

ELECTRO MECHANICAL EQUIPMENTS INDUSTRY

SINCE 1975

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EMGE®

HISTORY

EMGE is a family business established by two brothers in 1975 under the name of ERTUĞLAR with a workshop area of only 90 m2. Then, the commercial name of Company was changed to EMGE Electro Mechanical Equipments Industry in 1981.

1975	Establishment
1982	First Cooperation in Defence Industry with Aselsan
2004	First Cooperation with Aerospace Industry TAI
2012	ERP system was implemented with the CANIAS
2014	AS9100 Certified
2024	Moved to new factory building (21.500m2) in HAB Osb / Kahramankazan / Ankara/ TURKIYE
	MES production system was implemented with the TIA platform.

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ABOUT US

PRODUCTION AREA

•21.500 m2 in Hab Osb/ ANKARA

WORK FORCE

ENGINEER: 40 TOTAL 200

SECTORS

DEFENCE

AEROSPACE

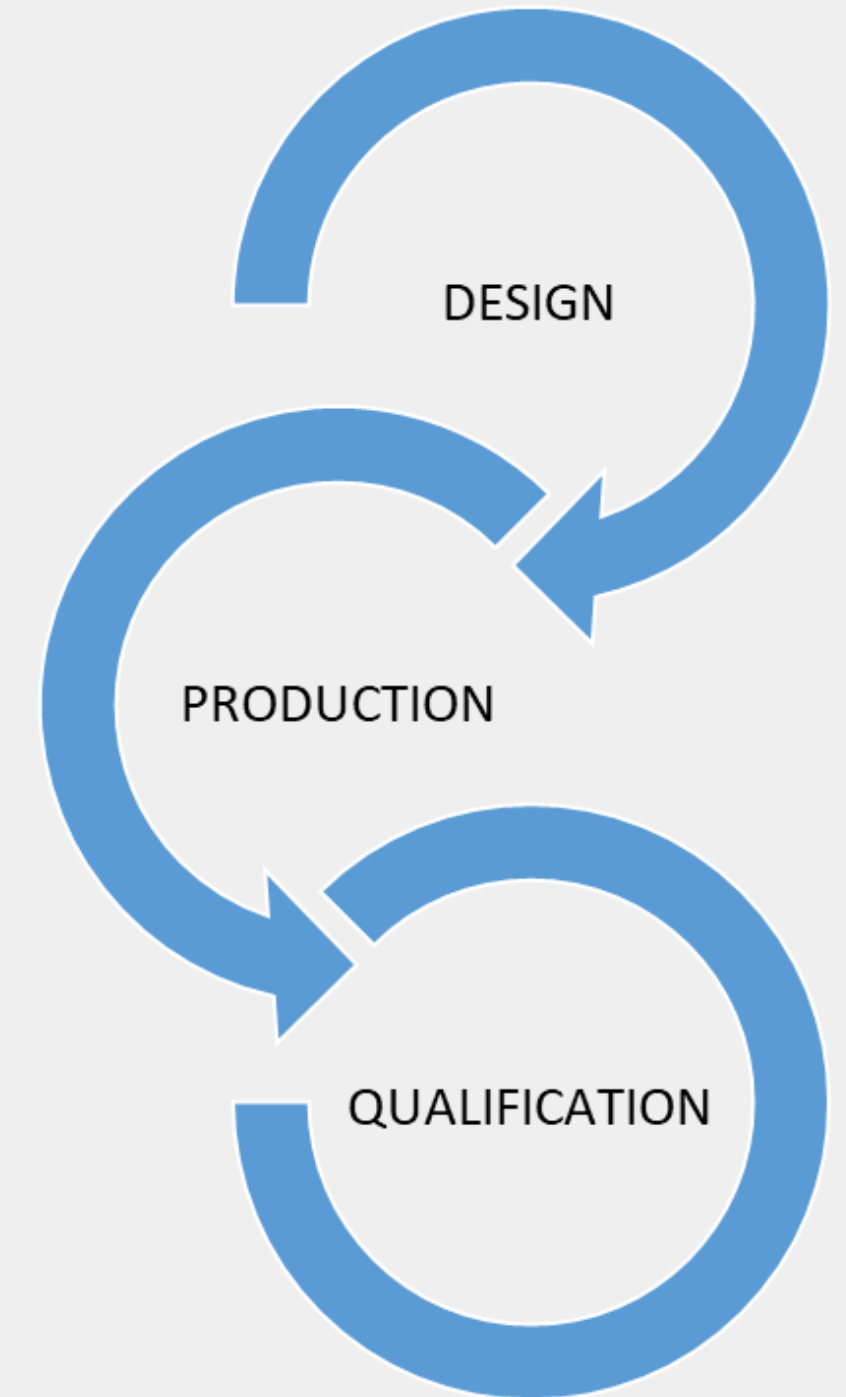
ELECTRIC - ELECTRONIC

ELECTRO MECHANIC

LIGHTING

II WORKSHOPS

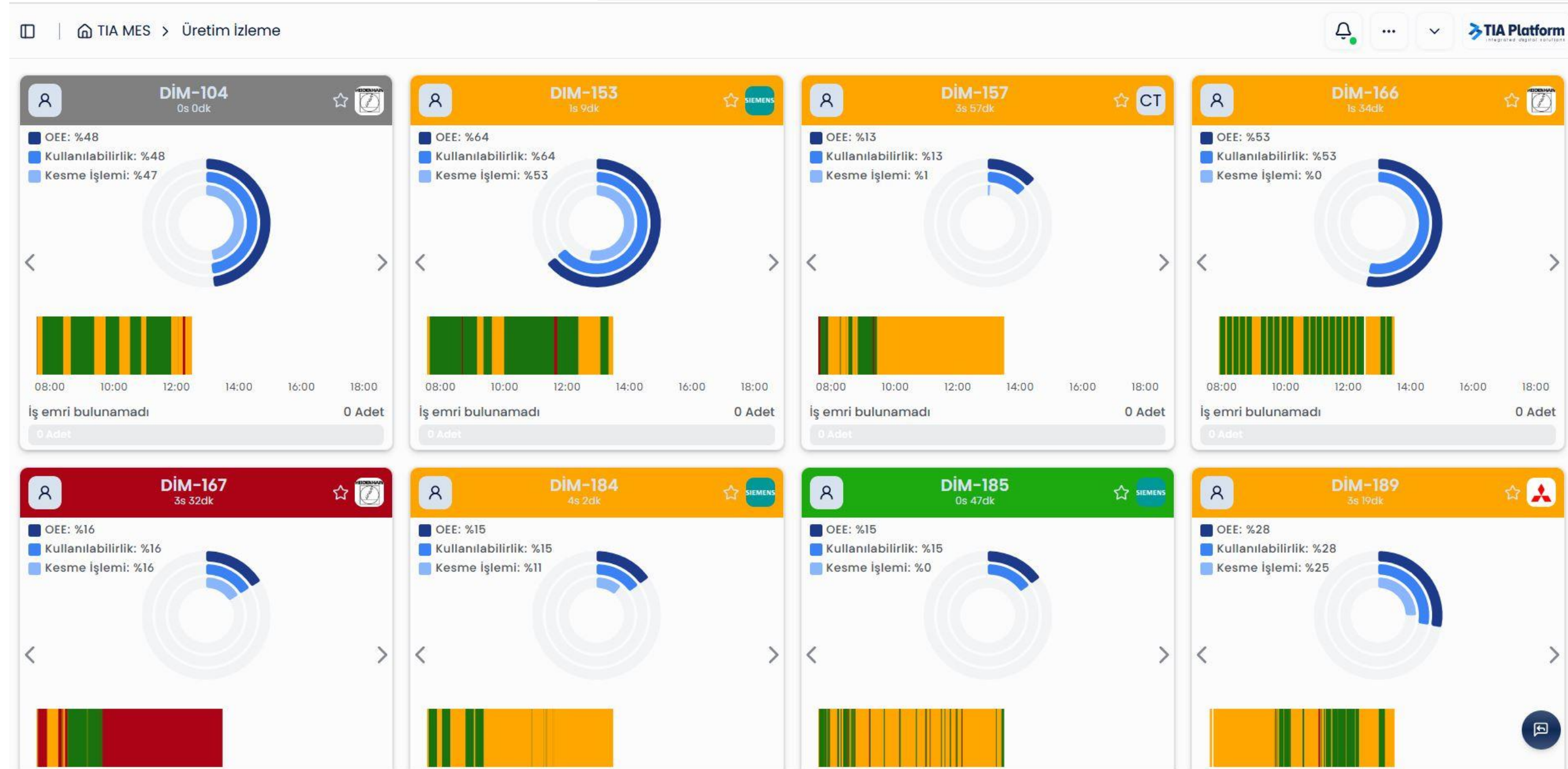
- DESIGN
- SMD ELECTRONICAL ASSEMBLY LINE
- MACHINING
- ADDITIVE MANUFACTURING
- PLASTIC INJECTION AND MOLD DESIGN
- ULTRASONIC WELDING
- COIL WINDING
- ELECTRO MECHANICAL ASSEMBLY
- ENVIRONMENTAL TEST SYSTEMS
- VACUUM CASTING
- MARKING WORKSHOP



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CANIAS ERP and TIA MES SYSTEMS



QUALITY

CMM MACHINES

DAE 1-2-3- AND 5 METER CMM MACHNIES

OPTICAL CMM



MACHINING

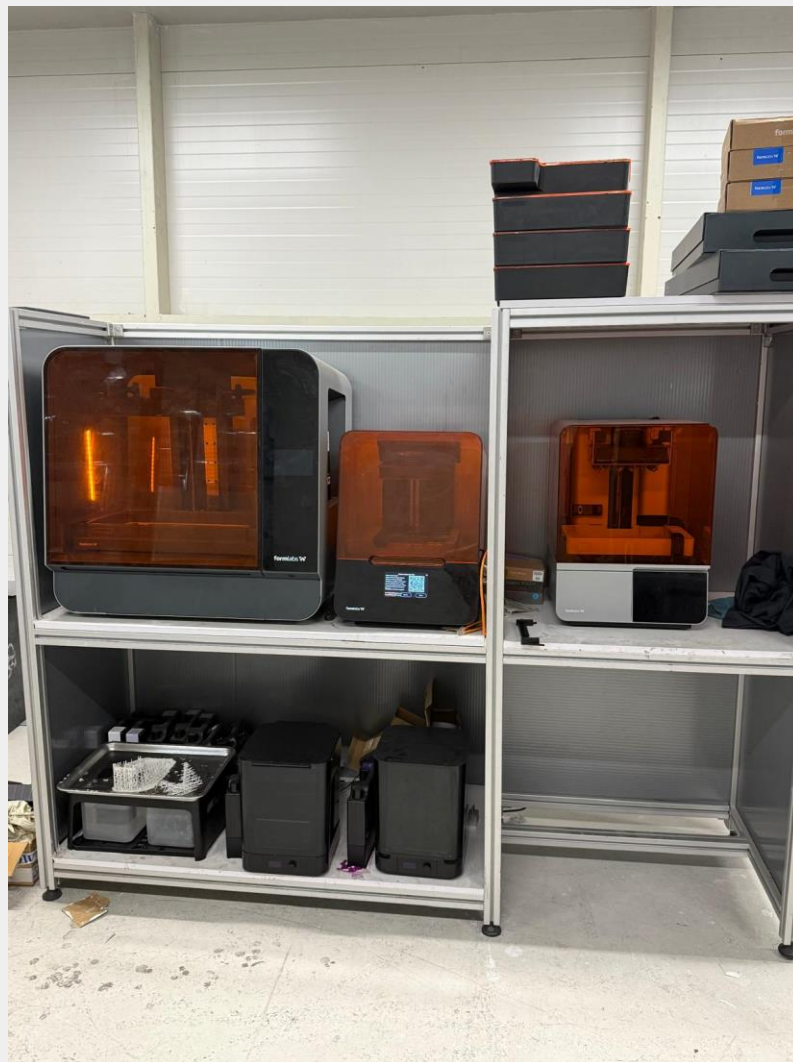
CNC VERTICAL MACHINING CENTERS, MILTURN CENTERS AND CNC TURNING LATHES

- 5 Axes: 1700mm x 3000 mm x h 800 mm
- 3 Axes: 3200mm x 1800mm x h 1000 mm



ADDITIVE MANUFACTURING

SLA and SLS Machines



PLASTIC INJECTION

PLASTIC INJECTION From 1 gr to 1,5 Kg, DESIGN AND PRODUCE PLASTIC INJECTION MOLD.

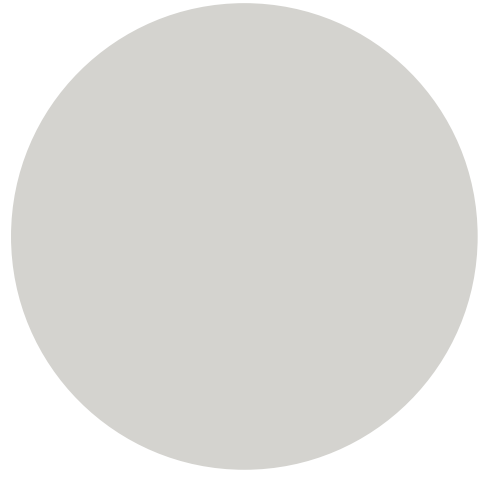


ELECTRONIC

- SMD ASSEMBLY LINE
- PCB SIZE: 510mm x 460mm
- STRING SPEED: 30.000 komponent/hour
- COMPONENT SIZE: 01005(0,4x0,2mm)-70x70mm
- COMPONENT HIGHT: 0,25mm-20mm
- TYPE OF COMPONENT: Pulley, tube, trey
- Sensitivity: forIC material 30μM, For chip material 50 μM

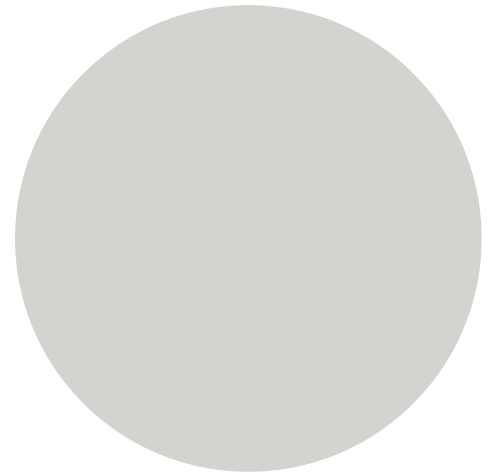


ELECTRIC



- ULTRASONIC WINDING
- COIL WRAPPING WORKSHOP
- VACUUM CASTING WORKSHOP
- MARKING WORKSHOP

TEST ABILITY



- CLIMATE TEST

-80, +180 ° C with humidity module

- VIBRATION AND SHOCK TEST

Plate size: 60x60 cm

Capacity: Full powerbandwidth 20 Hz to 3000 Hz

Max 120 Kg

Test ability according to MIL-STD-810 G and DO-160 G

- TIGHTNESS TEST

- SPRAY TEST

DO-160 G Section 10 Category W

- LIGHTNING TEST

1000 VDC

- SPECIAL DESIGN LIFE CYCLE TEST

- POWER INPUT TEST

DO-160 G , Section 16, Category. Z

- DESIGN AND PRODUCTION SPECIAL TEST
SYSTEMS

HAND CONTROL UNIT-JOYSTICK

AIR VEHICLE

- CYCLIC & COLLECTIVE (HELICOPTER)
- PCL (HÜRKUŞ FOR TURKISH AEROSPACE INDUSTRY)
- THROTTLE GRIP



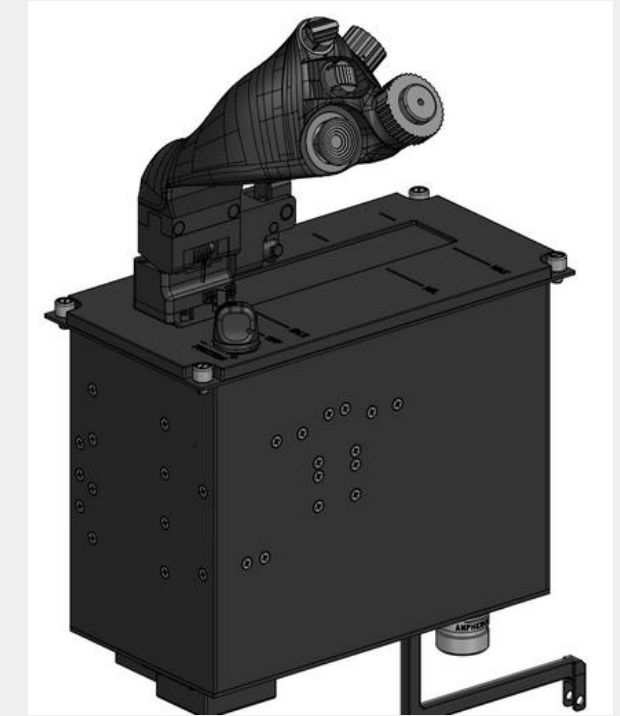
GÖKBEY



MMU- KAAN



HÜRJET



HAND CONTROL UNIT-JOYSTICK

LAND VEHICLES

- GUNNER HCU
- GAMEPAD
- ONE ARM AND
DOUBLE ARM HCU



HAND CONTROL UNIT-JOYSTICK

MARINE VEHICLES

- MARINE COMBAT MANAGEMENT
SYSTEM CONSOLE HCU
- MARINE GUN HCU



SOLENOID

- PGA SOLENOID
- MISSILE IGNITION SOLENOID
 - 35 mm BOMBA SHOOTER
 - 40 mm SOLENOID
 - 12,7 SOLENOID
 - 7,62 SOLENOID
- 12,7 AND 7,62 PUSH- PULL SOLENOID



SLIP RING ROTOR

Massproduction started in April 2016 . Production continues according to our customer ASELSAN 's need .

GENERAL FEATURES

- Outside Diameter 4-1500mm • Max 74 line,
 - Power, signal and data line,
 - Production with harness,
- Contact surface gold or silver



LIGHTING

Cabin interior lighting for
passenger aircraft



INFRARED LED



ALCEN-ADR GROUP REPRESENTATIVE OF TÜRKİYE



ADR

ALCEN

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EMGE®

CERTIFICATES

- A S 9 1 0 0 (B S I)
- I S O 9 0 0 1
- I S O 1 4 0 0 1
- I S O 4 5 0 0 1
- E Y D E P - 4 0 1 (S S B)
- “ N A T O - N A T I O N A L ”

C O N F I D E N T I A L I T Y L E V E L

F A C I L I T Y S E C U R I T Y C E R T I F I C A T E

REFERENCES

- STRATEGICAL PARTNER OF ASELSAN A.Ş. AND TUSAŞ A.Ş.
- APPROVED SUPPLIER OF FNSS , BMC, ROKETSAN, HAVELSAN, KALE HAVACILIK, HAVELSAN TEKNOLOJİ RADAR, LEONARDO ITALY, VALHALLA TURRETS, CARACAL.
- TIER 2: AIRBUS , BOEING, SPIRIT AEROSPACE, SIKORSKY, BOMBARDIER

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