

Our Commitment – Your Advantage



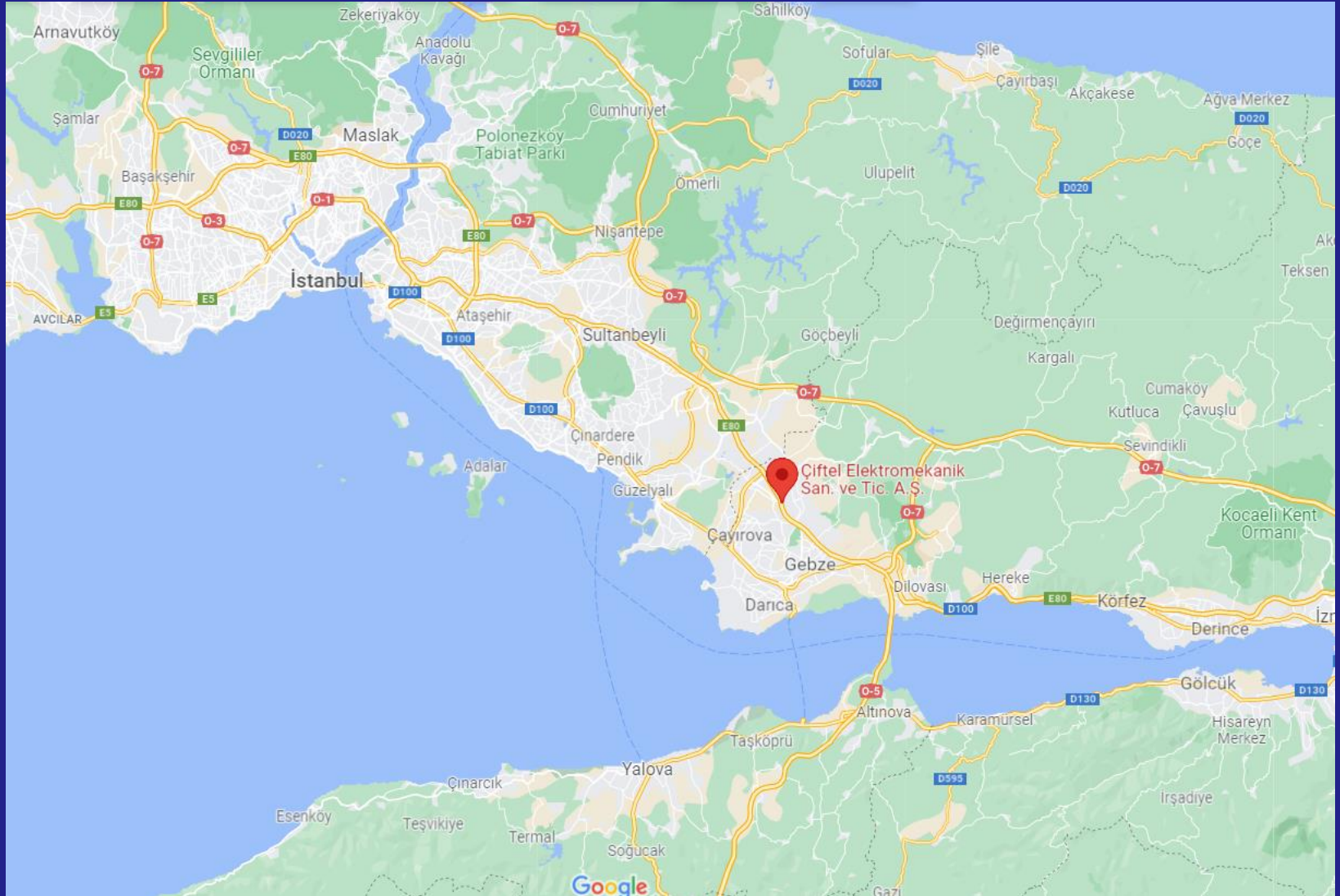
ÇİFTEL ELEKTROMEKANİK

Capable – Innovative – Quick Response



Your capable partner in engineered
electrical components and systems
in automotive and many other industrial appliance

LOCATION



ÇİFTEL's OUTSIDE VIEW



ÇİFTEL's OUTSIDE VIEW



Mile Stones

1990

- **Established in Istanbul**

1992

- **Moved to Beylikdüzü OSB**

1997

- **Turkey's first automotive fuse production & export to EU**

Mile Stones

2001

- **ISO 9001
Certification**

2004

- **New building
project was started
in TOSB.**

2006

- **Moved to New
Factory in TOSB**

Mile Stones

2007

- **As result of R&D works (2 new patented products)**

2008

- **Renewed Quality Laboratory**

2009

- **Investment in modernization of production lines**

Mile Stones

2009

- **Certification of RoHS & ELV**

2010

- **Fuse Export to USA**

2016

- **2nd Factory investment started in TOSB**

Mile Stones

2017

- **Converting from Co. Ltd. to Join Stock Co.**

2018

- **Certification of;
IATF 16949:2016
ISO 9001:2015
ISO 14001:2015
BS OHSAS 18001:2007**

2020

- **Certification of
ISO 45001:2018**

PRODUCTION LINES



PRODUCTION LINES



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PRODUCTION LINES



PRODUCTION LINES



QUALITY LABORATORY



QUALITY LABORATORY



QUALITY LABORATORY



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QUALITY LABORATORY



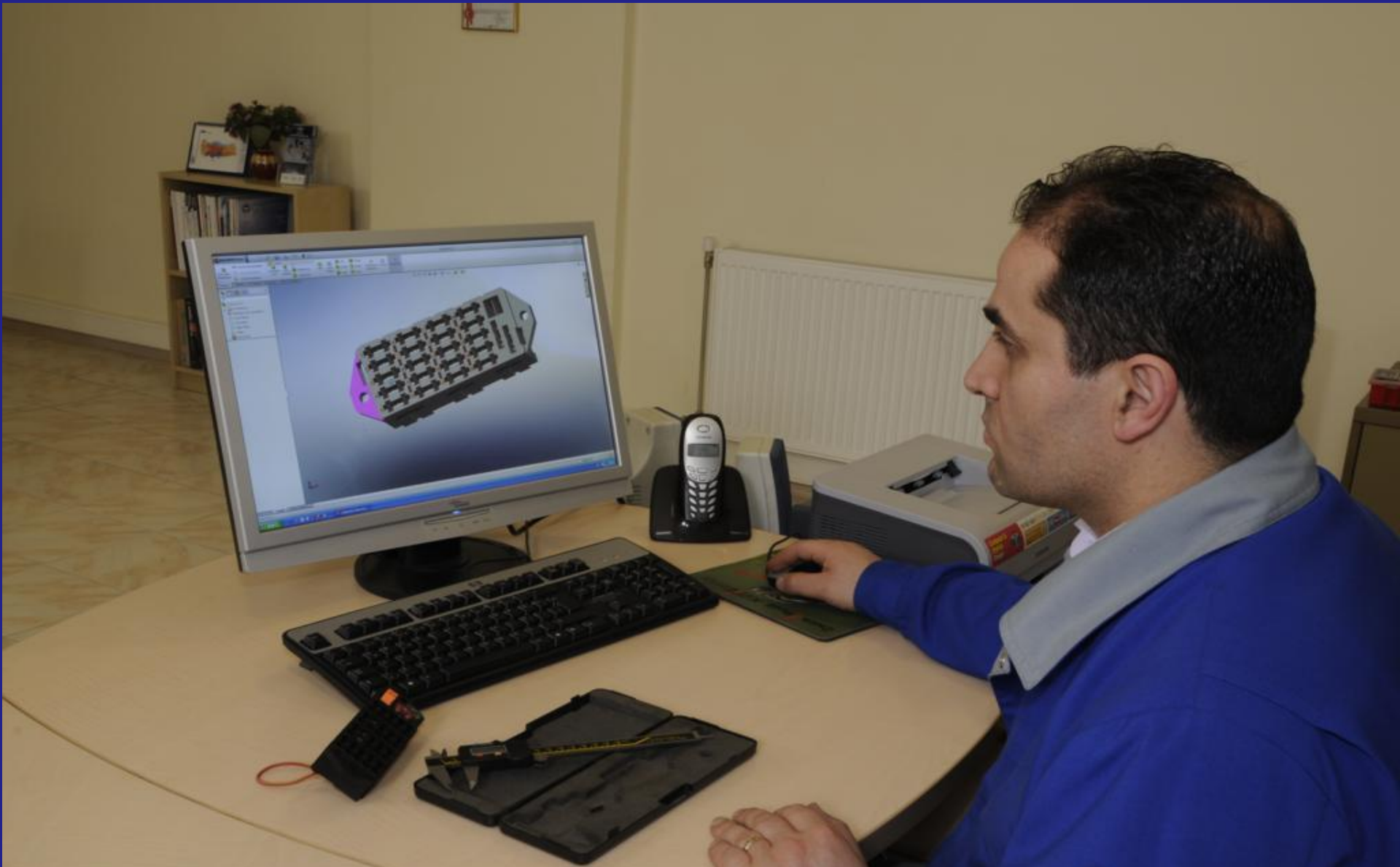
QUALITY LABORATORY



QUALITY LABORATORY



R&D WORKS



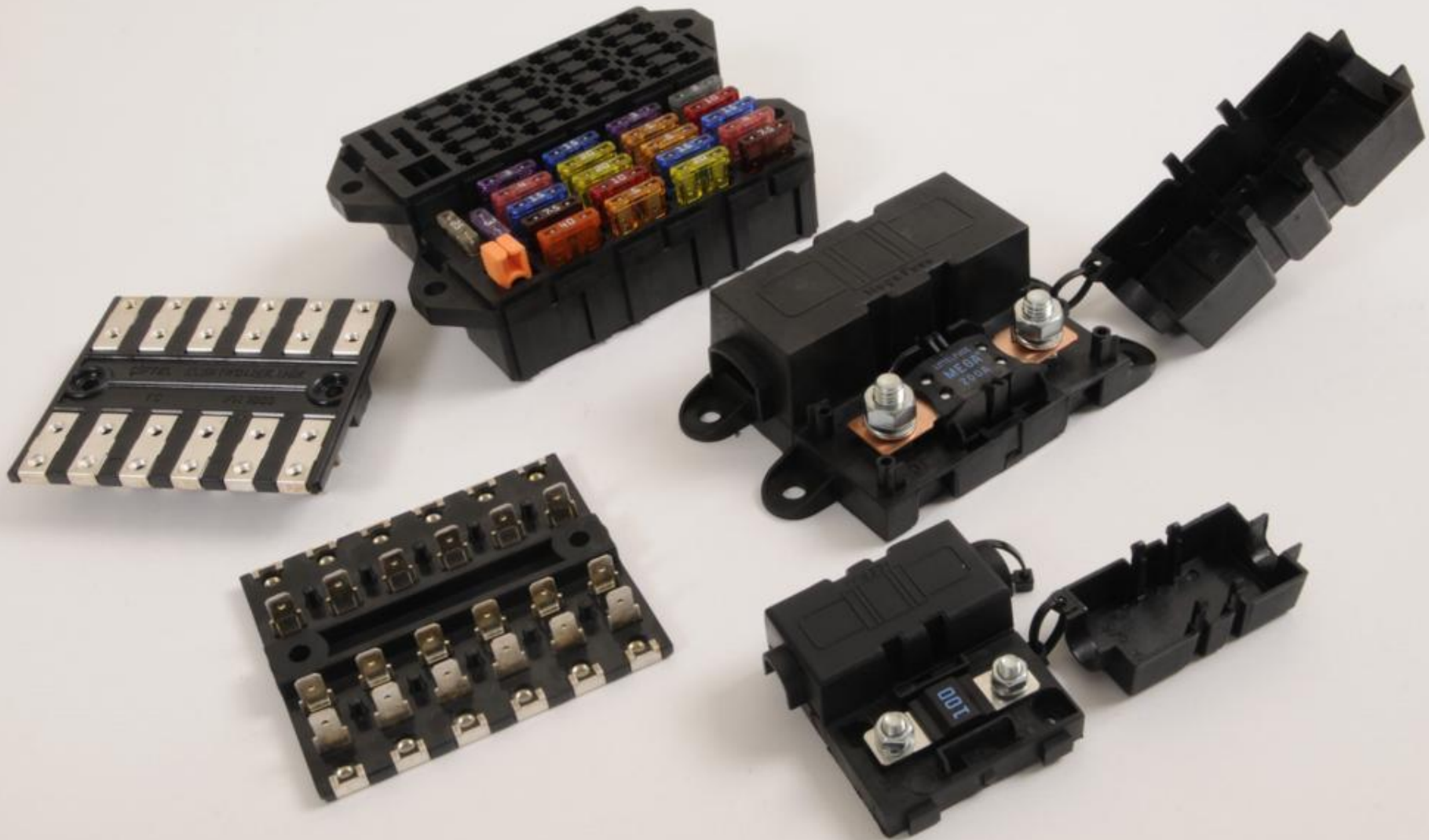
R & D WORKS



DELIVERY



PRODUCTS: FUSE BOXES / HOLDERS



PRODUCTS: JOINED FUSE BOX / HOLDER



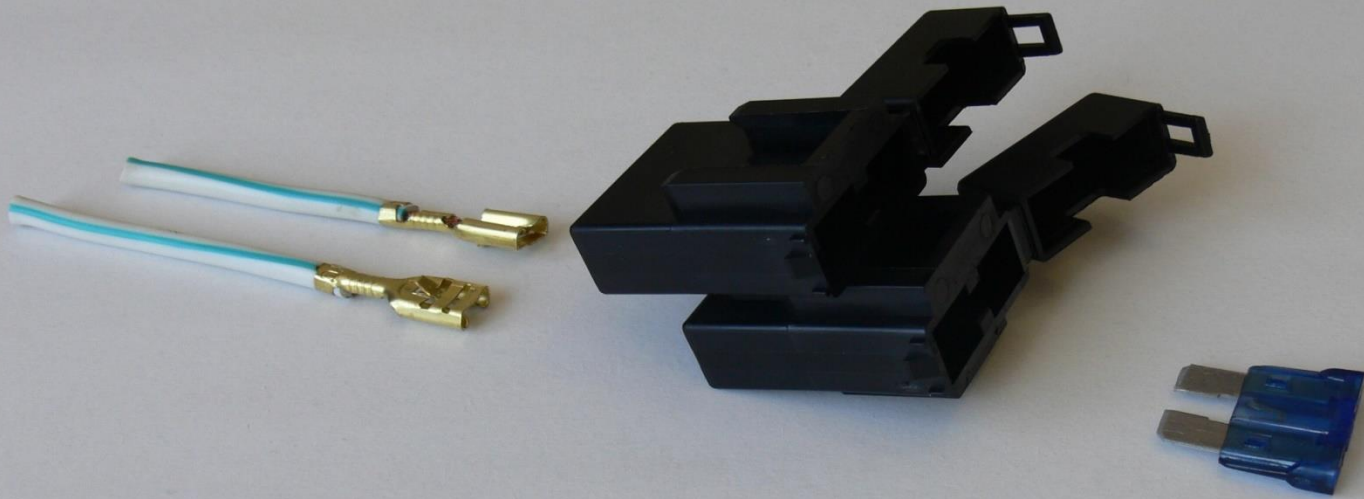
PRODUCTS: MODULAR FUSE BOXES



PRODUCTS: COMBI FUSE HOLDER



SINGLE FUSE HOLDERS CAN BE JOINED



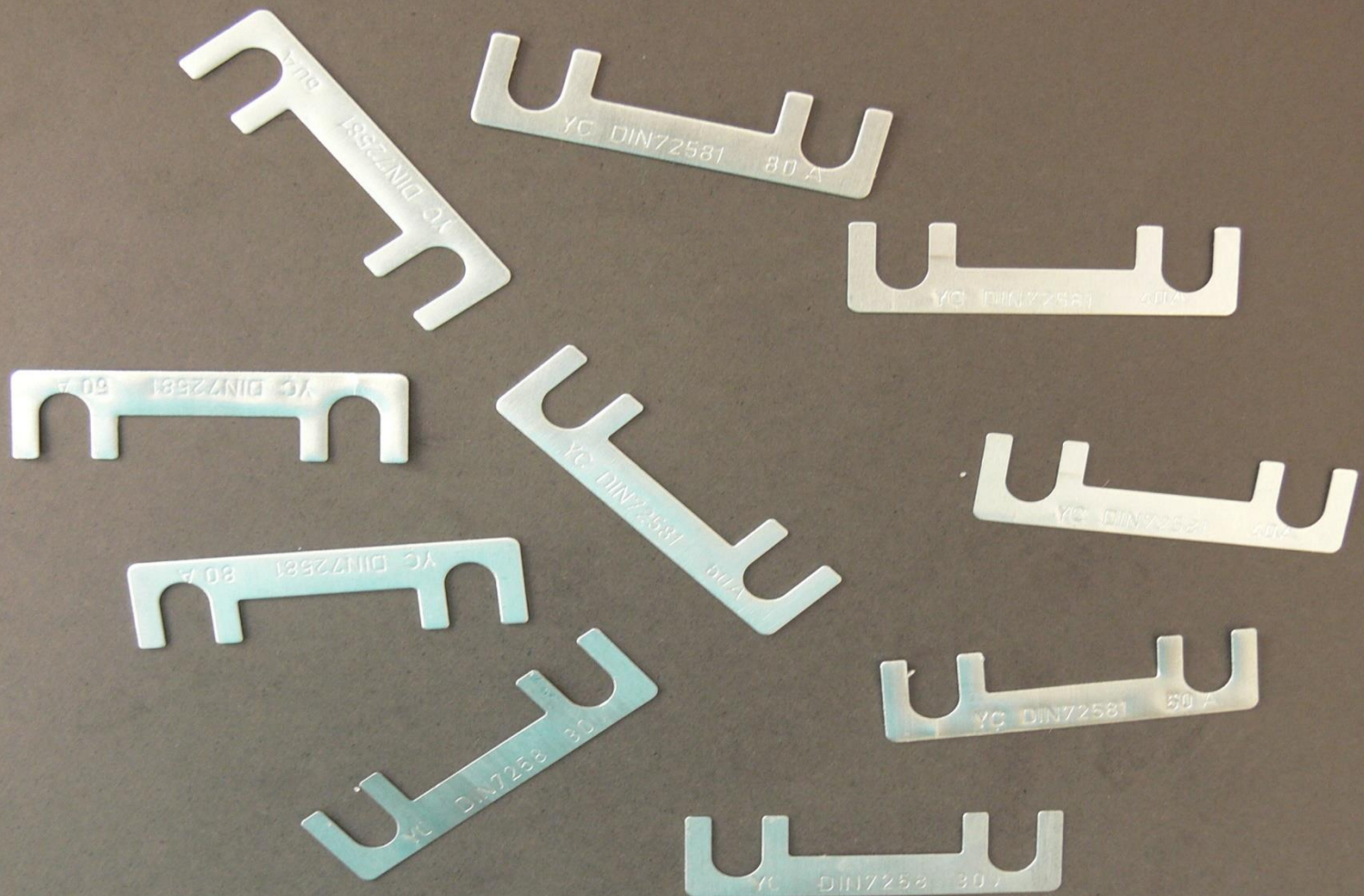
TORPEDO FUSES



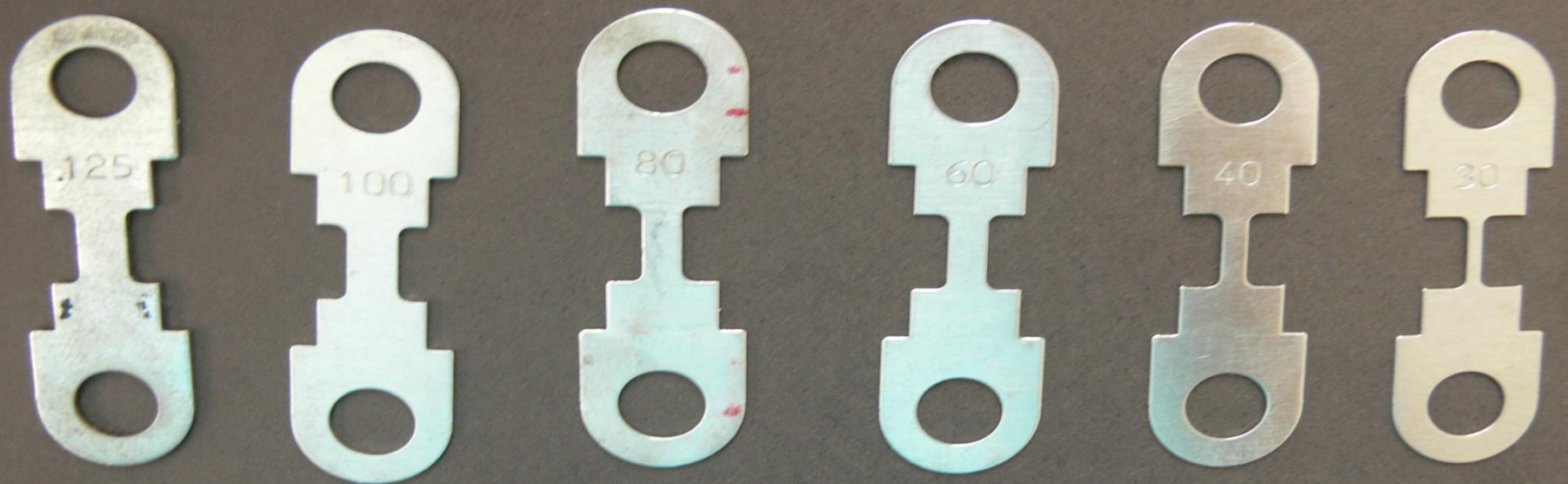
BLADE TYPE FUSES



STRIP FUSES (U-TYPE)



STRIP FUSES (O TYPE)



BATTERY CABLE TERMINALS (Copper & plated)



CABLE TERMINALS (Copper, Brass & plated)



CERTIFICATES

IATF 16949:2016

ISO 9001:2015

ISO 14001:2015

TUV NORD

CERTIFICATE

Management system as per
IATF 16949:2016
(1st edition, 2016-10-01)

Evidence of conformity with the above standard has been furnished and is certified for

Çiftel Elektromekanik San. ve Tic. A.Ş.
TOSB Otomotiv Yan San. İhtisas Org. San. Bölğ.
3. Cad., No: 5-1, Şekerpınar, Çayırova
41420 Kocaeli
Turkey

Scope

**Design and manufacturing of fuse and fuse holders;
Manufacturing of cable terminals and washers**

IATF Registration No. 0310722
Certificate Registration No. 44 111 180440

Issue date: 2018-05-17
Expiry date: 2021-05-16

[Signature]
Certification body
at TÜV NORD CERT GmbH

Essen, 2018-05-17

This certification was conducted in accordance with the IATF „Rules for achieving and maintaining IATF recognition“.

TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.de

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TUV NORD

CERTIFICATE

Management system as per
ISO 9001 : 2015

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

Çiftel Elektromekanik San. ve Tic. A.Ş.
TOSB Otomotiv Yan San. İhtisas Org. San. Bölğ. , 3. Cad., No 5-1,
Şekerpınar, Çayırova,
TR-41420 Kocaeli,
Turkey



applies a management system in line with the above standard for the following scope

Design, production, marketing and sales of cable terminals, auto fuses, fuse holders, auto bulb holders, headlight plugs, copper-aluminum-fiber washers, ignition cable kits, various cable groups

Certificate Registration No. 44 100 093551
Audit Report No. TR 533

Valid from 2018-05-24
Valid until 2021-05-23
Initial certification 2009

[Signature]
Certification Body
at TÜV NORD CERT GmbH

Istanbul, 2018-05-24

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 Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

1800

TUV NORD

CERTIFICATE

Management system as per
ISO 14001 : 2015

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

Çiftel Elektromekanik San. ve Tic. A.Ş.
TOSB Otomotiv Yan San. İhtisas Org. San. Bölğ. , 3. Cad., No 5-1,
Şekerpınar, Çayırova,
TR-41420 Kocaeli,
Turkey



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Certificate Registration No. 44 104 093551
Audit Report No. TR 533

Valid from 2018-01-25
Valid until 2021-01-24
Initial certification 2018

[Signature]
Certification Body
at TÜV NORD CERT GmbH

Istanbul, 2018-01-25

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 Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

17003

CERTIFICATES

ISO 45001:2018

RoHS

ELV



CERTIFICATE

Management system as per
ISO 45001:2018

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

Çiftel Elektromekanik San. ve Tic. A.Ş.
TOSB Otomotiv Yan San. İhtisas Org. San. Böl., 3. Cad., No 5-1,
Şekerpınar, Çayırova,
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Turkey



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Certificate Registration No. 44 126 063551
Audit Report No. TR 533

Valid from 2018-01-25
Valid until 2021-01-24
Initial certification 2018

[Signature]
Certification Body
TÜV NORD CERT GmbH

Istanbul, 2020-01-07

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 Langemarkstraße 20 45141 Essen www.tuv-nord-cert.com



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TEST REPORT

Page 1 of 4

REPORT NUMBER: TURRO961331 - REVISED I

APPLICANT NAME: Çiftel Elektromekanik San. ve Tic. Ltd. Şti.

ADDRESS: TOSB TAYSAO OSB 3. Cad. No:5 Şekerpınar Çayırova Kocaeli TÜRKİYE
FAX NO: +92 212 471 11 72
Attention: Elner Çiftel (ciftel@ciotel-tur.com)

SAMPLE DESCRIPTION:
Sample 1: One sample of Brass Terminal
Sample 2: One sample of Blade Terminal (Tin coated)
Sample 3: One sample of Brass Terminal (Silver coated)
Sample 4: One sample of Steel terminal
Sample 5: One sample of Solder tag (Copper cable terminal)
Sample 6: One sample of Auto fuse (Blade type)
Sample 7: One sample of Auto fuse (Topcico type)
Sample 8: One sample of Fuse holder
Sample 9: One sample of Copper washer

DATE IN: 31 July, 2009

DATE OUT: 06 August, 2009 / 07 August, 2009

REQUEST: ELV Test was performed on the items.

RESULTS: See attachment

NOTE: In this revised report, Address, Mail address and Sample description were changed by the request of the vendor.
This report replaces the report no TURRO961331, dated on 06 August, 2009, and must be used instead of it.

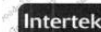
Testing Item	Conclusion
Sample 1	PASS
Sample 2	PASS
Sample 3	PASS
Sample 4	PASS
Sample 5	PASS
Sample 6	PASS
Sample 7	PASS
Sample 8	PASS
Sample 9	PASS

The test results apply only to the items tested. The report must not be misinterpreted as a full approval of the manufacturer of the laboratory. The report is confidential and is issued in accordance with the requirements of the standard. The report is confidential and is issued in accordance with the requirements of the standard. The report is confidential and is issued in accordance with the requirements of the standard.

Intertek Test Hizmetleri A.Ş.
Fahri Cad. Dereboyu Sok. No: 4/2 34303 Halkalı - İSTANBUL / TÜRKİYE
Phone: +92 212 471 00 65 Fax: +92 212 471 11 72
e-mail: labtest.turkey@intertek.com
www.intertek-labtest-tur.com



Intertek Test Hizmetleri A.Ş.
Fahri Cad. Dereboyu Sok. No: 4/2 34303 Halkalı - İSTANBUL / TÜRKİYE
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RESULTS

Page 2 of 4

REPORT: TURRO961331 - REVISED I

07 August, 2009

(A) Test Method Summary

Testing Item	Sample 1	Sample 2	Sample 3	Sample 4	ELV Limit (ppm)
Cadmium (Cd) Content	ND	ND	ND	ND	0.01 % (100 ppm)
Chromium VI (Cr+6) Content (ppm) (for non-metal)	NA	NA	NA	NA	0.1 % (1000 ppm)
Chromium VI (Cr+6) Content (ppm) (for metal)	ND	ND	ND	ND	0.1 ppm
Lead (Pb) Content	ND	ND	ND	ND	0.1 % (1000 ppm)
Mercury (Hg) Content	ND	ND	ND	ND	0.1 % (1000 ppm)
	Sample 5	Sample 6	Sample 7	Sample 8	
Cadmium (Cd) Content	ND	ND	ND	ND	0.01 % (100 ppm)
Chromium VI (Cr+6) Content (ppm) (for non-metal)	NA	NA	NA	NA	0.1 % (1000 ppm)
Chromium VI (Cr+6) Content (ppm) (for metal)	ND	ND	ND	ND	0.1 ppm
Lead (Pb) Content	ND	22 ppm	138 ppm	ND	0.1 % (1000 ppm)
Mercury (Hg) Content	ND	ND	ND	ND	0.1 % (1000 ppm)
	Sample 9				
Cadmium (Cd) Content	ND				0.01 % (100 ppm)
Chromium VI (Cr+6) Content (ppm) (for non-metal)	NA				0.1 % (1000 ppm)
Chromium VI (Cr+6) Content (ppm) (for metal)	ND				0.1 ppm
Lead (Pb) Content	ND				0.1 % (1000 ppm)
Mercury (Hg) Content	ND				0.1 % (1000 ppm)

Remarks: ppm=Parts per million based on dry weight of sample.
ppm=Microgram per square centimetre.
mg/kg with 50 cm² Milligram per kilogram with 50 square centimetre.
-NA=Not detected -ND=Not detectable -NA=Not applicable -ND=Not required

(B) Test Method

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to BS EN 1122:2004 Method B/US EPA 3050/US EPA 3052 by acid digestion and determined by ICP-AES.	2 ppm
Lead (Pb) Content	With reference to US EPA 3050/US EPA 3052 by acid digestion and determined by ICP-AES.	2 ppm
Mercury (Hg) Content	With reference to US EPA 3052 by acid digestion and determined by ICP-AES.	2 ppm
Chromium VI (Cr+6) Content (ppm) (for non-metal)	With reference to US EPA 3052 by acid digestion and determined by UV-Vis spectrophotometer.	2 ppm
Chromium VI (Cr+6) Content (ppm) (for metal)	With reference to pr EN 13055:2008 by determined by UV-Vis spectrophotometer.	0.1 x 10 ⁻³ ppm



Intertek Test Hizmetleri A.Ş.
Fahri Cad. Dereboyu Sok. No: 4/2 34303 Halkalı - İSTANBUL / TÜRKİYE
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e-mail: labtest.turkey@intertek.com
www.intertek-labtest-tur.com



**ÇİFTEL ELEKTROMEKANİK
SANAYİ ve TİCARET A.Ş.**

**TOSB Otomotiv Yan Sanayi ihtisas OSB 3. Cadde No:5-1 ŞEKERPINAR
41420 ÇAYIROVA / KOCAELİ-TURKİYE**

Tel : +90 262 658 18 10 PbX. Fax: +90 262 658 10 29

E-mail : ciftel@ciftel-ltd.com

Web : www.ciftel-ltd.com