

SOME PRESTIGIOUS FAN PROJECTS COMPLETED BY EMAK LTD.

TUNNEL VENTILATION SYSTEMS :

All systems are built according to NFPA 130 Standard, 250 °C – 1 h. Certified Heat Resistant material.

Also EMAK have F300 and F400 certificate for all of our fans axial. The System Fans are tested by Fan Performance Test Code ISO 5801 / BS 848 (British Standard).

15 ANKARA METRO SYSTEM-M4 METROLINE (2015)

37 Pieces – 100 m³/s (2240 – 160 kW) – F400 / Tunnel Ventilation Fans (TVF)

35 Pieces – Various Jet Fans – F400

38 Pieces– Fire Dampers and complete MCC Electrical Control Systems

CONTRACTOR : KOLİN / GÜLERMAK

14. ANKARA KEÇİÖREN METRO SYSTEM-STATION FANS (2013)

3 Pieces – 12 m³/s (900 – 11 kW) – F400

2 Pieces – 12,5 m³/s (900 –15 kW) – F400

2 Pieces – 14 m³/s (1000 –15 kW) – F400

1 Pieces – 14 m³/s (1000 – 11 kW) – F400

5 Pieces – 17,4 m³/s (1000–18,5 kW) – F400

2 Pieces – 20 m³/s (1120–22 kW) – F400

3 Pieces – 18 m³/s (1120–18,5 kW) – F400

CONTRACTOR : KOLİN / GÜLERMAK

13. TCDD - SIVAS DELIKTAS TUNNEL (2013)

2 Pieces – 62 m³/s (1800 – 160 kW) – F400

12 İZRAY (İzmir Metro System) (2011) Phase II – Part 1

6 Pieces 22 m³/s – (37 – 45 kW) – F300

4 Pieces 30 m³/s – (90 –110 kW) – F300

6 Pieces 50 m³/s – (110 –160 kW) – F300

2 Pieces 70 m³/s – (132 – 200 kW) – F300

4 Pieces 100 m³/s – (250 kW) – F400

CONTRACTOR : SİGMA / BOREGE

11 GEORGIA–RIKOTİ TUNNEL (2011)

2 Pieces 105 m³/s (360.000 m³/h) – 200 kW – Tunnel Ventilation Fans

2 Pieces 105 m³/s (378.000 m³/h) – 250 kW – F400 (400 °C – 2h) – Smoke Fans and Dampers

CONTRACTOR : ULTRA A.Ş.

- 10 BURSARAY (Bursa City Turkey) LRTS SYSTEM(2011)** – Phase III – Part 2 TVF FANS
2 X 120 m³/s (432.000 m³/h) – 250 kW
Each Smoke Fans, Smoke Dampers, Silencers , Electric Control Panels with Frequency Drivers and Remote Operator Panels
CONTRACTOR : YAPI MERKEZİ A.Ş.
- 9 İstanbul Metro System (İstanbul – TURKEY) (2010)** – F400 (400 °C – 2h) Seyrantepe Fans
2 X (Total Capacity 64.500 m³/h – 1000 Pa)
- 8 İZRAY (İzmir City – Turkey) (2010)** LRTS System Phase III – Part 1 TVF FANS
İZRAY TUNNEL FANS
2 Pieces 100 m³/s – 1250 Pa – 200 kW (250 °C – 1 h.)
3 Pieces 80 m³/s – 950 Pa – 132 kW (250 °C – 1 h.)
2 Pieces 50 m³/s – 1350 Pa – 110 kW (250 °C – 1 h.)
CONTROL : YUKSEL PROJE & LOUIS BERGER Inc. ENGINEERING
CONTRACTOR : BOREGE / GÜLÇUBUK
- 7 BURSARAY (Bursa City Turkey) LRTS SYSTEM (2006)** – Phase III – Part 1 TVF FANS
2 X 120 m³/s (432.000 m³/h) – 355 kW – 250 °C – 1 h.
1 X 70 m³/s (252.000 m³/h) – 132 kW – 250 °C – 1 h.
Each Smoke Fans, Smoke Dampers, Automation system, Silencers,
Electric Control Panels with Frequency Drivers and Remote Operator Panels (Turn key Delivery)
CONTROL : YAPI – ICF – KAISER (Earthtech) ENGINEERING
CONTRACTOR : YAPI MERKEZİ A.Ş.
- 6 İstanbul Metro System (2007 – 2008)** Sishane Station – Peron Fans (Alsim – Alarko)
F300 (300 °C – 1 h.)
- 5 Eskisehir LRTS SYSTEM (2006)** – 6 X POWER SUBSTATION PRESSURIZATION – BOMBARDIER
- 4 İstanbul Metro System (2005)** Taksim – Kabatas Funicular System Project Peron Fans – F300
- 3 BursaRay LRTS SYSTEM(2003)** – Peron Fans – BURSA City – F300
- 2 BURSARAY (Bursa City Turkey) LRTS SYSTEM (2003)** – TVF FANS – Phase 1 & Phase 2.
Total 16 Pieces – 108 m³/s (390.000 m³/h – 250 kW) – 250 °C – 1 h.
Each Smoke Fans, Smoke Dampers, Automation system, Silencers,
Electric Control Panels with FrequenceDrivers, Remote Operator Panels and SCADA Integration.
(Turn key Delivery)
CONTROL : YAPI – ICF – KAISER (Earthtech) ENGINEERING.
CONTRACTOR : EMAK LTD.ŞTİ.



1 İZRAY (İzmir City – Turkey) LRTS System (2001) Phase 1. 250 °C – 1 h.

Smoke fans, Smoke Dampers, Automation system, Including Silencers,

Electric Control Panels with Frequency Driver – Remote Operator Panels and SCADA Integration.

IZRAY OTE FAN SYSTEM (Total Capacity 10 Pieces 50 m³/s – 55 kW) – 250 °C – 1 h.

CONTROL : YUKSEL PROJE & LOUIS BERGER Inc. ENGINEERING

CONTRACTOR : YAPI MERKEZİ A.Ş.