CompanyPresentation

22.07.2020 rev8





ATA GLANCE

A family owned business. Second generation in charge.

Management	Mr. Oğuzhan Arslan Man. Director (Ind. Eng.)
	Mr. Kaan Arslan Man. Partner (Economics)
Head of Finance	Mr. Saruhan Arslan (BA)



MILESTONES



1971Founded as
Hidro Pres Castings



1993

Foundation of Arslan Makina



1995

First Export: Germany



2003

Approval of ISO 9001



1980

Moved to

Yenibosna

2006Entry to Automotive
(Finnveden -> Daimler)

2005

Full automated
HPDC machine and
CNC machine

2005

Export firm: Arma
Metal Export rate
>70%



2010Approval of SVTI ASIT Certification



2013Set-up of internal powder painting shop

2015Purchase of the land of new plant MRP II -> ERP Implementation

2019
Movement to
new factory
13.000 m2

2020 - Q2/3

TARGET
IATF 16949-2016
Certification





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



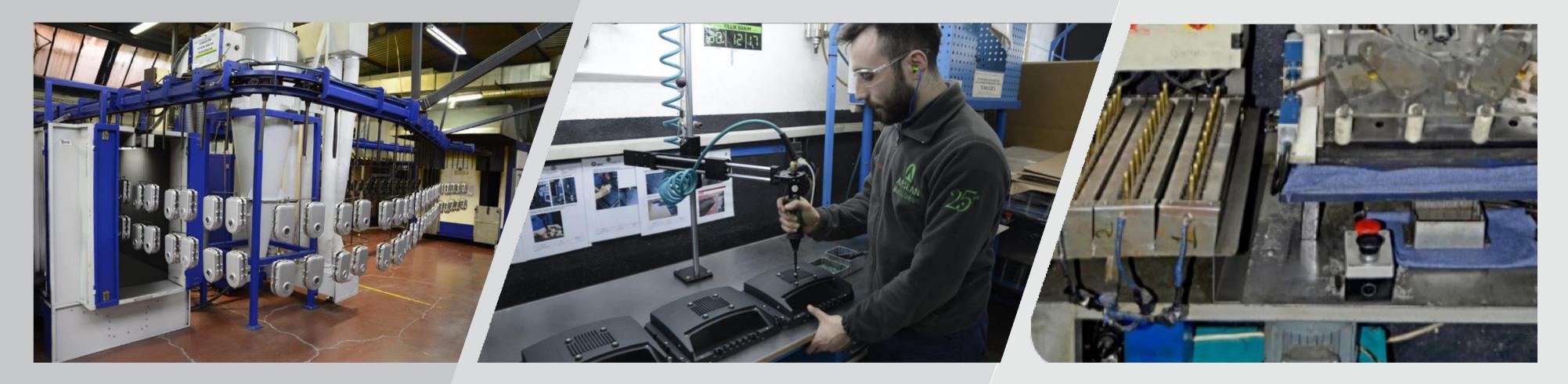


CNC Machining

4 axis precise milling, turning operations



CAPACITY / CAPABILITY INFORMATION



Powder Painting

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.





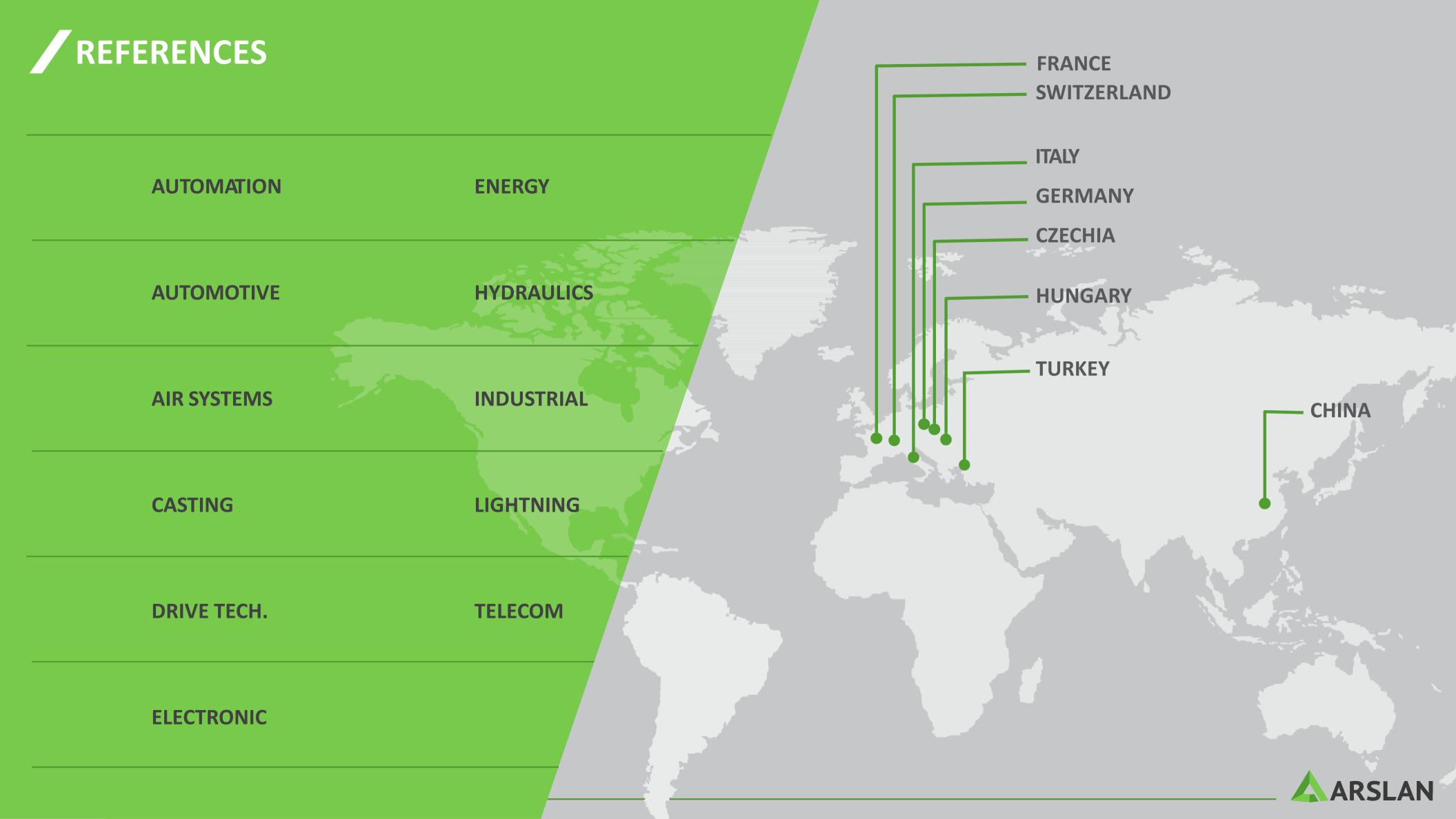
ALLOY TYPES & RELATED COLOR CODES

HAMMADDE RENK KODLARI ALLOY TYPES AND RELATED COLOR CODES

	KODU CODE	RENKLER / COLORS		EURO NORM	EN 1706
A A	A 140	SARI YELLOW	SARI YELLOW	EN AC Al Si12(b)	EN AC 44100
LLUU	A 145	SARI YELLOW	KIRMIZI RED	EN AC AI Si12 Cu Ni Mg	EN AC 48000
M M i I	A 150	MAVİ BLUE	YEŞİL GREEN	ETİ NORM	E-150
N N Y I	A 160	YEŞİL YEŞİL GREEN GREEN	EN AC Al Si9 Cu3(Fe)	EN AC 46000	
U U M M	A 171	MAVİ BLUE	SİYAH BLACK	EN AC AI Si10 Mg(Fe)	EN AC 43400
	A 177	YEŞİL GREEN	KIRMIZI RED	EN AC AI 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







CERTIFICATES









TEST CAPABILITIES

Dimensional Inspection - Mutitoyo 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

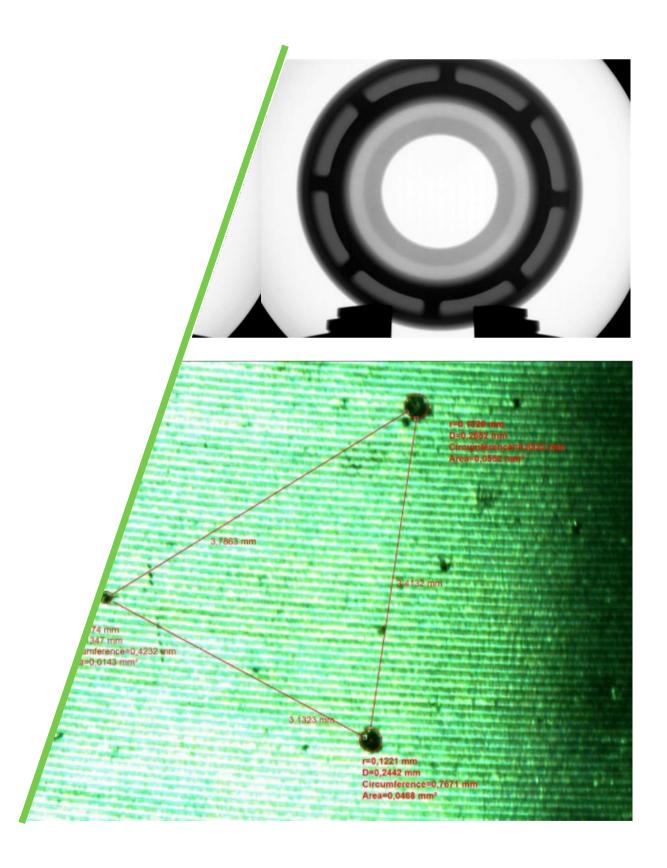
Test – External Lab (Rm, Rp, %Elong.)(KOSGEB) Special Test

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



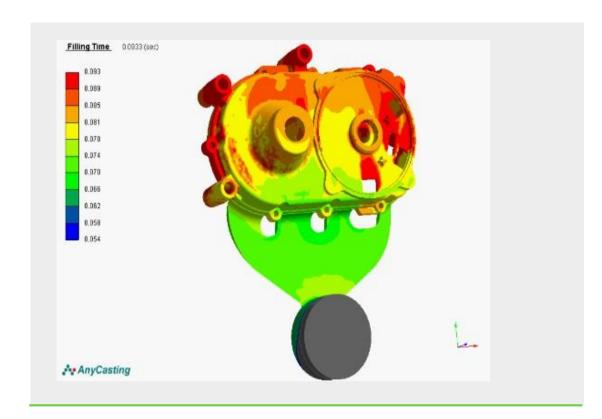
ARSLAN

CASTING SIMULATION

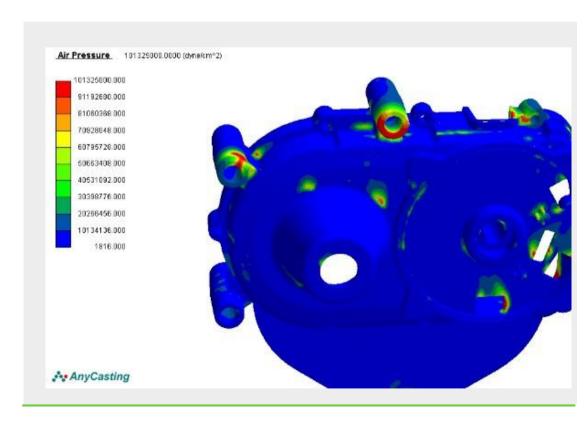
New project designs, optimised for better castings with close customer cooperation.

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

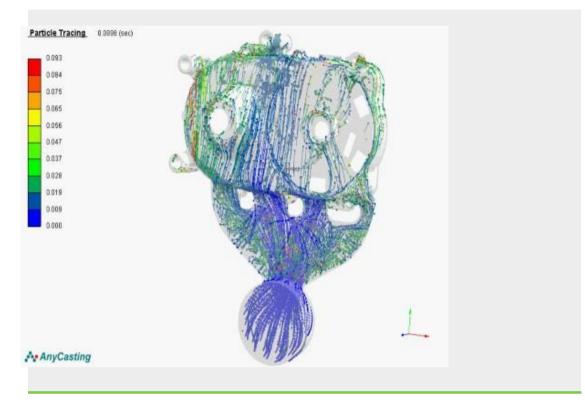
- Liquid Filling Analysis
- Solidification Patterns



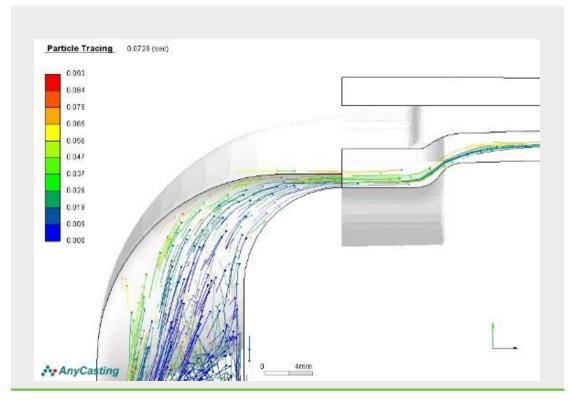
Filling Time, Material Flow



Air Pressure



Particle Tracing



Runner Optimisation



HUMAN RESOURCES

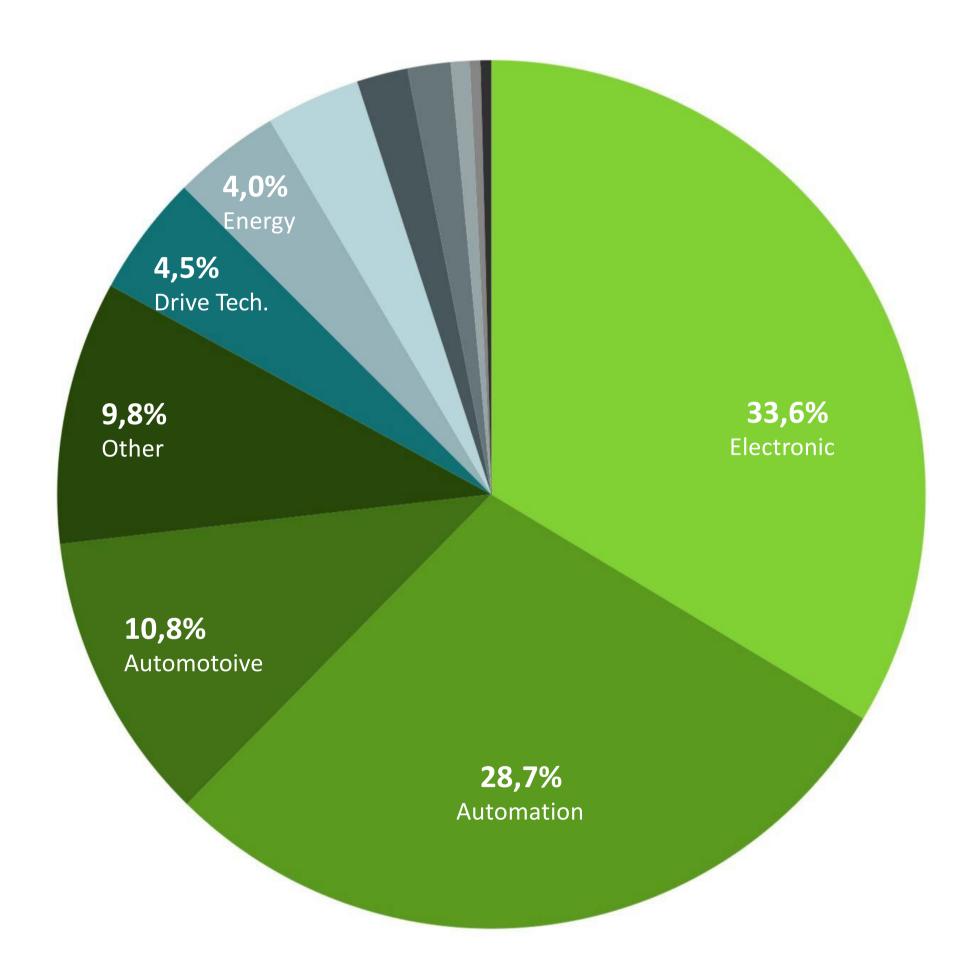
We can achieve competitiveness and success only through teamwork and focused efforts of an engaged, dedicated and capable workforce

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.



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 %



Foundry



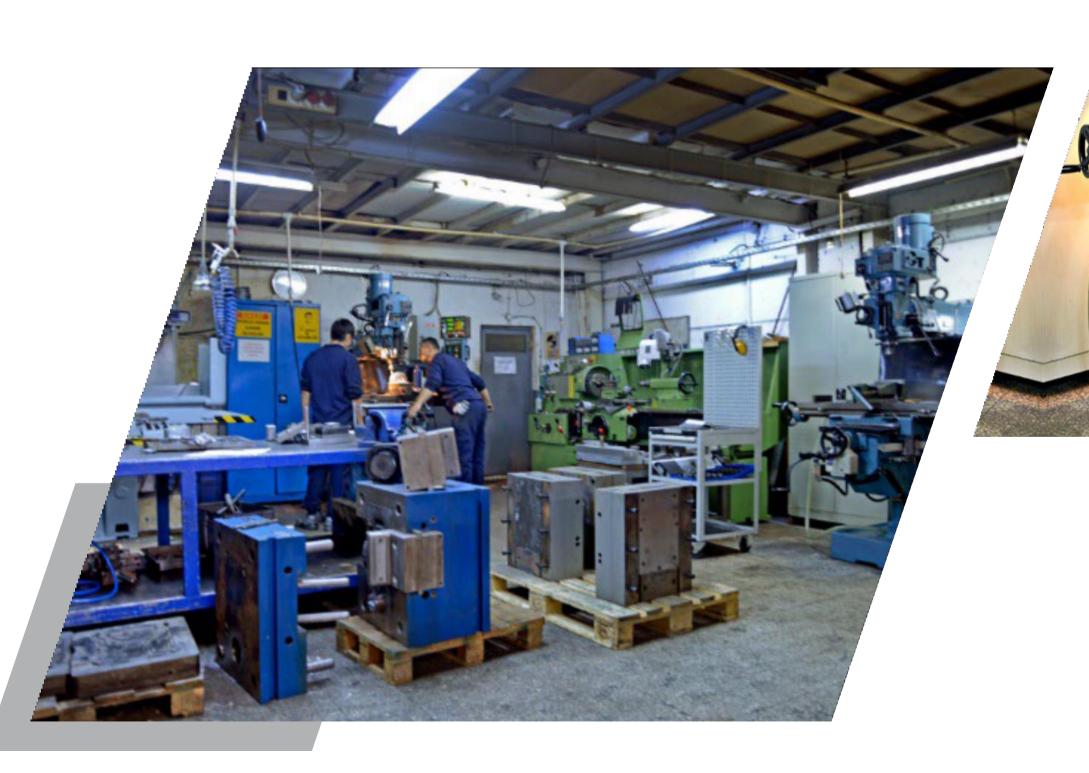


Machining





Tooling





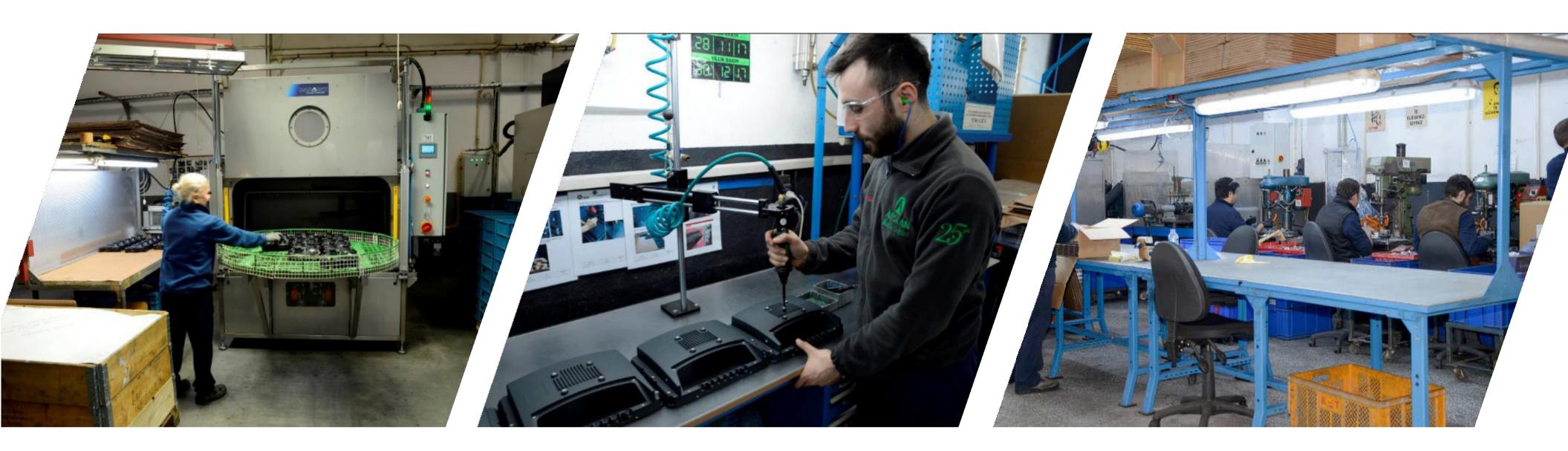


Shot Blasting & Vibro Deburring





Washing / Helicoil Insertion / Assembly





Final Q.C. & Packaging















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















Part Name	Pressure Relief Device	Drosselklappen Gehause	B-Lagergehause	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















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















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	Electonic	Electric Bike	Electric Bike





INVESTMENT PLANS 2018-2020

	Goal / Investment	Description	Planned Date	Status
YYCON ************************************	XRAY	XRAY MACHINE • YXLON YMU-200D / 225 KV • CT Ready	2018 Q3	Completed
Market (IS 30)	Mahr	Mahr CD 280 Contour and Surface Measurement	2018 Q4	Completed
	Central Melting Furnace BOTTA (Italy)	 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
OUS OUS	OMS PRESS Automated Die Casting Machine (Italy)	 480 Tons Locking Force Auto Ladler Auto Sprayer 	2019-Q2	Completed
	Liquid Metal Transfer System	 Electric Powered 500 Kgs Transfer Capacity 3 x Transfer pots for different alloys 	2019-Q2	Completed
15772	DOGUS Foundry Degassing Unit (FDU)	 Plc Controlled 200-1200 Kgs Capacity Auto Flux Feeding System 	2019-Q2	Completed



INVESTMENT PLANS 2018-2020

	Goal / Investment	Description	Planned Date	Status
	DENSITY INDEX MEASUREMENT SYSTEM	 Control and optimize the cleaning of the Melt. Density Index Equipment. Saving the measure results. 	2019-Q4	Completed
Drother PROCE	Machining Centers (R650X1)	 4 axis, 16K rpm, Renishaw Laser (TRS2) and Parts Probes (OMP40) High pressure internal coolant High speed machining for Alu parts 	2020-Q1	Completed
	METALPRES HPDC MACHINE -750 TONS COMPLETE CELL CONCEPT	 Including 3 robots, AutoLadler, Auto Sprayer KUKA 6 Axis Extractor Tool thermo regulator & Vacuum system Integrated Trimming Press 	2020 Q1	Completed



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.

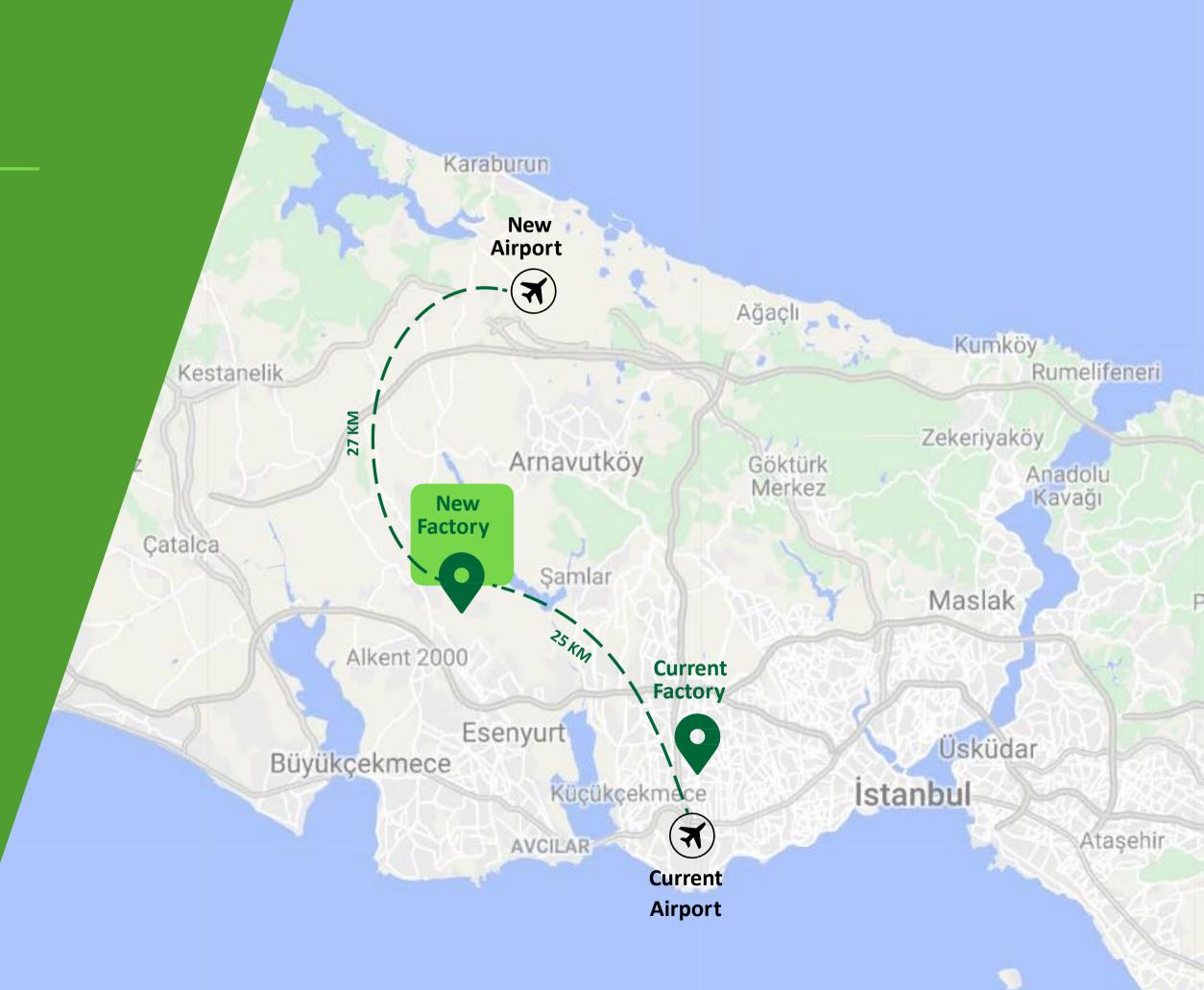
Easy Access to New Airport

Facts

Total Closed Area 13.000 m2

Optimized Production Lay-out

Quadrapled Area for New Investments





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Thank you for your attention.



