

Company Presentation

01.03.2020 rev6



AT A GLANCE

A family owned business.
Second generation in charge.

Management Mr. Oğuzhan Arslan
Technical Gn.Man. (Ind. Eng.)

Mr. Kaan Arslan
Admin.Gn.Man. (BA)

Head of Finance Mr. Saruhan Arslan
(BA)

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



10

NUMBER OF
ENGINEERS



95

22 White / 73 Blue

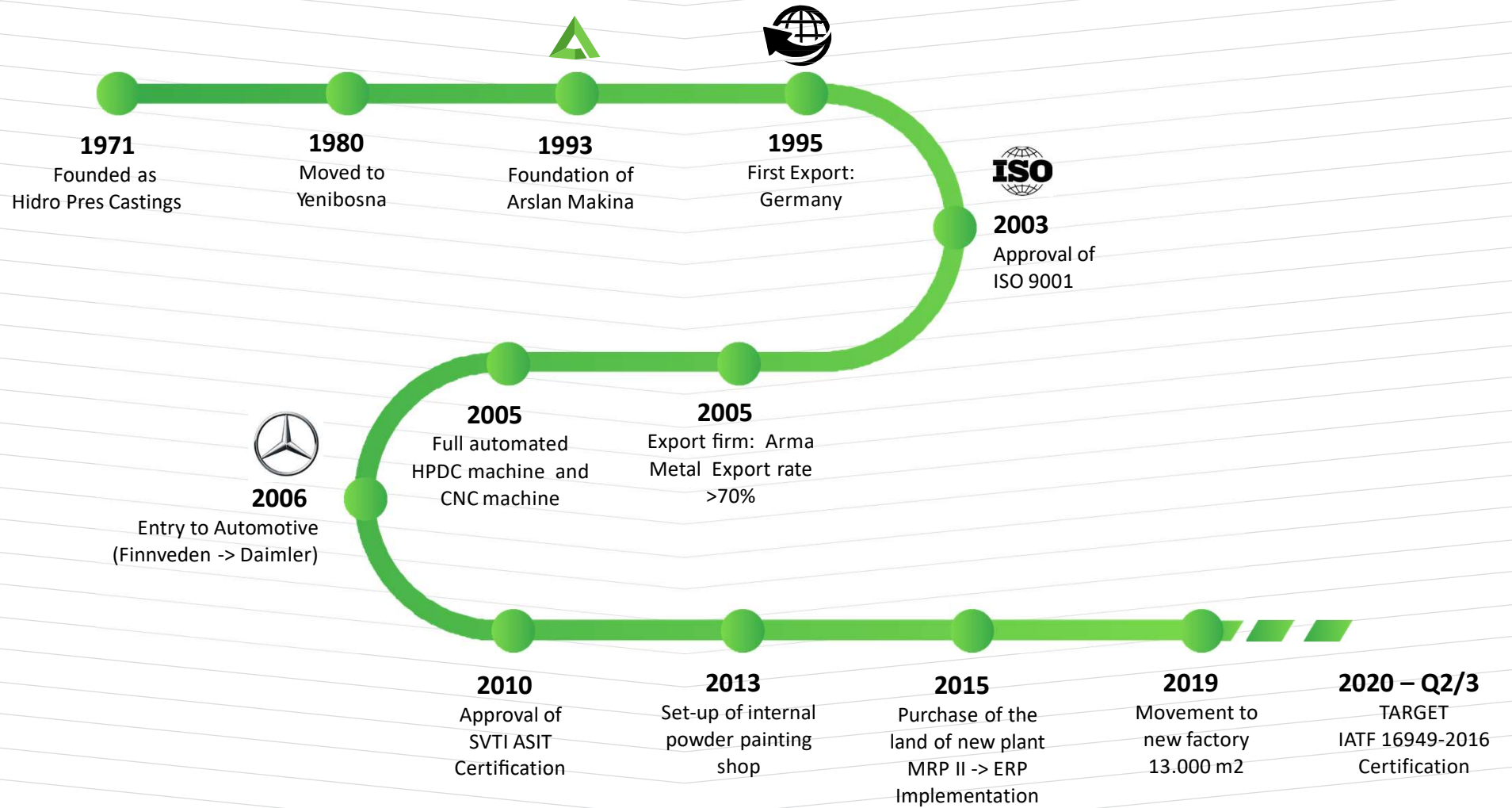
NUMBER OF
EMPLOYEES



13.000

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 20 g to 6 kg

Aluminium gravity die castings up to 15 kg

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



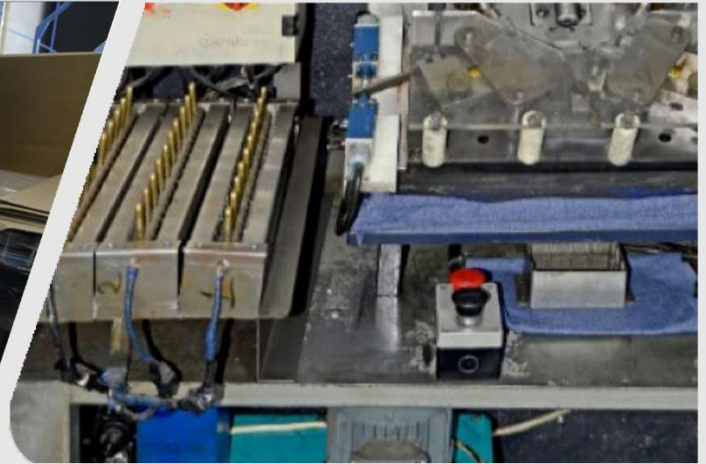
Powder Paintings

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

A L U M I N Y U M	KODU CODE	RENKLER / COLORS		EURO NORM	EN 1706
	A 140	SARI YELLOW	SARI YELLOW	SARI YELLOW	EN AC Al Si12(b)
A 145	SARI YELLOW	KIRMIZI RED	KIRMIZI RED	EN AC Al Si12 Cu Ni Mg	EN AC 48000
A 150	MAVİ BLUE	YEŞİL GREEN	YEŞİL GREEN	ETİ NORM	E-150
A 160	YEŞİL GREEN	YEŞİL GREEN	YEŞİL GREEN	EN AC Al Si9 Cu3(Fe)	EN AC 46000
A 171	MAVİ BLUE	SİYAH BLACK	SİYAH BLACK	EN AC Al Si10 Mg(Fe)	EN AC 43400
A 177	YEŞİL GREEN	KIRMIZI RED	KIRMIZI RED	EN AC Al Si7 Mg0,3	EN AC 42100
A 231	SARI YELLOW	YEŞİL GREEN	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

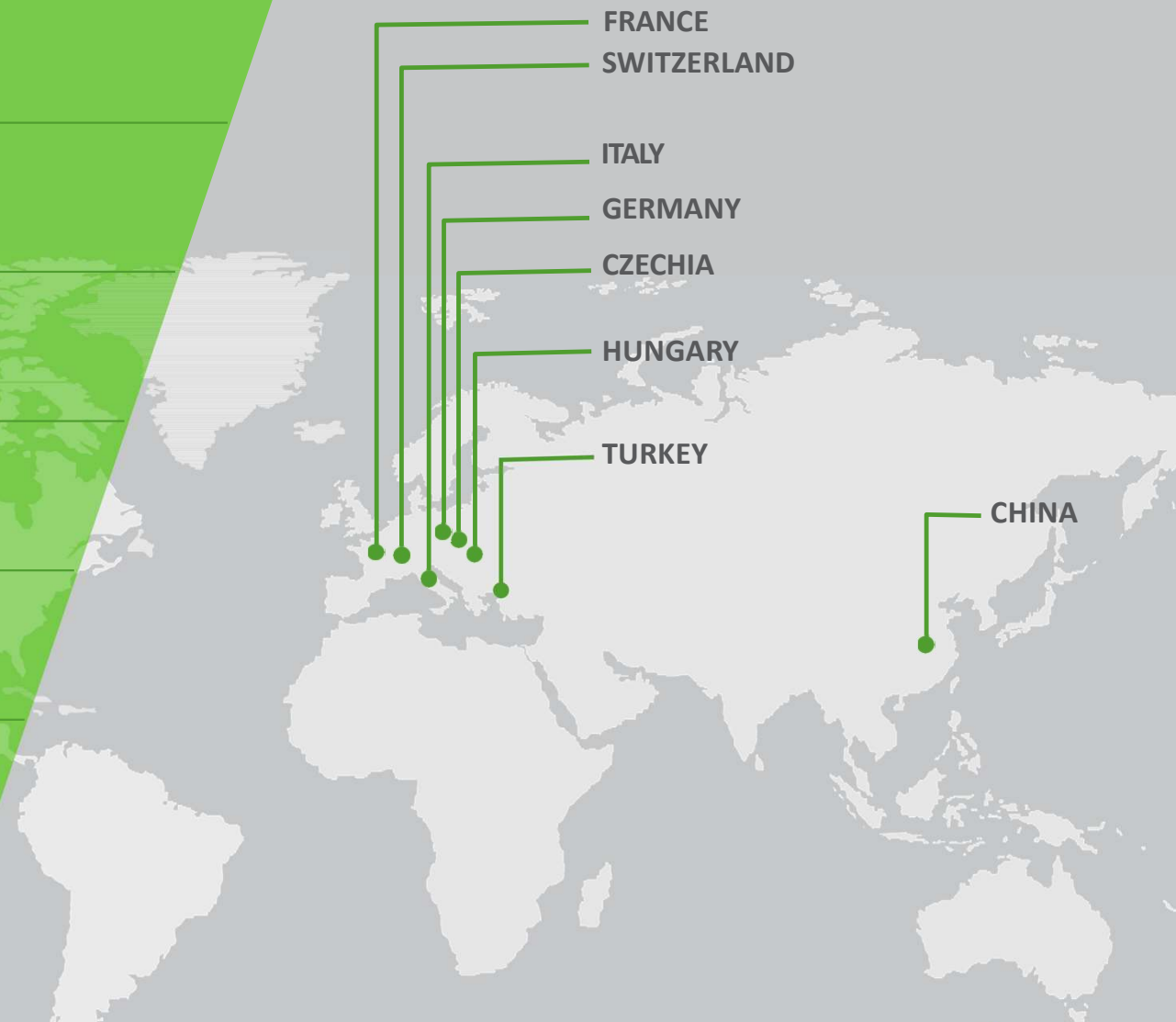
CASTING

LIGHTNING

DRIVE TECH.

TELECOM

ELECTRONIC



CERTIFICATES



CERTIFICATE

Management system as per
ISO 9001 : 2015

In accordance with TUV 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 4/14, İç Kapı No 14, 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 1587
Valid from 2018-08-22
Valid until 2021-08-24
Initial certification 2015

Certification Body
at TUV NORD CERT GmbH
İstanbul, 2018-08-05

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

TUV NORD CERT GmbH Langemannstraße 20 45141 Essen www.tuv-nord-cert.com

DAKKS
Deutsche
Akkreditierungsagentur
DIN EN ISO 9001



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 - İstanbul

to the licensing for manufacturing and testing of spring loaded pressure relief device objects according to the SVTI prescription, specification 803, and 794 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 - İstanbul

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
28.11.2019

Agreement Nr.
KIS.VZ.5509888

Waltersen, 08.12.2016

Head of Equipment Technology
Felix Heer
Felix Heer

The Supervisor
Wolfgang Häbling
Wolfgang Häbling



CERTIFICATE

Management system as per
ISO 9001 : 2015

In accordance with TUV 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 4/14, İç Kapı No 14, 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. 100318
Audit Report No. TR 1587
Valid from 2018-08-22
Valid until 2021-08-24
Initial certification 2015

Certification Body
at TUV Teknik Kontrol ve Belgelendirme A.Ş.
İstanbul, 2018-08-05

This certificate remains valid until the above stated date if and only if there is an uninterrupted compliance with the requirements of the standard and continuous control. The certificate remains valid as long as there is no change in the scope of the certificate.

TUV Teknik Kontrol ve Belgelendirme A.Ş.
Akşamın Cad. Paşa Sok. Sancak Plaza
No 2-A, Kat: A, Gayrettepe, Beşiktaş
TR-34445 İstanbul
www.tuv-technik.com.tr www.tuv-nord.com.tr

TÜRKAKB
TÜRKAKB 2019-01
TÜRKAKB 2019-01
TÜRKAKB 2019-01

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

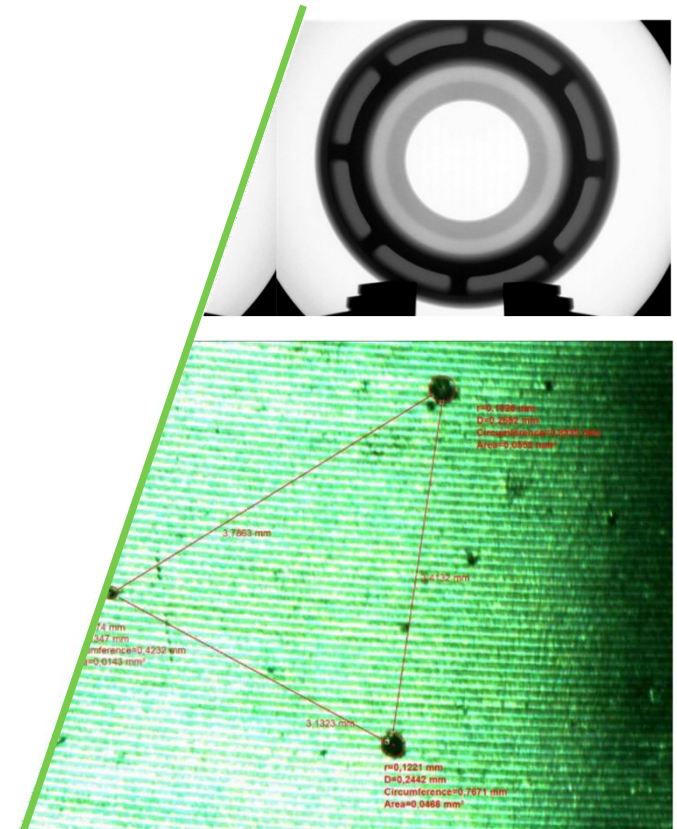
Test – External Lab (Rm, Rp, %Elong.)(KOSGEB) Special Test

Fixtures & Gauges

Zeiss 3D CMM

Mahr Surface Roughness and Contour Measurement

RPT Density Control



TEST CAPABILITIES



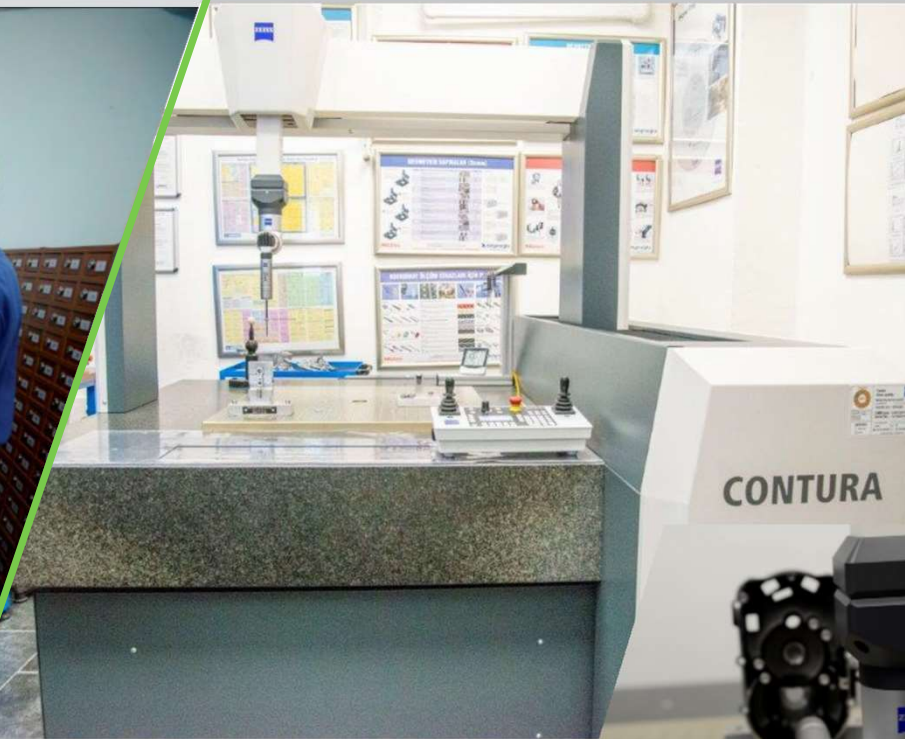
X-Ray Inspection
Yxlon

Surface Roughness and Contour Measurement
MahrSurf

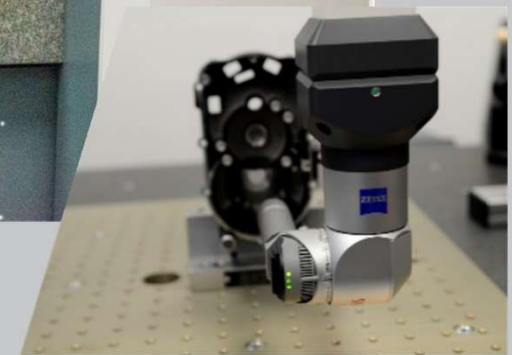
MEASUREMENT CAPABILITIES



Tool Measurement
Zoller



3D CMM
Zeiss

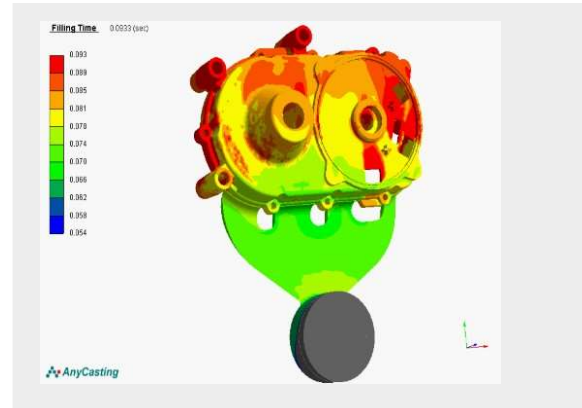


CASTING SIMULATION

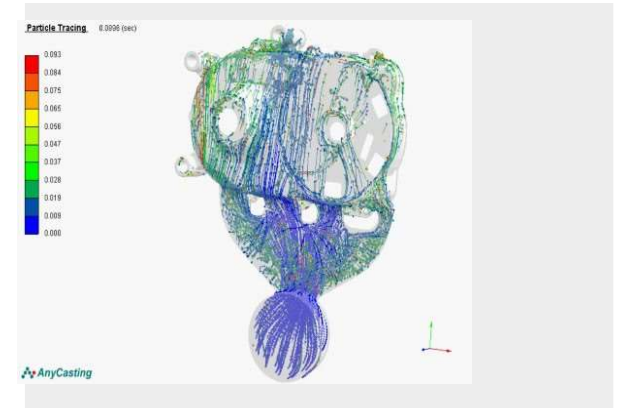
New project designs, optimised for better castings with close customer cooperation.

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

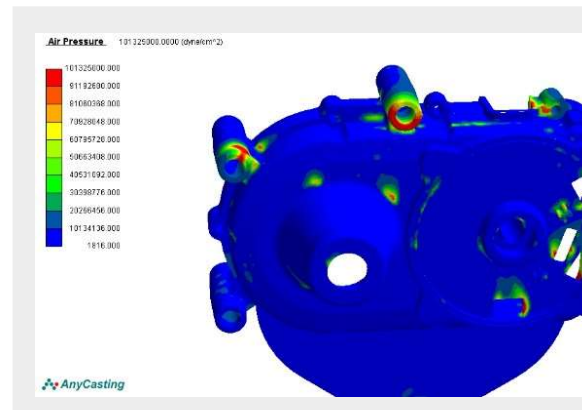
- Liquid Filling Analysis
- Solidification Patterns



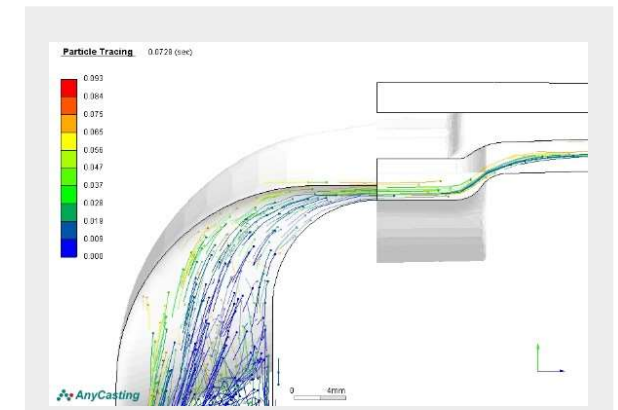
Filling Time, Material Flow



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

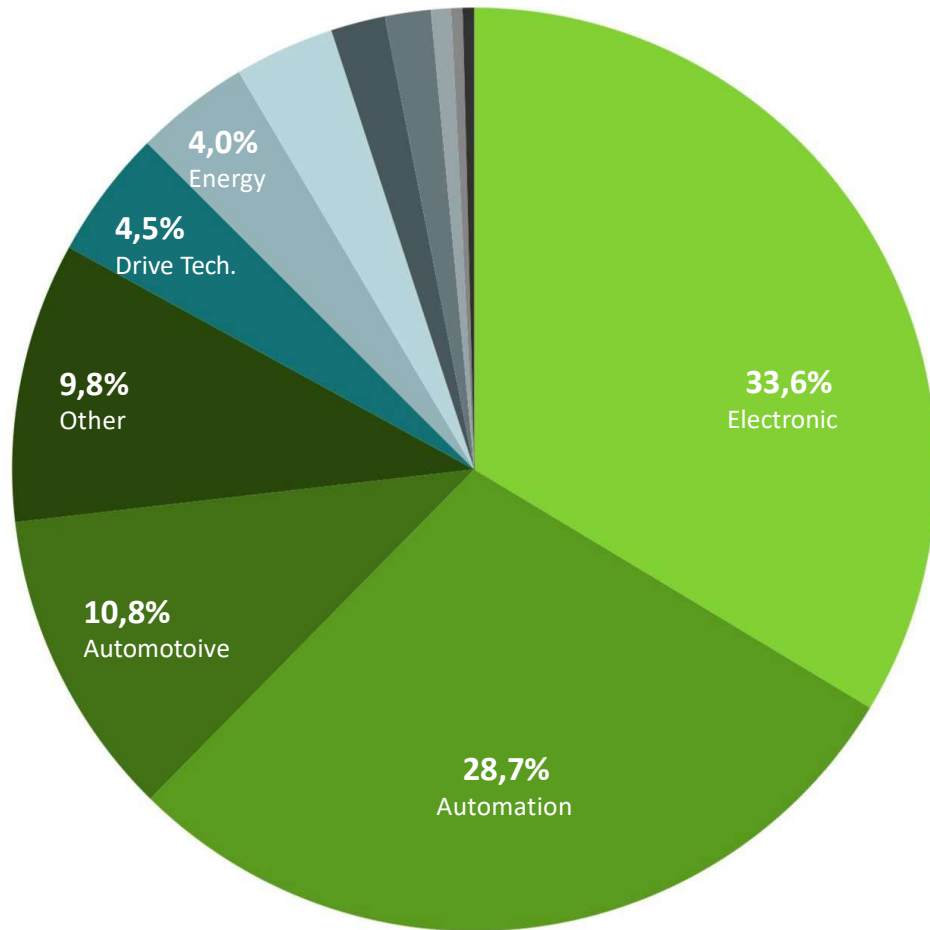
AIM: To employ promising, motivated individuals and then help them to realise their potential by enhancing their capabilities and by increasing their education so they become effective.

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.



A655

2018 TURNOVER RATIO



Sector	Turnover Ratio
Electronic	33,6 %
Automation	28,7 %
Automotive	10,8 %
Other	9,8 %
Drive Technology	4,5 %
Energy	4,0 %
Military	3,5 %
Lighting	1,9 %
Industrial	1,6 %
Air Systems	0,7 %
Telecom	0,4 %
Hydraulics	0,4 %

PHOTO GALLERY

Casting Shop

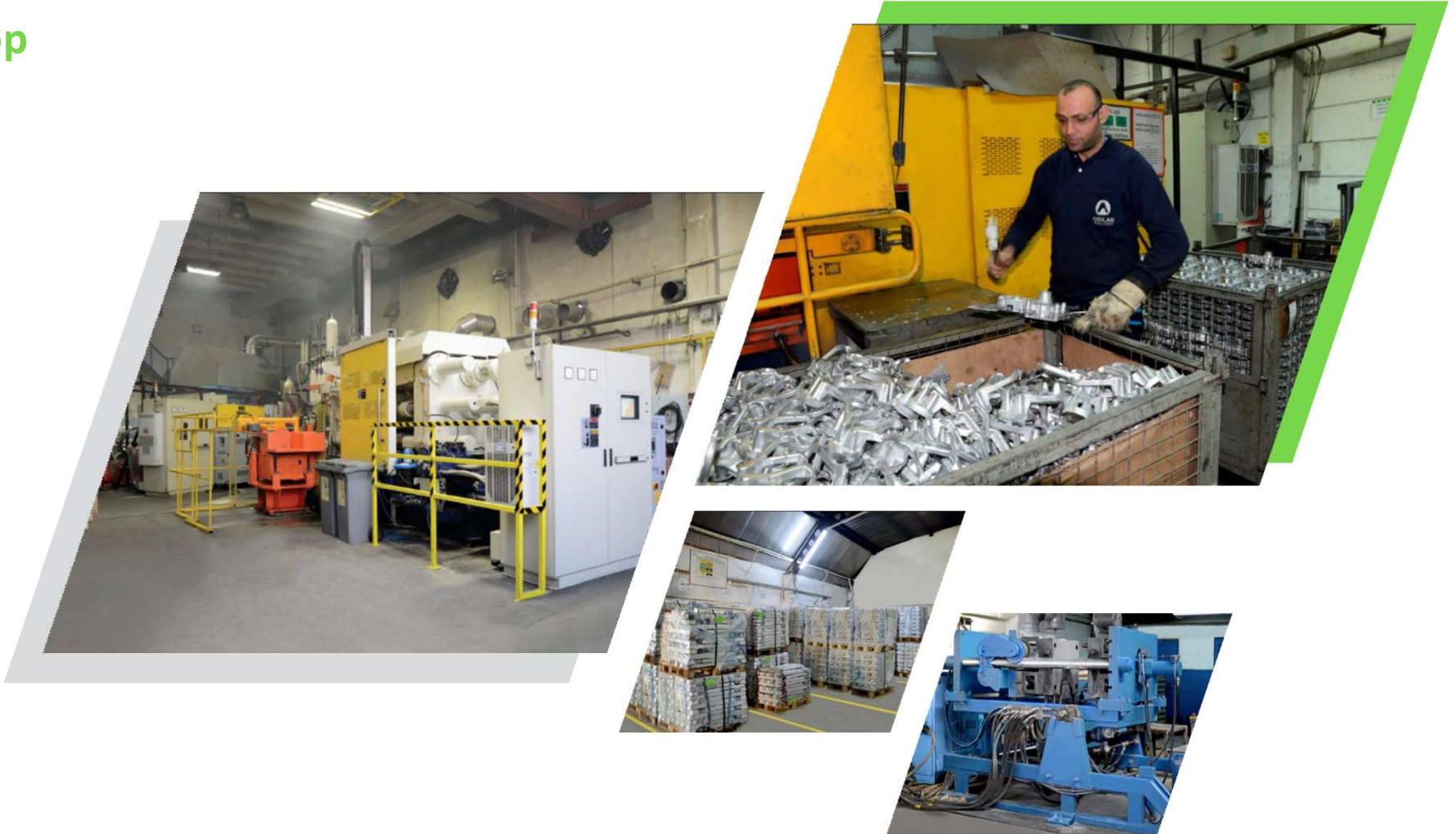


PHOTO GALLERY

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



PRODUCTS



Part Name	Deckel VS	PM80 Lagerschale	Bursting Disc Deflector	Connection Lever Stiff
Material	EN AC 46000	EN AC 46000	EN AC 42100	EN AC 42100
Weight	360 g	150 g	2.660 g	980 g
Cavity	1	2	1	1
Annval Qty.	4.000-6.000	8.000-10.000	4.000-7.000	5.000-7.500
Sector	Valve Systems	Drive Systems	Energy	Energy



Due to the requirements of Customer Confidentiality, we can only show you a small sample of the wide range of components we currently manufacture.

PRODUCTS



Part Name	Pressure Relief Device	Drosselklappen Gehäuse	B-Lagergehäuse	Deckel Cet
Material	EN AC 43400	EN AC 43400	EN AC 46000	EN AC 47000
Weight	3.080 g	2.100 g	550 g	75 g
Cavity	1	1	1	1
Annval Qty.	1.000-2.000	1.000-2.500	2.000-3.000	40.000-60.000
Sector	Energy	Engine Systems	Electric Bike	Safety Switch



Due to the requirements of Customer Confidentiality, we can only show you a small sample of the wide range of components we currently manufacture.

PRODUCTS



Part Name	Pedelec Safety Cover	J Box and Cover	Gehause Links	Gehause STP
Material	EN AC 46000	EN AC 46000	EN AC 46000	EN AC 47000
Weight	850 g	750 g	665 g	150 g
Cavity	1	1	1	1
Annval Qty.	5.000-10.000	2.500-5.000	80.000-100.000	40.000-60.000
Sector	Safety Systems	Electric System	Electric Bike	Safety Switch



Due to the requirements of Customer Confidentiality, we can only show you a small sample of the wide range of components we currently manufacture.

PRODUCTS






Part Name	DEUTZ BRAKET	MTC 6/15" Housing	PTXB-10" Housing	DECKEL Ø24
Material	EN AC 46000	EN AC 46000	EN AC 43400	EN AC 46000
Weight	106 g	2.100 g	950 g	70 g
Cavity	4	1	1	4
Annval Qty.	90.000-110.000	3.000-5.000	80.000-100.000	80.000-100.000
Sector	Automotive	Electronic	Electric Bike	Electric Bike






Due to the requirements of Customer Confidentiality, we can only show you a small sample of the wide range of components we currently manufacture.




INVESTMENT PLANS 2018-2020

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

INVESTMENT PLANS 2018-2020

Goal / Investment	Description	Planned Date	Status
 <p data-bbox="376 483 539 699">Oms Press Automated Die Casting Machine (Italy)</p>	<ul data-bbox="752 483 1099 603" style="list-style-type: none"> • 480 Tons Locking Force • Auto Ladler • Auto Sprayer 	2019-Q2	Completed
 <p data-bbox="376 810 600 890">Liquid Metal Transfer System</p>	<ul data-bbox="752 810 1272 930" style="list-style-type: none"> • Electric Powered • 500 Kgs Transfer Capacity • 3 x Transfer pots for different alloys 	2019-Q2	Completed
 <p data-bbox="376 1090 611 1217">DOGUS Foundry Degassing Unit (FDU)</p>	<ul data-bbox="752 1090 1144 1209" style="list-style-type: none"> • Plc Controlled • 200-1200 Kgs Capacity • Auto Flux Feeding System 	2019-Q2	Completed

INVESTMENT PLANS 2018-2020

Goal / Investment	Description	Planned Date	Status
	<p>DENSITY INDEX MEASUREMENT SYSTEM</p> <ul style="list-style-type: none"> • Control and optimize the cleaning of the Melt. • Density Index Equipment. • Saving the measure results. 	2019-Q4	Completed
	<p>+1 new Brother CNC Machining Centers (R650X1)</p> <ul style="list-style-type: none"> • 4 axis, • 16K rpm, • Renishaw Laser (TRS2) and Parts Probes (OMP40) • High pressure internal coolant • High speed machining for Alu parts 	2020-Q1	Completed
	<p>METALPRES HPDC MACHINE -750 TONS COMPLETE CELL CONCEPT</p> <ul style="list-style-type: none"> • Including 3 robots, <ul style="list-style-type: none"> • AutoLadler, • Auto Sprayer • KUKA 6 Axis Extractor • Tool thermo regulator & Vacuum system • Integrated Trimming Press 	2020 Q1	IN PROGRESS

EXPANSION IN NEW PLANT

(COMPLETED IN 2019)

Description

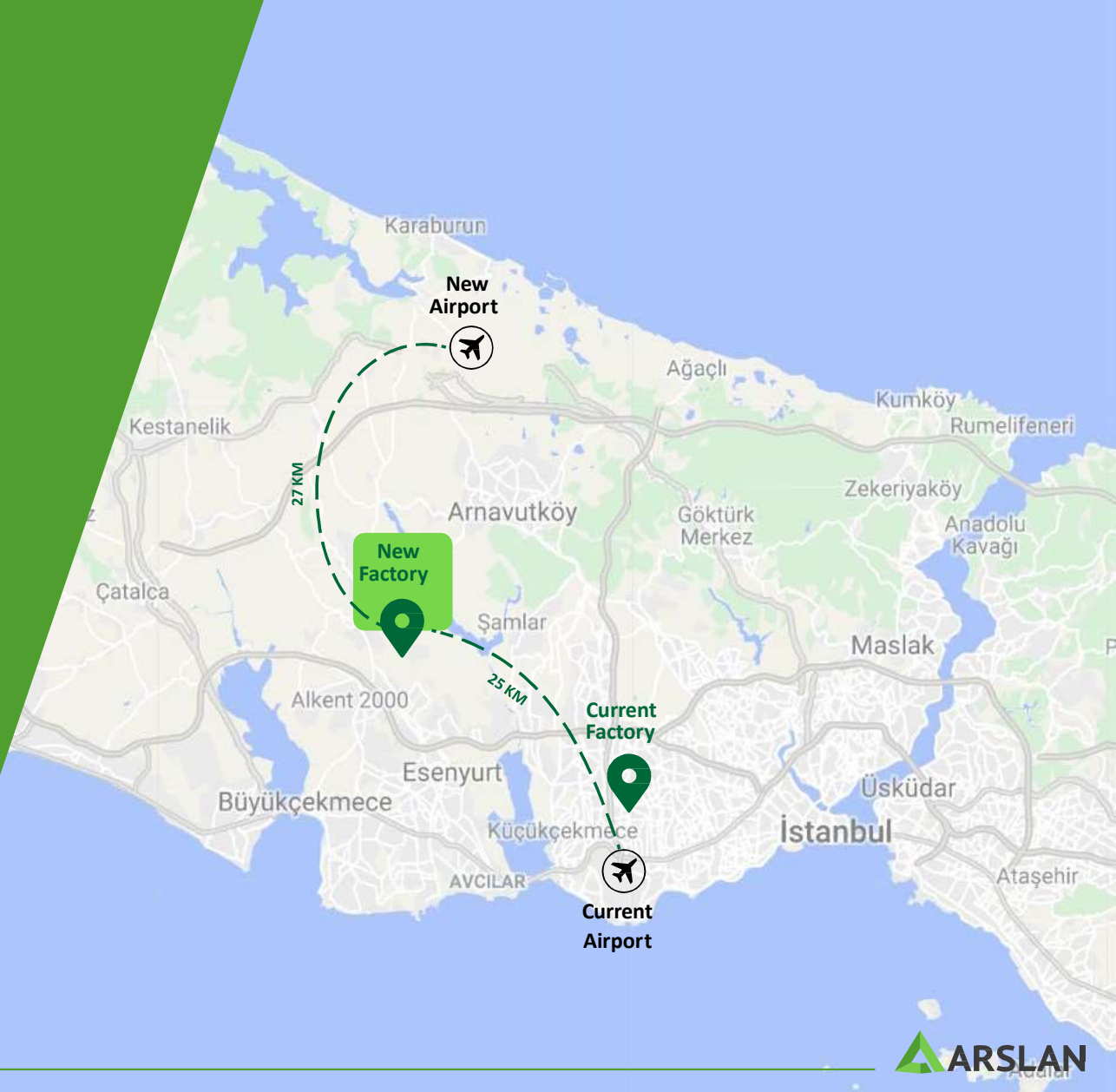
New factory building investment by ARSLAN in the new Organized Industry Area with modern infrastructure. (Hadımköy Industrial Zone)

Location

25 Km West Direction from Atatürk Airport.
27 Km South Direction from New 3rd Airport.
Easy Access to New Airport

Facts

Total Closed Area 13.000 m²
Optimized Production Lay-out
Quadrapled Area for New Investments



EXPANSION IN NEW PLANT

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Thank you for
your attention.

