ESAC
ESkişehir Aviation Cluster

A single source center for your aviation needs
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A single source center for your aviation needs

- Electrical - Electronics
- Sheet Metal forming
- Tool and jigs manufacturing
- Precision Turning
- Engine parts manufacturing
- Composite part design and manufacturing
- Wing and Body Structural parts
- Precision Milling
- Cable and wiring harness
- Special processes and NADCAP certified surface treatments
- Assembly and Integration
Eskişehir Aviation Cluster

established in March 2011

- By companies who serves in the aviation sector,
- Representatives of institutions that provides training and education for Aviation
- Experts in the sector who will contribute to the development of the sector
Cluster’s Vision

To be able to rank among the best aviation clusters of the world for our advance production, design, R&D, innovation among the members in addition to qualified work force and supply chain system.

Cluster’s Mission

To provide solutions to aviation market by ensuring sustainable growth of the members based on value-added design, quality, R&D, innovation, production and procurement processes that can compete globally.
Why Clustering in Eskişehir?

To join forces in aviation sector by using:

- Long Aviation History of Region,
- Experience of companies,
- Capabilities,
- Infrastructure of Industry
- Universities,
- Geographical advantages,
- Experienced and Trained labor,
Goals of Cluster

*Establish network of cooperation among the companies in aviation industry and lead to the creation of national and international ties for all members*

- To encourage R & D work, innovation and entrepreneurship,
- To establish commercial, cultural and professional relationships among partners,
- Coordinated Management of Knowledge and Resources,
- Common Advanced Technology Infrastructure
Primary Tasks of Our Cluster

- Guide members to become Solution Partner in Aviation Sector
- Enable the growth of the region and to ensure continuity of Qualified Labor
- Prepare members to compete globally with high quality and low cost
Services and Products from our Members:

- Design and Development
- Electrical - Electronics
- Simulation and test facilities
- Composite Material
- Advanced bench infrastructure
- Metal engine parts
- Sheet Metal forming
- Structural parts
- Plastics - rubber
- Engine and engine components
- Special processes
- Cable and wiring harness
- System integration
- Assembly
Commercially Sensitive and ESAC Confidential Information

Company Information: Tusaş Motor Sanayi A.Ş.
Foundation Year: 1985
Number of Employees: 1100
Field of Activity: Manufacturing of aircraft engine parts, engine installation and test, engineering and technical services, research and development, procurement and sales of aircraft engine parts
Area(m²): Open space: 580.500 m², closed space: 68.290 m²
References: GE, Snecma, Techspace Aero, ITP, Thales, Rolls Royce, THY, Namsa, MTU, Samsung
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Telephone: +90 222 221 21 00
Fax: +90 222 2112101
E-mail: info@tei.com.tr
Web: www.tei.com.tr

Havacılıkta çözüm Eskişehir’de...
Look no further. The answer is in Eskişehir…
Company Information: Alp Havacılık
Foundation Year: 1998
Number of Employees: 352
Field of Activity: Helicopter engine parts, aircraft engine parts, machining
Space (m²): 22500
Quality Certifications: AS 9100, ASQR-01, NADCAP
References: Sikorsky, Boeing, Airbus, Pratt&Whitney, Lockheed Martin, Goodrich, TAI, Hamilton Sundstrand
Address: Organize Sanayi Bölgesi 8. cad. 26110 Eskişehir
Telephone: +90 222 236 13 00
Fax: +90 222 236 12 85
E-mail: alphavacilik@alp.com.tr
Web: www.alp.com.tr
Savronik

Company Information: Savronik
Foundation Year: 1986
Number of Employees: 370
Space (m²): Open Space 30,000 m², closed space 3,500 m²
References: TCDD, TÜLOMSAŞ, CAF, THALES, TAI, ASELSAN, TEI
Address: Organize Sanayi Bölgesi 10.Cad. No:10 Eskişehir
Telephone: +90 222 236 15 90
Fax: +90 222 236 15 89
E-mail: savronik@savronik.com.tr
Web: www.savronik.com.tr
Company Information: Coşkunöz Savunma ve Havacılık
Foundation Year: 2007
Number of Employees: 85
Field of Activity: Aircraft parts, manufacturing of aircraft structural parts, fixture designs and light assembly
Space(m2): 18,000
Quality Certifications: AS 9100, ISO 9001, ISO 14001, OHSAS 18001
References: TAI, KMWE, Boeing, Airbus, LM, TEI, Premium Aerotec, Diehl
Address: Organize Sanayi Bölgesi 19. Cad. No:16 26110 Eskişehir
Telephone: +90 222 236 21 80
Fax: +90 222 239 21 87
E-mail: cshmail@coskunoz.com.tr
Web: www.csh.com.tr
Company Information: Aycan Havacılık
Foundation Year: 1997
Number of Employees: 48
Field of Activity: Manufacturing of precise aircraft engine parts, assembly
Space (m²): 1,500
References: TEI, GEAE, FNSS, ALP Aviation, ITP, TAI
Address: Organize Sanayi Bölgesi 7. Cad. No:46 Eskişehir
Telephone: +90 222 236 2030
Fax: +90 222 236 2032
E-mail: info@aycanaviation.com
Web: www.aycanaviation.com
Company Information: Turbomak
Foundation Year: 2004
Number of Employees: 27
Field of Activity: Motor vehicles, parts and other manufacturing industry
Space (m²): 2000
Quality Certifications: AS 9100, ISO 9001:2000, TAI Supplier Certification, TEI Supplier Certification, Aubert & Duval, Supplier Certification
References: TEI, TAI, Aubert & Duval France, FNSS
Address: Organize Sanayi Bölgesi 7. Cad. No:5 26110 Eskişehir
Telephone: +90 222 236 16 00
Fax: +90 222 236 16 05
E-mail: info@ejs.com.tr
Web: www.ejs.com.tr
Company Information: Nümerik
Foundation Year: 2002
Number of Employees: 30
Field of Activity: Manufacturing of aircraft engine parts, freeze works, manufacturing of mold, design of model and mold, coupling fixtures
Space (m²): 1500
References: TEI, TAI, ASELSAN, ROKETSAN
Address: Organize Sanayi Bölgesi 9. Cadde No:62 Eskişehir
Telephone: +90 222 236 18 66
Fax: +90 222 236 18 68
E-mail: info@numerik.com
Web: www.numerik.com.tr
Company Information: Hisarlar
Foundation Year: 1973
Number of Employees: 800
Field of Activity: Agricultural machinery, chassis, metal components, operator containers
Space (m²): 45,000 m²
References: Agco, Atlas, Bombardier, Çukurova, TEL, Caterpillar
Address: Eskişehir - Bursa Yolu 20. Km 26550 / Eskişehir
Telephone: +90 222 411 24 30
Fax: +90 222 411 22 47
E-mail: hisarlar@hisarlar.com.tr
web: http://www.hisarlar.com.tr

Geleceğe uçuyoruz ...
Fly to the future ...
Company Information: Arıkan
Foundation Year: 1975
Number of Employees: 360
Field of Activity: Car lifting jacks, automotive metal sheet parts, metal sheet parts mold, vehicle door hinge, truck sun roofs
Space (m2): 40,000
Quality Certifications: ISO / TS 16949, ISO 14001, Ford Q1
References: TEI, FNSS, Ford, Toyota, Volvo, Renault, Dacia, Fiat
Address: Organize Sanayi Bolgesi 2. Cad. 26110 Eskişehir
Telephone: +90 222 236 0770
Fax: +90 2222 236 0774
E-mail: arikan@arikankriko.com.tr
Web: www.arikanautomotive.com - www.arikanaviation.com
Company Information: Aydingör
Foundation Year: 1965
Number of Employees: 44
Field of Activity: Engine parts, gear, flange, blade, aircraft engine parts
Space(m2): 5740
Quality Certifications: ISO 9001:2000, TEI Approved Supplier
References: TEI, Alp Aviation, Coşkunöz
Address: Eskişehir Organize Sanayi Bölgesi 8. Cad. No:25 Eskişehir / Turkey
Telephone: +90 222 236 1111
Fax: +90 222 236 1017
E-mail: info@aydingormakina.com.tr
Web: www.aydingormakina.com.tr

Aviation solution provider ...

Havacılıkta çözüm sağlayıcı ...
Company Information: Karcan
Foundation Year: 1996
Number of Employees: 55
Field of Activity: Cutting tool manufacturing
Space (m²): 1000
Quality Certifications: ISO 9001:2000
Address: OSB Tornacilar ve Oto Tamirciler Sitesi R Blok No:3 Eskişehir
Telephone: +90 222 228 1040
Fax: +90 222 228 0613
E-mail: info@karcan.com
Web: www.karcan.com
Company Information: Derin Makina
Foundation Year: 2007
Number of Employees: 12
Number of Employees: Aircraft engine parts manufacturing
Space (m²): 380 m²
Quality Certifications: ISO 9001
References: TEI, Kale Kalıp, Kale Aviation
Address: 75 Yıl Mah. Küçük Sanayiciler Oto Sit B Blok No:9 Eskişehir
Telephone: +90 222 246 0021
Fax: +90 222 246 0022
E-mail: info@derinmakina.com.tr
Web: www.derinmakina.com.tr
Company Information : Busel Makina
Foundation Year : 2005
Number of Employees : 20
Field of Activity : Machine parts, spare parts, lathe and freeze works, cutting tool manufacturing
Space(m2) : 800
Quality Certifications : ISO 9001:2008
References : TEI, Alp Aviation, Coşkunöz, Aycan Makina, Turbomak
Address : KOBI OSB.103. Cad. No:20 Eskişehir
Telephone: +90.222.236.91.40
Fax : +90.222.236.91.41
E-mail : info@buselmakina.com.tr
Web : www.buselmakina.com.tr
Company Information: Akbey Mühendislik
Foundation Year: 2008
Number of Employees: 13
Field of Activity: Design and engineering of Aviation systems, parts and fixtures
Space (m²): 650
Quality Certifications: AS9100 (in processing)
References: TEI
Address: Eskişehir Organize Sanayi, 7. Cd. No: 16 Eskişehir
Telephone: +90 222 236 0482
Fax: +90 222 236 0482
E-mail: akselozturk@akbeymuhendislik.com
Web: www.akbeymuhendislik.com
Company Information: Tomris Makina Sanayi ve Ticaret Ltd. Şti.
Foundation Year: 1965
Number of Employees: 20
Field of Activity: Aircraft engine part manufacturing, fixture, mold manufacturing, machine manufacturing
Space(m2): 2000
Quality Certifications: ISO 9001:2000 pending request
References: TEL, GEAE, COSKUNÖZ, TAI, ALP Havacılık
Address: Kobi Organize Sanayi Bölgesi 104.cadde no:5 Eskişehir
Telephone: +90 222 236 91 21
Fax: +90 222 236 91 22
E-mail: info@tomrismakina.com
Web: www.tomrismakina.com
Company Information: Mikron Mühendislik
Foundation Year: 1985
Number of Employees: 35
Field of Activity: Special processes
Space(m2): 2000
Quality Certifications: AS 9100, Rev.C, ISO-9001, NADCAP
References: TAI, ALP Havacılık, GE, Boeing, Airbus, KAI, Coskunoz, Kucukpazarlı
Address: İvedik OSB Ağaç İşleri Sanayi Sitesi 1376. sokak no:28 İVEDİK/ANKARA
Telephone: +90 312 394 47 03
UK Contact Number: +44 755 4343 742
Fax: +90 312 394 91 22
E-mail: info@mikronmuhendislik.com
Web: www.mikronmuhendislik.com
Company Information: Lider Teknoloji Geliştirme
Foundation Year: 2005
Number of Employees: 5
Field of Activity: R&D, production, integration, business and support services at software and hardware levels in the field of electrical, electronics, machine, computer and all communication systems
Space (m²): 110
References: TÜBİTAK
Address: OSB Teknoloji Bulvarı, Eskişehir Teknoloji Geliştirme Bölgesi, Tekno-C Blok No: 406, Eskişehir
Telephone: +90 222 220 4151
Fax: +90 222 220 4152
E-mail: posta@liderteknoloji.com
Web: www.liderteknoloji.com
Company Information: Zet Redüktör
Foundation Year: 1977
Number of Employees: 41
Field of Activity: Gear and gear box manufacturing
Space (m²): 8,500
Quality Certifications: ISO 9000:2008
References: Alp Aviation, CAF
Address: Organize Sanayi Bölgesi 14.cadde No:17 26110 – Eskişehir
Telephone: 0 222 236 20 17 (4 hat)
Fax: 0 222 236 20 35
E-mail: info@zetreduktor
Website: www.zetreduktor.com
Company Information: Öz Makine Sanayi
Foundation Year: 1998
Number of Employees: 5
Field of Activity: Machining for aviation sector on 4X, 5X machining centers. Primarily bushings.
Space (m²): 240
Quality Certifications: ISO 9001-2008
References: Alp Havacılık Sanayi A.Ş.
Address: Teksan Sanayi Sitesi F6 Blok No:6
Telephone: 0222 228 06 06
Fax: 0222 228 06 07
E-mail: ozmakinasanayi@ttnet.com
Company Information: Alfatec İleri Teknoloji Savunma ve Havacılık Sanayi
Foundation Year: 2005
Number of Employees: 10
Field of Activity: Aircraft engine part manufacturing, fixture, mold manufacturing, machine manufacturing
Space (m²): 5000
References: TEI
Address: Organize Sanayi Bölgesi 5. Cadde No:2 Eskişehir
Telephone: 0222 236 2532
Fax: 0222 236 2533
E-mail: info@alfatec.com.tr
Web: www.alfatec.com.tr
Company Information: ENDEL Endüstri Elektrik San ve Tic. A.Ş.
Foundation year: 1978
Number of Employees: 1352
Field of Activity: Cable grouping activities, the production of condenser and wire baskets, wire and tube bending, welding operations, machine design and manufacture of special machines
Space (m²): 33352
References: Arçelik, Vestel, B/S/H Group, Fagor Group, Candy, Dometic, UK, SNAB, Baymak
Address: OSB Zeytinoğlu Bulvarı, Eskişehir
Telephone: +90 222 236 00 87
Fax: +90 222 236 00 89
E-mail: whitegroup@endel.com.tr
Web: www.endel.com
Company Information: Atard Savunma Ve Havacılık Sanayi İleri Teknoloji Uygulamaları Araştırma Ve Geliştirme A.Ş.
Foundation year: 2010
Number of Employees: 36
Field of Activity: Composite parts manufacturing, engineering services, aerospace and defense industry applications for the manufacture of composite and metal structures design and analysis
Space(m2): 3500
References: Airbus, Alenia, Roketsan, TAI, Aselsan, Meteksan, MKEK, THY Technic, Korea Aerospace Industry, Turkish Cabin Interior, TSI, Otokar, Arçelik, Demirdöküm
Address: OSB 26. Cadde No:8, Eskişehir
Telephone: +90 222 236 85 00
Fax: +90 222 236 85 01
E-mail: info@atard.com.tr
Web: www.atard.com.tr
Company Information: Gate Elektronik Sanayi ve Ticaret A.Ş.
Foundation Year: 1989
Number of Employees: 244
Field of Activity: Electronic combat systems, unmanned systems, air traffic management systems, test systems and equipment, simulation systems, security and tracking systems, communications, and command and control systems
Spacecraft: 13,000
Address: İstanbul yolu 16.km Ayaş Kavşaği No:1-A Yenimahalle / Ankara
Telephone: +90 312 257 07 37
Fax: +90 312 257 23 00
E-mail: gate@gateelektronik.com.tr
Web: www.gateelektronik.com.tr
Company Information: Figes A.Ş.
Foundation Year: 1990
Number of Employees: 61
Field of Activity: Mechanical design, prototyping, manufacturing, structural analysis, fluid dynamics, electromagnetics, acoustics, motion control systems, system modeling
Space (m²): 2000
References: Mercedes Benz, Tofaş, Ford, BMW, Otokar, Renault, MAN, THY, MAKO, TIRSAN, Aselsan, Roketsan, TEI, TAI, Havelsan
Telephone: +90 224 280 85 25
Fax: +90 224 280 85 32
E-mail: info@figes.com.tr
Web: www.figes.com.tr

Geleceğe uçuyoruz ...
Fly to the future ...
Company Information: STM Savunma Teknolojileri Mühendislik ve Ticaret A.Ş.
Foundation Year 1991
Number of Employees: 476
Field of Activity: STM was established in 1991 by the decree of the Defence Industry Executive Committee to provide system engineering, technical support, project management, technology transfer and logistics support services for Turkish Armed Forces (TAF) and Undersecretariat for Defence Industries (SSM).
Space(m²): 9000
Address: Ankara Teknoloji Geliştirme Bölgesi Bilkent Cyberpark, Üniversiteler Mahallesi, 1605.Cadde, No: 3/A 06800, Çankaya/ANKARA
Telephone: ++90 312 266 35 50 (pbx)
Fax: +90 312 266 35 51
E-mail: info@stm.com.tr
Web: www.stm.com.tr
Kuruluş Bilgileri: Tayyar Tasarım ve İmalat
Kuruluş Yılı: 2014
Çalışan Sayısı: 5
Faaliyet Alanı: Savunma, havacilik, raylı sistemler ve diğer sanayi alanlarında kullanılan mekanik sistemlerin tasarıımı, geliştirilmesi, imalatı ve projelendirmesini yapmak, Ar-Ge çalışmalarını yürütme, bu doğrultuda diğer firma, üniversite veya araştırma kurumları ile işbirliği yapmak, türbinli havacılık motorları başta olmak üzere tasarım ve imalat konularında danışmanlık hizmetleri sunmak.
Alan(m2): 320
Adres: 75. Yıl Mahallesi Teksan Sanayi Sitesi B6 Blok No: 1 Odunpazarı / ESKİŞEHİR
Telefon: +90 (222) 228 18 11
Fax: +90 (222) 228 18 11
E-mail: info@tayyartasarim.com
Web: www.tayyartasaim.com
Have access to more resources via building

AVIATION VALLEY

Ankara- Eskişehir-İzmir

Cooperation – Alliance

Goal: Create a single stop resource for all aviation needs
ESAC  Gökyüzünün kanatları ...
ESAC  Wings of the sky ...
Aviation Valley;
To improve aviation sector in the region and become one of the primary component of regional growth in the future

- To create awareness in aviation sector,
- To train workforce to be qualified in industry,
- To encourage cooperation between manufacturers and educational institutions,
- To get prime manufacturers’ and prime contractors’ attention,
- To get local and national investors’ attention,
- To gather cluster development studies in different regions in common ground.
EUROPEAN UNION, THE SEVENTH
FRAMEWORK PROGRAMME (FP7)
CARE PROJECT
(Clear Aerospace REgions)

ESAC has been the project partner of CARE Project carried out by Eskişehir Chamber of Industry (ESO) since 2008.
CARE Project is a special project between the 10 important active clusters in Europe. Eskişehir is included with ESAC, aiming:

- improving collaboration opportunities,
- increasing the awareness of manufacturers and research institutions active in green plane manufacturing,
- supporting the investments in this field

Look no further. The answer is in Eskişehir…
Many topics covered by this CARE project including:

- energy efficiency (greener motor, lighter airplane structures),
- eco-design (Manufacturing, maintenance and recycling of airplanes compliant with REACH regulations),
- green air traffic management and combined green transportation systems.