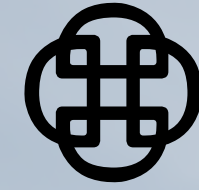


DAL



DAL ENGINEERING GROUP

**ÇORLU EUROPEAN
FREE ZONE WORKSHOP**

DAL WORKSHOP

ABOUT DAL ENGINEERING GROUP

One of the world's leading engineering companies that provides machinery, equipment and customized solution for turnkey industrial projects for;

- Cement and Minerals
- Lime
- Gypsum
- Coal
- Energy and Environmental Technologies



DAL WORKSHOP

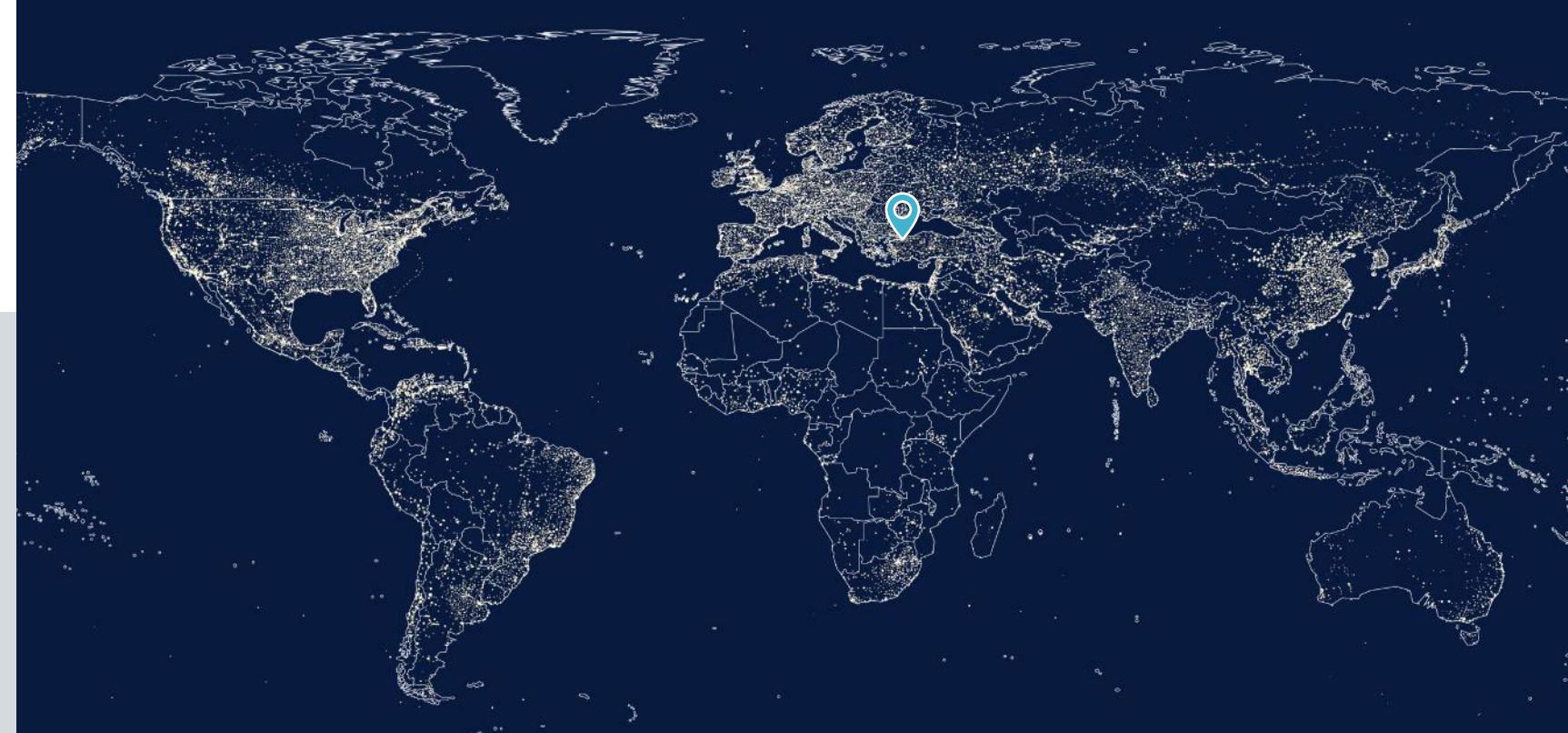
FOR MANUFACTURING

Location : Çorlu / ASB European Free Zone / Türkgücü

Our workshops are located in one of the biggest and modern industry parks of Turkey called **European Free Zone** and as well as in Industrial area of Türkgücü.

EFZ, founded on a land of 2 million square meters in Çorlu/Tekirdağ which is located in the center of Istanbul, close to Europe and major transportation networks.

The production of the world's leading brands takes place in this zone.



● EFZ

○ Türkgücü

● Headquarters

DAL WORKSHOP

FOR MANUFACTURING

Well designed modular manufacturing workshop, equipped with an easy access to loading docks for trucks, raised flow levers and clear open space.

Each unit has its own dedicated loading yard with ram access for forklifts and has an ample on site parking.

All units are built with the following specifications:

SPECIFICATIONS	EFZ	Türkgücü
Indoor area	10.000 m ² (each building 5.000 m ²)	6.000 m ²
Surrounding area	25.000 m ²	9.000 m ²
Height under the crane	10,5 m	10 m
Management building	3 stages 500 m ²	400 m ²



BENEFITS OF OUR WORKSHOP LOCATION IN EFZ

Our presence in the European Free Trade Zone brings **DEG** close to our markets in Central & Eastern Europe, the Middle-East and North Africa.

Manufacturing companies staying within free zone, custom related taxes and regulations are not applicable. Such as;

- **Value Added**
- **Tax Customs**
- **Duties**
- **RUSF Tax (6%)**

Total Area:	2.000.000 m ²
Establishment Year:	1999
Company Number:	150
Trade Volume:	2.4 billion \$



DAL WORKSHOP

OVERALL LAYOUT



DAL WORKSHOP
OVERALL LAYOUT



DAL WORKSHOP
OVERALL LAYOUT

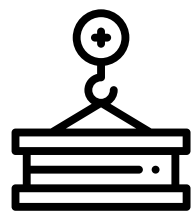


DAL WORKSHOP
OVERALL LAYOUT

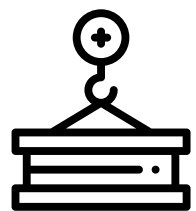


DAL WORKSHOP

OVERHEAD CRANES



4 x 60 tons
32+(32+10)
double hook



2 x 16 tons
single hook

TRANSPORTATION NETWORKS - MOTORWAY



<u>DISTANCE</u>	
Ankara	570 km
Greece (İpsala)	125 km
Bulgaria (Kapıkule)	125 km
İstanbul Atatürk Airport	110 km
Tekirdağ	35 km

TRANSPORTATION NETWORKS - SEA PORTS



<u>DISTANCE</u>	
Ambarlı	80 km
Akport	45 km

MACHINE INFORMATION



Leopoldo Pontiggia

Turning Diameter Over Slide Rest: 820 mm

Turning Length: 8000 mm

Swing Over Carriage: 1000 mm

Table Diameter : 1000 mm

Spindle Speed: 4,2 - 400 rpm

Weight: 15 ton

Spindle Bore: 102 mm

Controls : Siemens 808D Advanced T CNC Systems

Power: 37 kw

MACHINE INFORMATION



DOOSAN LYNX220 Lathe Turning Center 8 INC

Diameter: 8"

Axis Travel: Ø320 mm L: 305 mm

CNC Horizontal Lathe D6000 mm x 18000 mm

Max. turning dia. D6000 mm

Min. turning dia. D780 mm

Siemens 840Dsl CNC Systems

Max. Weight: 120 tons (150 tons)

Double-Geared Drives

C-Axis

Welding Module

CNC Horizontal Lathe D4000 mm x 14000 mm

Max. turning dia. D4000 mm

Min. turning dia. D2500 mm

Siemens 840Dsl CNC Systems

Max. Weight: 80 tons

Double-Geared Drives

MACHINE INFORMATION



HYUNDAI KH63G
Horizontal Machining Center

Number of Axis: 4-Axis
Axis Travel: 950 x 825 x 760 mm



Makino A99
Horizontal Machining Center

Number of Axis: 4-Axis
Axis Travel: 1000 x 800 x 650 mm



HYUNDAI wia 5000
Horizontal Machining Center

Number of Axis: 4-Axis
Axis Travel: 800 X 700 X 750 mm

MACHINE INFORMATION



Boring Mills

Makino A99 Horizontal Machining Center

Axis Travel: 1000 x 1000 x 950 mm

Pallet Size: 800 x 800

Max. Pallet Load: 1.800 kg



Moving Column Zayer CNC Horizontal

Vertical-Horizontal Stroke: 3000 x 10000 mm

Axis Travel: 1500 mm

CNC Rounding Table: 2500 x 2500 mm

MACHINE INFORMATION



DOOSAN DNM 650 II Vertical Machining Center

Number of Axis: 3-Axis

Axis Travel: 1270 x 670 x 625 mm



AWEA EP 3016 Vertical Machining Center

Number of Axis: 3-Axis + C-Axis

Axis Travel: 3000 x 1600 x 800 mm



KENT Vertical Machining Center

Number of Axis: 3-Axis + C-Axis

Axis Travel: 3300 x 1600 x 800 mm



KAFO RV 4135

Number of Axis: 3-Axis + AUTO C-Axis

Axis Travel: 4100 x 3500 x 1300 mm

MACHINE INFORMATION



Vertical Drilling Machine MAS VR84A

Capacity: 4000 x 2785 mm

Arm Length: 4000 mm

Max. Drilling Diameter: 110 mm



Csepel Radial Drilling Machine RHP 75

Drilling Diameter: 75 mm

Arm Length: 1500 mm

Max. Drilling Depth: 380 mm

MACHINE INFORMATION



Hydraulic Plate Roll Machine AHS 3100 / 40 - 50

Op. Length: 3100 mm

Max. Thickness: 50 mm



Hydraulic Plate Roll Machine AHV 3100 / 130 - 144

Op. Length: 3100 mm

Max. Thickness: 144 mm

MACHINE INFORMATION



Combined Plasma-Welding Machine AJAN 3.000 x 15.000 mm

Pipes Ranged Between: 50 and 600 mm

Plate Thickness: Up to 200 mm

Precision Plasma: 130 / 260 Amper

Automatic Torch Height Control

Welding Equipment

Heavy Duty Column Boom System -6 x 7

Self Aligning Rotators - Capacity: Up to 150t

Lincoln - Power Ware AC/DC1000SD - Tandem

DAL WORKSHOP

PACKING and SHIPPING

DEG provides complete shipping solutions including insurance packing, loading-unloading lashing, and delivery.

DEG has the unique ability to provide engineered packing solutions based on machines and equipment's requirements.

The best packing and crating options to ensure that machines and equipments arrive safe, damage-free and on time.



DAL WORKSHOP

DESIGN SOFTWARES



Realize Your Product Promise



HSC Chemistry 9



DAL WORKSHOP CERTIFICATES

PCA
PARTNERS CERTIFICATE
ASSURANCE



Certificate

ISO 9001 : 2015

**FONS TEKNOLOJİ İNTERNASYONEL
MAKİNA SAN. VE TİC. LTD. ŞTİ.**
Şirinevler Mah. A.Kahveci Biv. Haydar Akın İş Mrk -1 No:206/5 Bahçelievler
İstanbul/ TURKEY

This certificate shows that the quality management system of the above company was approved by PCA Sertifikasyon for the following scope, the validity of the certificate depends on the company's pass the annual surveillance audits and company's maintenance the related management system conditions according to international accreditation criteria.

SCOPE
Clinker cooler, clinker crusher and pyro-line (the pre-heater and oven) equipment, process fans design, manufacturing, sales, engineering and installation services for cement factories

Certificate No : KY-23586
Registration Date : 21.08.2017
Release Date :
Expiry Date : 20.08.2018
Certificate Period : 3 Years (From the date of registration)



ACCREDITED
Management
Systems
Certification Body
MSCB-103

PCA Certification Approval

PCA Sertifikasyon Hizmetleri Limited Şirketi
Ataköy Mah. Çanakkale Cadde No:79 D:3 Kat:1 / İSTANBUL
Tel: +90 216 510 63 48-49 Faks: +90 216 517 63 49
www.pca-tr.com info@pca-tr.com

FR.06 Rev.2

PCA
PARTNERS CERTIFICATE
ASSURANCE



Certificate

ISO 14001 : 2015

**FONS TEKNOLOJİ İNTERNASYONEL
MAKİNA SAN. VE TİC. LTD. ŞTİ.**
Şirinevler Mah. A.Kahveci Biv. Haydar Akın İş Mrk -1 No:206/5 Bahçelievler
İstanbul/ TURKEY

This certificate shows that the environmental management system of the above company was approved by PCA Sertifikasyon for the following scope, the validity of the certificate depends on the company's pass the annual surveillance audits and company's maintenance the related management system conditions according to international accreditation criteria.

SCOPE
Clinker cooler, clinker crusher and pyro-line (the pre-heater and oven) equipment, process fans design, manufacturing, sales, engineering and installation services for cement factories

Certificate No : CV-3544
Registration Date : 21.08.2017
Release Date :
Expiry Date : 20.08.2018
Certificate Period : 3 Years (From the date of registration)



ACCREDITED
Management
Systems
Certification Body
MSCB-103

PCA Certification Approval

PCA Sertifikasyon Hizmetleri Limited Şirketi
Ataköy Mah. Çanakkale Cadde No:79 D:3 Kat:1 / İSTANBUL
Tel: +90 216 510 63 48-49 Faks: +90 216 517 63 49
www.pca-tr.com info@pca-tr.com

FR.06 Rev.2

TQV

CERTIFICATE

Certificate No. : 2017/598/OHSAS

This is to Certify that the
Occupational Health and Safety Management system of

**FONS TEKNOLOJİ İNTERNASYONEL MAKİNA
SANAYİ VE TİCARET LİMİTED ŞİRKETİ**

ŞİRİNEVLER MAH. A.KAHVECİ BULVARI HAYDAR AKIN İŞ MERKEZİ 1
No:206 K:5 BAHÇELİEVLER/İSTANBUL/TÜRKİYE

has been independently assessed and is compliant
with the requirements of

OHSAS 18001:2007

For the following activities
Clinker Cooler, Clinker Crusher and Pyro-Line (The Pre-Heater and Oven) Equipment,
Process Fans Design, Manufacturing, Sales, Engineering and
Installation Services for Cement Factories

Çimento Fabrikaları İçin Klinker Soğutma, Klinker Kırıcı ve Pyro-Line (Ön Isıtıcı ve Fırın)
Ekipmanları, Proses Fanları Dizaynı, İmalatı, Satışı, Mühendislik ve Montaj Hizmetleri

Further clarifications regarding the scope of this certificate and the applicability of
OHSAS 18001:2007 requirements may be obtained by consulting the organizations



21 Aug. 2017 Original Registered
21 Aug. 2017 Latest Issued
20 Aug. 2020 Valid Until

Aug. 2018 1st Surveillance Audit
Aug. 2019 2nd Surveillance Audit


DIRECTOR
TQV Certification Service Private Limited.

The Certificate of Registration remains the property of
TQV Certification Service Private Limited
and shall be returned immediately upon request. For more information
(For current validity of the certificate, visit our website : www.tqvcertification.com)

CEOC
CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

**SCHWEISSVERFAHREN - PRÜFUNGSBESCHEINIGUNG
WELDING PROCEDURE QUALIFICATION REPORT**


Hersteller-Schweißanweisung: WPAR-08- Prüfstelle: TÜV AUSTRIA
Manufacturer's welding procedure: BW Inspecting authority: SERVICES GMBH
Beleg-Nr.: Pre-WPS-008 Berichts-Nr.: 18-IS-0344R-01-TAT- Institut für
Reference No: Report No: 18-PQR-0426 NOBO 0408 Werkstoffprüfung
Hersteller: Çorlu Ağır Makine İmalat San Cevdet Dal ve Ortakları Kolektif Şirketi Prüfbüro Wien
Manufacturer: Karamelmet Mah. Avrupa Serbest Böl.13.Sk. Cevdet Dal-Dal Teknik Apt. No:33/1 A-1230 Wien
Address: ERGENE / TEKİRDAĞ Deutschlandstraße 10
Vorchrift / Prüfnorm: NORM EN ISO 15614-1:2017 Stufe / Level: 2 Telefon:
Code / Testing standard: +43 1 610 91
Datum der Schweißung: 23.3.2018 Fax: DW 9005

GELTUNGSBEREICH / RANGE OF APPROVAL

Schweißverfahren: 130 MAG welding with flux cored electrode /
Welding process: BW
Nahtart: BW
Joint type:
Werkstoffgruppe: group 1.2 EN ISO 15608
Parent metal group:
Prüfstückdicke (mm): 50 mm (25 mm to 100 mm)
Parent metal thickness (mm):
Rohr Außendurchmesser (mm):
Pipe outside diameter (mm):
a-Maß (mm): 130; 50 mm (max. 200 mm)
Design throat thickness (mm):
Art des Zusatzwerkstoffes / Bezeichnung: TS EN ISO 17632-A : T 42 2 P C 1 H5
Filler metal type / Designation:
Schutzgas / Pulver: ISO 14175 C1
Gas / Flux:
Stromart: DC (+)
Type of welding current:
Schweißposition: PA
Welding position:
Vorwärmung: Mn. 150-180 °C
Preheating:
Wärmenachbehandlung: --
Post weld heat treatment:
Sonstige Angaben: --
Other information:

Hiemit wird bestätigt, dass die Prüfungsschweißungen in Übereinstimmung mit den Anforderungen der
vorbezeichneten Vorschriften bzw. Prüfnormen zufriedenstellend vorbereitet, geschweißt und geprüft wurden.
Certified that test welds were prepared, welded and tested satisfactorily in accordance with the requirements of the code / testing
standard indicated above.

Istanbul
Ort/Location
17.10.2018
Datum der Ausstellung
Date of issue


Name und Unterschrift
M.Koray EFE

CEOC-VP-neu / Rev. 06 Seite 1 von 4 / Page 1 of 4

QUALITY CONTROL PROCEDURES

- Tensile Test
- Bend Test
- Impact Test
- Hardness Test
- Fracture Test
- Macroscopic-Microscopic Test
- Pull-off Test & Cross-Cut Test
- Radiographic Test (RT)
- Ultrasonic Test (UT)
- Magnetic Particle Test (MT)
- Liquid Penetrant Test (PT)
- Positive Material Identification (PMI)
- Hydrostatic Pressure Test, Pneumatic Pressure Test
- Ultrasonic Lamination Test
- Dry Film Thickness, Wet Film Thickness (for Painting)



DIMENSIONAL CONTROL PROCEDURES

DEA GLOBAL COORDINATE MEASURING MACHINES

Axis Travel: 1200 x 3000 x 1000 mm

- Surface Gauge
- Surface Roughness Gauge
- Ultrasonic Thickness Gauge
- Caliper Gauge
- Dial Gauge
- Depth Gauge
- Feeler Gauge
- Miter
- Bore Gauge



DAL WORKSHOP

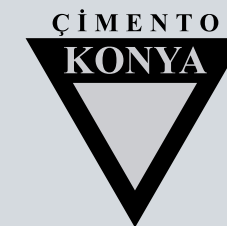
OUR CUSTOMERS



ADOÇİM



HEIDELBERGCEMENT



ZEALPAK



HEADQUARTER

Şirinevler Mah. Adnan Kahveci Bulvarı
No:206 Haydar Akın İş Mrk-1 PK: 34510
Bahçelievler, İstanbul - Turkey

EFZ

Karamehmet Mah. Avrupa Serbest Bölgesi
Adnan Arısoy Bulvarı No:1/A
Ergene, Tekirdağ - Turkey

TÜRKGÜCÜ

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