

ABOUT US

Our company was established in 2013 as a subsidiary of Kale Group, Türkiye's industrial giant, to carry out research and development activities on Turbine Engines.

Kale Jet Engines's main field of activity includes the design, development, testing and production of turbine engines, including but not limited to attritable turbojet engines with compact design, very high thrust-to-weight ratios.

We developed Türkiye's first Turbojet Engine KTJ-3200 and started serial production. We continue to develop and produce new turbine engines KTJ Series Engines in different sizes and features with the experience and knowledge we gained from KTJ-3200 with over 250 employees.



Kale Jet Engines has an in-house Altitude Test Facility for verifying key performance characteristics of its own Turbine Engines at altitude and Mach speed conditions up to 10,000 m altitude level and 0.95 Mach speed.

In addition to Türkiye's first and only Altitude Test System, we have Endurance Test Bed, Special Engine Test Systems (including; water ingestion, distortion tests), Combustion Chamber Test Rig, Test Rigs for Control and Accessories, and other test systems.







Our indigenous engines **KTJ-1750, KTJ-3200S, KTJ-3200A** and **KTJ-3700** do power the NATO-Turkish Armed Forces missile systems – **Çakır, SOM, Atmaca** and **Kara Atmaca** respectively.





750



QUALIFIED SLS THRUST

1750 N



SPECIFIC FUEL CONSUMPTION

1.17 kg / h / daN (SLS, lubrication included)



ENGINE WEIGHT 22.5 kg

In Serial Production





KTJ-1750









Electronic Control Unit



Pyrotechnic Igniter

TECHNICAL PARAMETERS	METRIC	IMPERIAL
Qualified SLS Thrust	1750 N	393.4 lbf
Specific fuel consumption (SLS, lubrication included)	1.17 kg/h/daN	1.15 lb/lbf/h

STARTING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.9	Mach

OPERATING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.95	5 Mach

PHYSICAL CHARACTERISTICS	METRIC	IMPERIAL
Diameter	202 mm	7.95 in
Total Length	464 mm	18.27 in
Weight (including controls and accessories)	22.5 kg	49.60 lb
Electrical power output	2.3 kVA	
Fuel Type	Jet A-1, JP-8, JP-10	
Lubrication System	Fuel	



Length 630 mm



KTJ-3200













TECHNICAL PARAMETERS	METRIC	IMPERIAL
Qualified SLS Thrust	3200 N	719.4 lbf
Specific fuel consumption (SLS, lubrication included)	1.18 kg/h/daN	1.16 lb/lbf/h

STARTING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.9) Mach

OPERATING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.95	5 Mach

PHYSICAL CHARACTERISTICS	METRIC	IMPERIAL
Diameter	330 mm	13 in
Total Length	630 mm	24.8 in
Weight (including controls and accessories)	50 kg	110.2 lb
Electrical power output	3 kVA	
Fuel Type	Jet A-1, JP-8, JP-10	
Lubrication System	Fuel	

In Serial Production



8 Kale Jet Engines





KTJ-3700













TECHNICAL PARAMETERS	METRIC	IMPERIAL
Qualified SLS Thrust	3700 N	831.8 lbf
Specific fuel consumption (SLS, lubrication included)	1.12 kg/h/daN	1.10 lb/lbf/h

STARTING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.9) Mach

OPERATING RANGE	METRIC	IMPERIAL
Altitude ATF qualified	0 m to 6000 m	0 ft to 19680 ft
Speed ATF qualified	0 to 0.95 Mach	

PHYSICAL CHARACTERISTICS	METRIC	IMPERIAL
Diameter	330 mm	13 in
Total Length	630 mm	24.8 in
Weight (including controls and accessories)	50 kg	110.2 lb
Electrical power output	3 kVA	
Fuel Type	Jet A-1, JP-8, JP-10	
Lubrication System	Fuel	

With the legacy of **Dr.(h.c) ibrahim Bodur**, from the roots to the skies!

Kale Group is one of the larger industrial conglomerates in Turkey. Established in 1957 by one of the pioneering industrialist of Turkey, **Dr. Ibrahim Bodur**, Kale has its main business in the field of building materials (one of the largest ceramic tile factories under one roof, in the world) and mining, logistics, along with its technology driven businesses.

Having a vision for growth in technology oriented sectors, Kale Group management established ventures in defense and aerospace sector: creating successful companies including Kale Jet Engines in indigenous turbine turbine engines design, development and production.



OUR VALUES



We Build Trust



We Act With Determination



We Take Responsibility



We Cooperate



We Lead The Way



We Pave The Way For Entrepreneurship



***Kale Jet Engines**

ENGINEERING OFFICE Teknopark İstanbul Sanayi Mahallesi, Teknopark Bulvarı, 1/10 C, No:139 Pendik/İSTANBUL +90 (216) 504 00 01

DEVELOPMENT, TEST AND PRODUCTION CENTER İstanbul Deri Organize Sanayi Bölgesi, Kumpas Caddesi No:32 N-5 Tuzla/İSTANBUL +90 (216) 394 80 80

LIAISON OFFICE Söğütözü Mah. Söğütözü Cd. No:2, Koç Kuleleri A Blok Kat: 19 No: 94 Çankaya/Ankara +90 (312) 286 51 96







