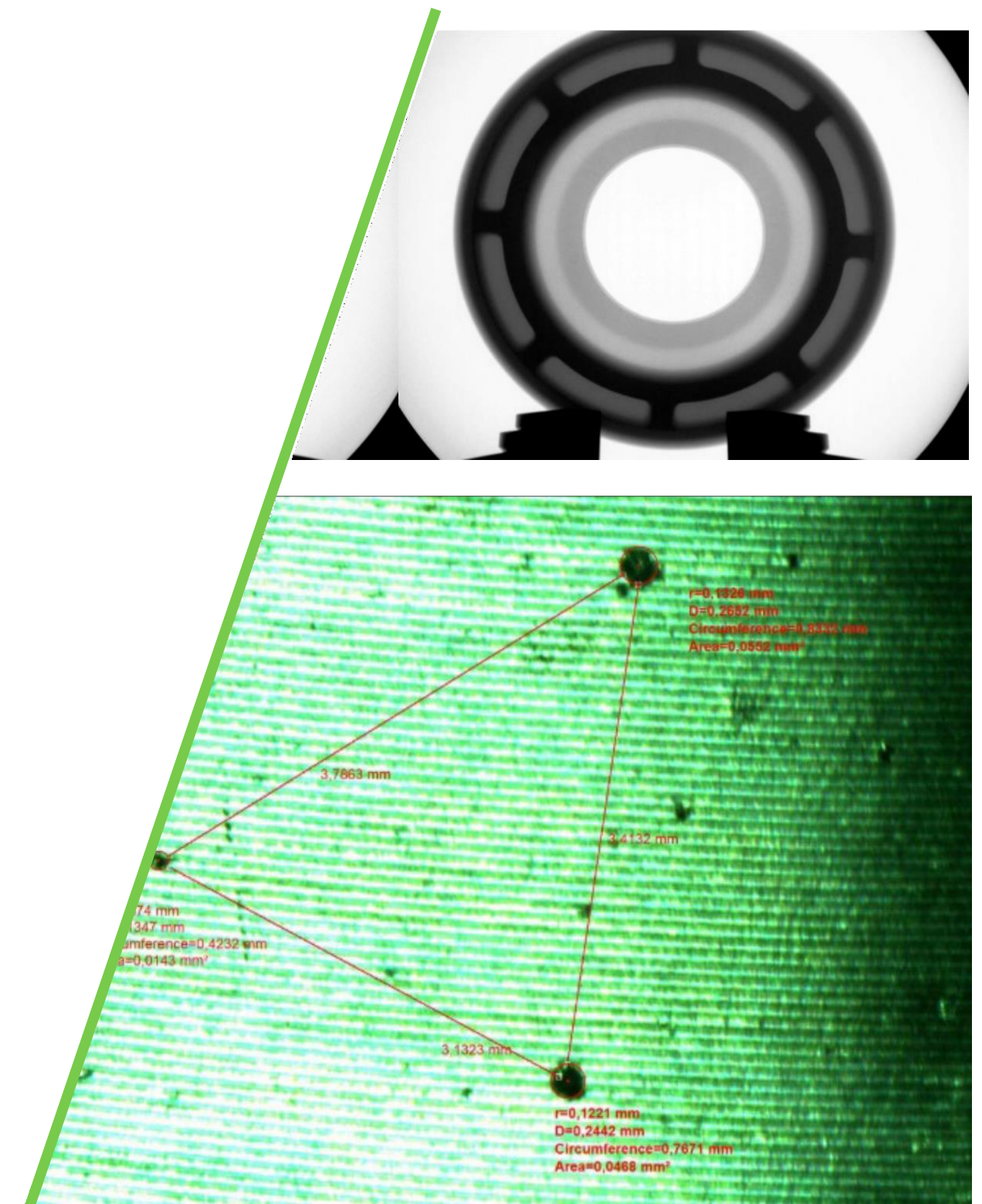
Tensile Test – External Lab (Rm, Rp, %Elong.)(KOSGEB)

Special Test Fixtures & Gauges

Zeiss 3D CMM

Mahr Surface Roughness and Contour Measurement

RPT Density Control



# TEST CAPABILITIES



**X-Ray Inspection**  
*Yxlon*

**Surface Roughness and Contour Measurement**  
*MahrSurf*

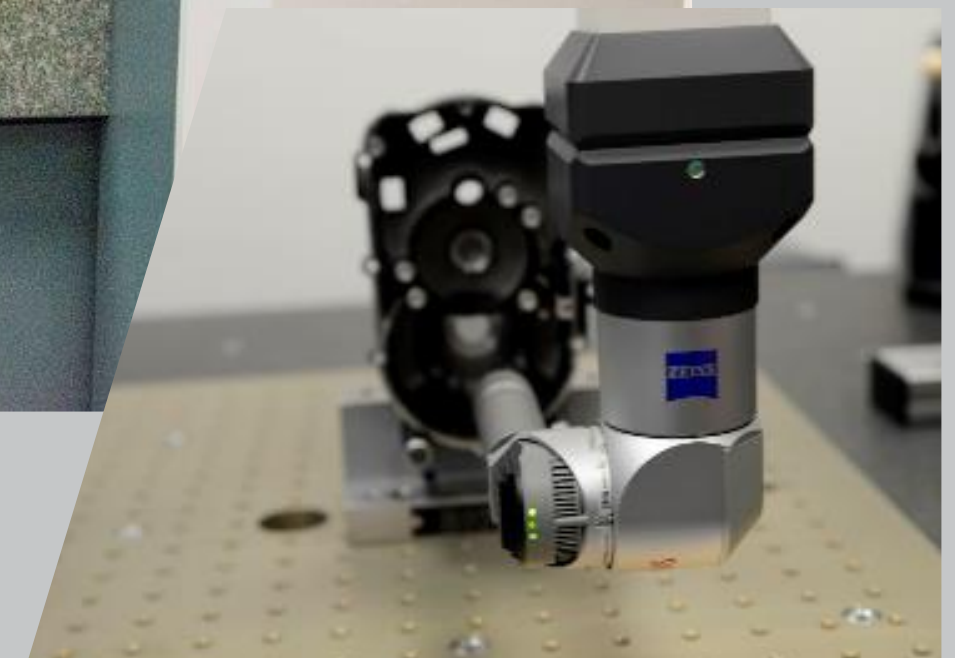
# MEASUREMENT CAPABILITIES



**Tool Measurement**  
*Zoller*



**3D CMM**  
*Zeiss*

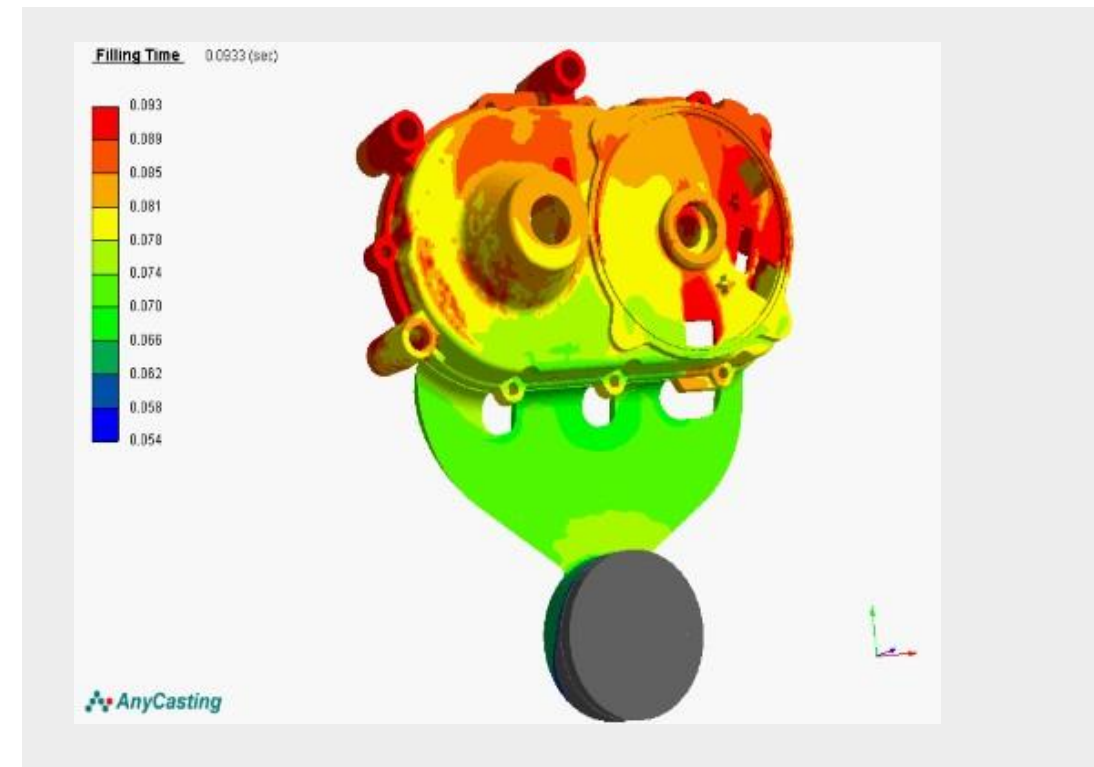


# CASTING SIMULATION

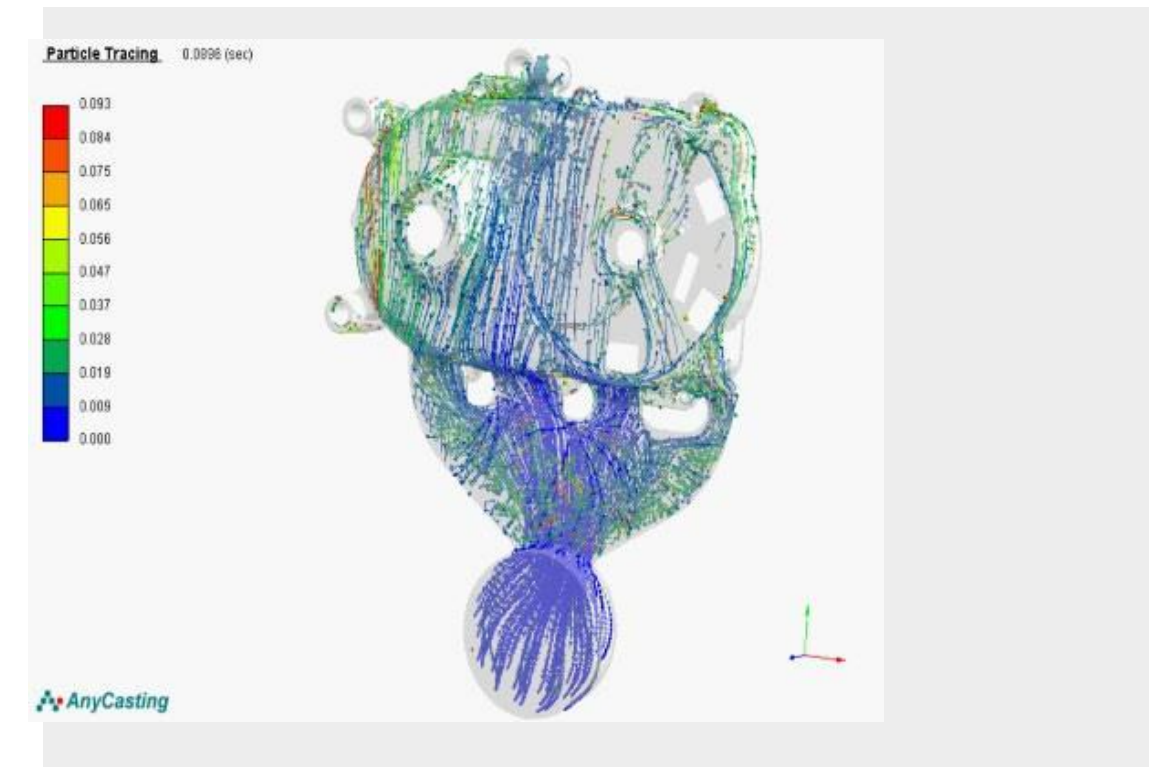
New project designs, optimised for better castings with close customer cooperation.

To enhance better results in new projects Casting Simulation Software "ANYCASTING" is used for,

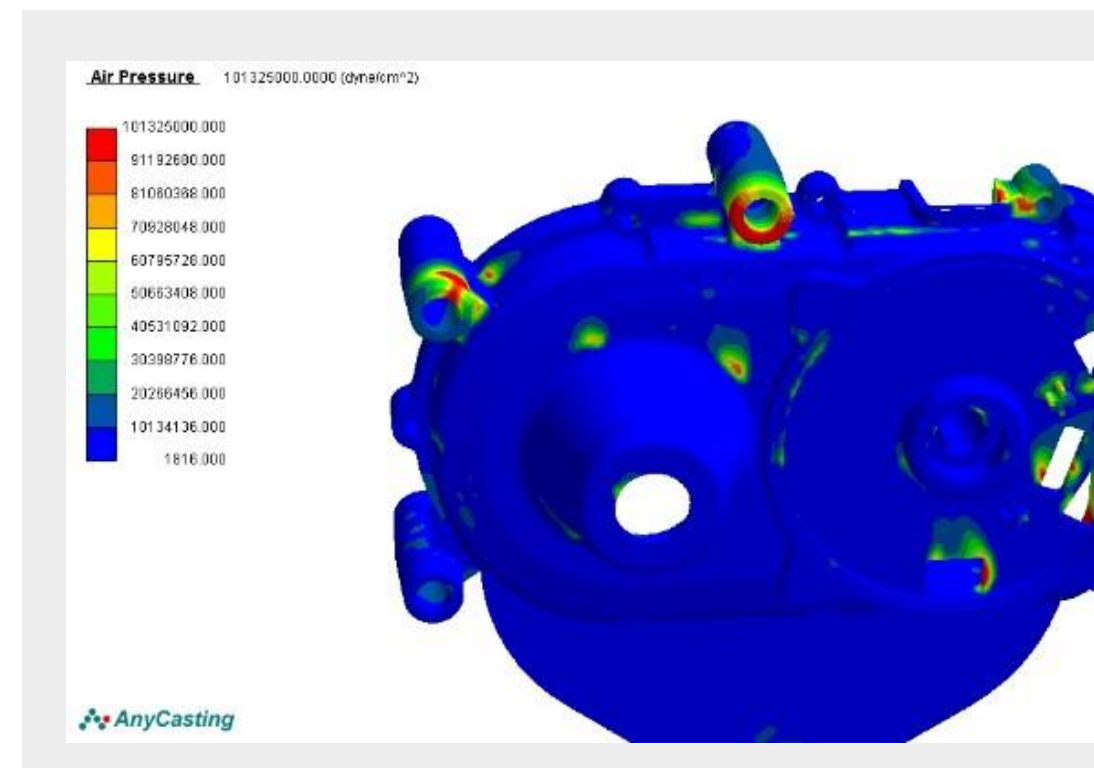
- Liquid Filling Analysis
- Solidification Patterns



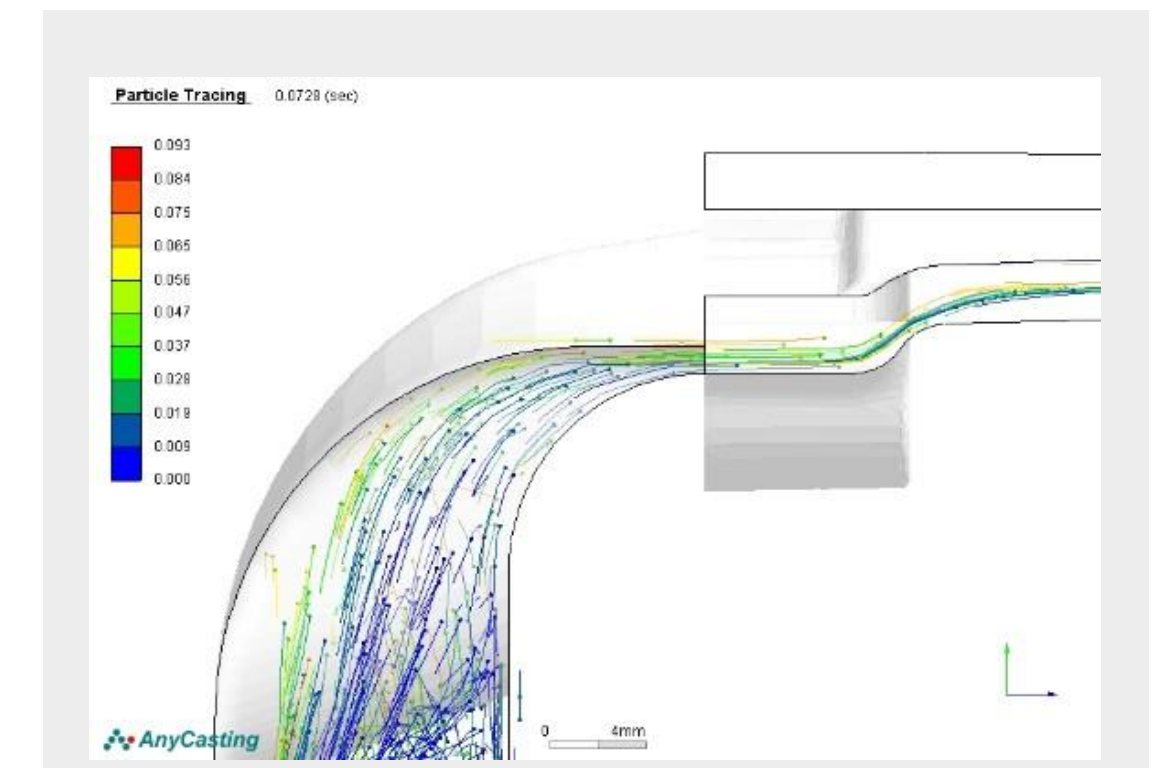
Filling Time, Material Flow



Particle Tracing



Air Pressure



Runner Optimisation

# / HUMAN RESOURCES

We can achieve competitiveness and success only through teamwork and focused efforts of an engaged, dedicated and capable workforce

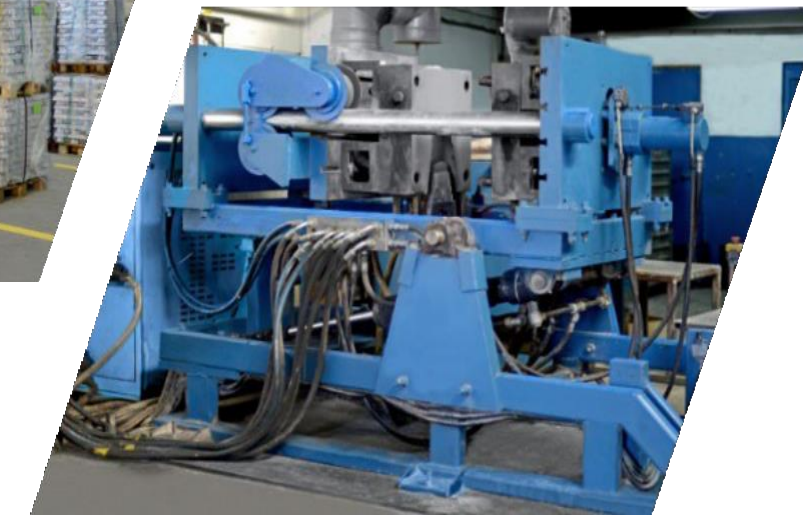
AIM: To employ promising, motivated individuals and then help them to realise their potential by enhancing their capabilities and by increasing their education so they become effective.

Since Q4 2016, we actively employ a company wide Suggestion System with rewards and systematic follow-ups to engage every employee to increase our efficiency.



# PHOTO GALLERY

## Casting Shop





# PHOTO GALLERY

## CNC Machining Shop



# PHOTO GALLERY

## Tool & Fixture Workshop



# PHOTO GALLERY

## Shot Blasting & Vibro Process



# PHOTO GALLERY

## Washing / Helicoil Insert / Assembly






# PHOTO GALLERY




## Final Control & Packaging






# INVESTMENT PLANS 2017-2019

Goal / Investment	Description	Planned Date	Status	
	<p><b>New Zitai fully automated Casting Machine 250 T</b></p>	<ul style="list-style-type: none"> <li>• Extra squeeze casting capability for gas tight parts,</li> <li>• Including 3 robots,</li> <li>• AutoLadler,</li> <li>• Servo Programmable Sprayer</li> <li>• Extractor</li> <li>• Tool thermo regulator &amp; Vacuum system</li> </ul>	2017-Q3	Completed
	<p><b>3D CMM</b></p>	<ul style="list-style-type: none"> <li>• Zeiss 3D CMM</li> </ul>	2017-Q4	Completed
	<p><b>2 new Brother CNC Machining Centers (R450 X1 &amp; R650X1)</b></p>	<ul style="list-style-type: none"> <li>• 4 axis,</li> <li>• 10K rpm,</li> <li>• Renishaw Laser (TRS2) and Parts Probes (OMP40)</li> <li>• High pressure internal coolant</li> <li>• High speed machining for Alu parts</li> </ul>	2018 Q3	Completed

# INVESTMENT PLANS 2017-2019



	Goal / Investment	Description	Planned Date	Status
	<b>XRAY</b>	<b>XRAY MACHINE</b> <ul style="list-style-type: none"><li>• YXLON YMU-200D / 225 KV</li><li>• CT Ready</li></ul>	2018 Q3	Completed
	<b>Mahr</b>	<b>Mahr CD 280</b> Contour and Surface Measurement	2018 Q4	Completed
	<b>Central Melting Furnace</b> <b>BOTTA (Italy)</b>	<ul style="list-style-type: none"><li>• Gas Powered</li><li>• Tower Type</li><li>• 1500 Kgs Holding</li><li>• 600 Kgs/Hour Melting capacity</li></ul>	2019 Q2	Completed

# INVESTMENT PLANS 2017-2019

	Goal / Investment	Description	Planned Date	Status
	<b>OMS PRESS Automated Die Casting Machine (Italy)</b>	<ul style="list-style-type: none"><li>• 480 Tons Locking Force</li><li>• Auto Ladler</li><li>• Auto Sprayer</li></ul>	2019-Q2	Completed
	<b>Liquid Metal Transfer System</b>	<ul style="list-style-type: none"><li>• Electric Powered</li><li>• 500 Kgs Transfer Capacity</li><li>• 3 x Transfer pots for different alloys</li></ul>	2019-Q2	Completed
	<b>DOGUS Foundry Degassing Unit (FDU)</b>	<ul style="list-style-type: none"><li>• Plc Controlled</li><li>• 200-1200 Kgs Capacity</li><li>• Auto Flux Feeding System</li></ul>	2019-Q2	Completed



# INVESTMENT PLANS 2017-2019

Goal / Investment	Description	Planned Date	Status
 <p><b>Density Index Measurement</b></p>	<ul style="list-style-type: none"> <li>• Control and optimize the cleaning of the Melt.</li> <li>• Density Index Equipment.</li> <li>• Saving the measure results and SPC capability.</li> </ul>	2019-Q4	Planned
 <p><b>New Zitai fully Automated Casting Machine 730 Tons</b></p>	<ul style="list-style-type: none"> <li>• Including 3 robots,               <ul style="list-style-type: none"> <li>• AutoLadler,</li> <li>• Auto Sprayer</li> <li>• Extractor</li> </ul> </li> <li>• Tool thermo regulator &amp; Vacuum system</li> </ul>	2019-Q4	Planned

# MOVING TO A NEW PLANT

## Description

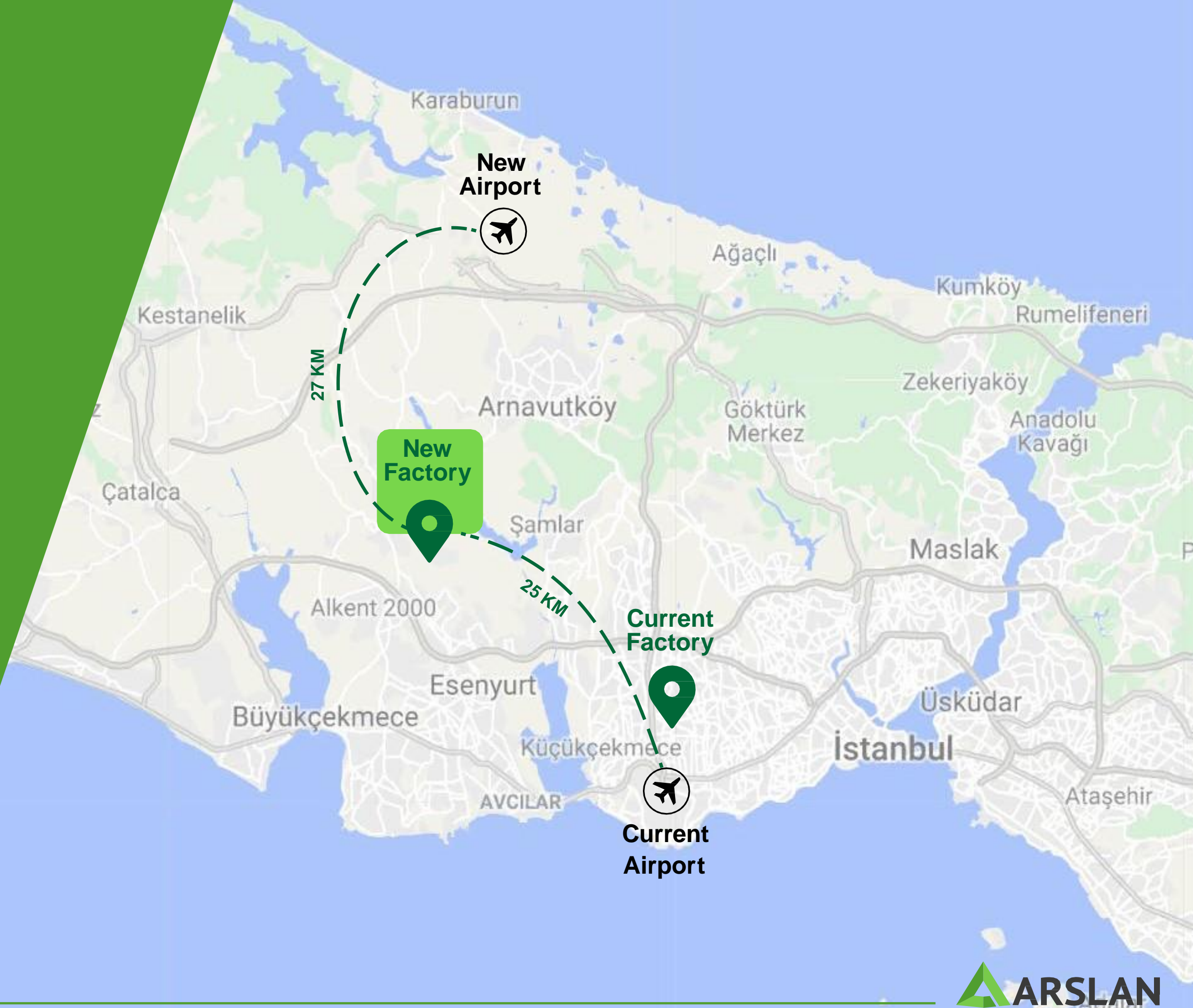
New factory Building investment in the new organized Industry area. (Hadımköy Industrial Area)

### Location:

- 25 Km West Direction from Atatürk Airport.
- 27 Km South Direction from New 3rd Airport.
- Planned total closed area 13.000 sqm

## Planned Date

2019-Q4



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## Description

New factory Building investment in the new organized Industry area. (Hadımköy Industrial Area)

Location:

- 25 Km West Direction from Atatürk Airport.
- 27 Km South Direction from New 3rd Airport.
- Planned total closed area 13.000 sqm

## Planned Date

2019-Q4



Thank you for  
your attention.

