roketsan

FUZE SYSTEMS

FUZE SYSTEMS

Design, qualification, production and delivery activities of missile fuzes, artillery rocket fuzes and ammunition fuzes for different sizes are carried out at Roketsan Fuze Technology Center.

Proximity fuze production for Long Range 122 mm Rockets manufactured by Roketsan; Electromechanical fuze production for CİRİT, L-UMTAS, UMTAS and OMTAS Missiles; Electromechanical fuze production for MAM-L and MAM-C Smart Munitions; Electromechanical fuze production for DSH Rocket, TRG-230 Missile Proximity fuze productions, electromechanical fuze verification and qualification activities for KARAOK Missile, development activities for electromechanical / electronic fuzes for Kamikaze UAVs, development activities of Laser Guided Mini Missile Fuze and test support for the development and verification process of TST-101 Fuze, developed by TÜBİTAK SAGE and planned to be used in Aircraft Bombs and SOM Missiles, and preparatory acitvities for the serial production of TST-101 Fuze at ROKETSAN are carried out.

Fuzes, designed and developed with a system engineering approach in accordance with MIL-STD-1316 and STANAG-4187 within Fuze Technology Center, are tested in accordance with MIL-STD-331 and MIL-STD-810.

TEST INSFRASTUCTURE

Climatic Test Chambers	Explosion Test Equipment
Anechoic Chamber	Centrifugal Test Equipment
Jolt/Jumble Test Equipment	Vibration Test Equipment
1,5 m & 12 m Drop Test Equipment	X-Ray Inspection Equipment
ESD Test Equipment	Endoscopic Inpection Equipment
HALT/ HASS Test Equipment	

ROCKET FUZES

107 mm ROCKET IMPACT FUZE TECHNICAL SPECIFICATIONS	
Type	Mechanical
Diameter	40 mm
Length	123 mm
Intrusion Depth	46 mm
Weight	637 g
Function	Impact [SQ / Short Delay / Long Delay]
Arming Condition	Spin
Arming	14,000 rpm
Reference Standard	MIL-STD-331
Environmental Tests	MIL-STD-331
Operation Temperature	-40°C / +60°C
Status	Production

122 MM ROCKET IMPACT FUZE TECHNICAL SPECIFICATIONS	
Type	Mechanical
Diameter	64 mm
Length	196 mm
Intrusion Depth	55 mm
Weight	740 g
Function	Impact [SQ / Short Delay / Long Delay]
Arming Condition	Acceleration
Arming	25g
Reference Standard	MIL-STD-331
Environmental Tests	MIL-STD-331
Operation Temperature	-40°C / +60°C
Status	Production

122 mm ROCKET PROXIMITY FUZE TECHNICAL SPECIFICATIONS

Type	Electromechanical
Diameter	64 mm
Length	233 mm
Intrusion Depth	54 mm
Weight	740 g
Function	Proximty [1-15 m], Impact, Time [0-200 s]
Arming Condition	Acceleration
Arming	25g
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331
Operation Temperature	-40°C / +60°C
Status	Production

300 mm GUIDED ROCKET PROXIMITY FUZE TECHNICAL SPECIFICATION

Type	Electromechanical
Diameter	80 mm
Length	224 mm
Intrusion Depth	57 mm
Weight	2,400 g
Function	Proximty [1-15 m], Impact, Time [0-200 s]
Arming Condition	Acceleration
Arming	25g
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331
Operation Temperature	-40°C / +60°C
Status	Production

ANTI-SUBMARINE WARFARE ROCKET FUZE TECHNICAL SPECIFICATIONS	
Type	Electromechanical
Diameter	60 mm
Length	200 mm
Intrusion Depth	200 mm
Weight	1,500 g
Function	Impact, Time [1-60 s]
Arming Condition	Acceleration and Spin
Arming	25g / 500 rpm
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331 MIL-STD-810
Operation Temperature	-10°C / +50°C
Status	Production

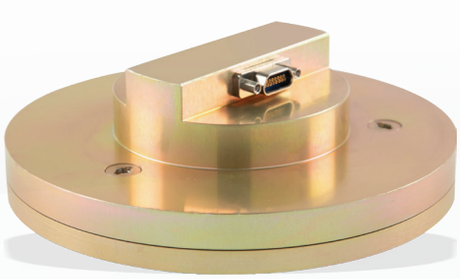
MISSILE FUZES

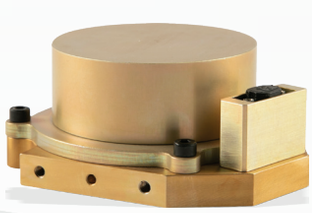
CİRİT [2,75"] MISSILE FUZE TECHNICAL SPECIFICATIONS

Type	Electromechanical
Diameter	40 mm
Length	55 mm
Weight	125 g
Function	Multi-purpose, Blast&Fragmentation, Thermobaric Warhead Fuze
Arming Condition	Acceleration
Arming	30g
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-35°C / +60°C
Status	Production

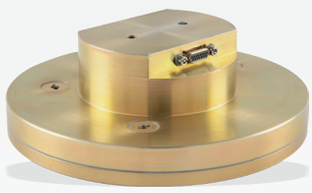
OMTAS / UMTAS / L-UMTAS ANTI-TANK MISSILE FUZE TECHNICAL SPECIFICATIONS

Type	Electromechanical
Diameter	80 mm / 135 mm
Length	40 mm / 50 mm
Weight	315 g / 667 g
Function	Front and Main Fuze Set for Tandem Armour Piercing Warhead Pre-Fragmented Warhead Fuze
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-35°C / +60°C
Status	Production





SMART MICRO MUNITION [MAM-L] FUZE TECHNICAL SPECIFICATIONS	
Type	Electromechanical
Diameter	135 mm
Length	50 mm
Weight	660 g
Function	Pre-Fragmented, Armour Piercing and Thermobaric Warhead Fuze
Safe and Arm	Two Independent Safety Features
Referans Standart	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-35°C / +60°C
Status	Production



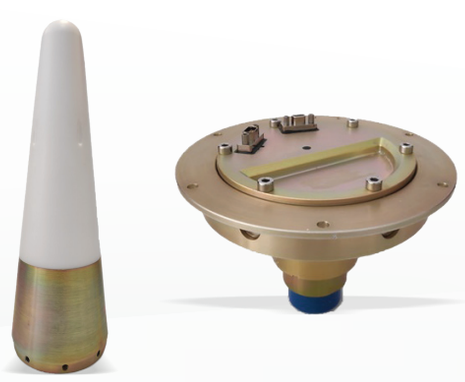
SMART MICRO MUNITION [MAM-C] FUZE TECHNICAL SPECIFICATIONS	
Type	Electromechanical
Diameter	62 mm
Length	100 mm
Weight	385 g
Function	Multi-purpose, Pre-fragmented Warhead Fuze
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-35°C / +60°C
Status	Production

TRG-300 TIGER MISSILE FUZE

Type	Electromechanical
Diameter	85 mm / 195 mm
Length	205 mm / 75 mm
Weight	2,000 g / 1,600 g
Function	Impact / Proximity [10-15 m]
Arming Condition	Acceleration
Arming	30g
Safe and Arm	Two Independent Safety Features
Target Detection	External Proximity Unit
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-30°C / +71°C
Status	Production

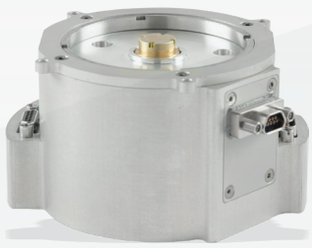
TRG-230 MISSILE PROXIMITY FUZE TECHNICAL SPECIFICATION

Type	Electromechanical
Diameter	80 mm / 115 mm
Length	330 mm / 100 mm
Weight	2,200 g / 700 g
Function	Impact / Proximity [1-15 m]
Safe and Arm	Two Independent Safety Features
Target Detection	External Proximity Unit
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-30°C / +60°C
Status	Production



KARAOK ANTI-TANK MISSILE FUZE TECHNICAL SPECIFICATIONS

Type	Electromechanical
Diameter	60 mm / 72 mm
Length	40 mm / 60 mm
Weight	200 g / 400 g
Function	Front and Main Fuze Set for Tandem Armor Piercing Warhead
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-32°C / +55°C
Status	Verification - Validation



LASER GUIDED MINIATURE MISSILE TECHNICAL SPECIFICATION

Type	Electromechanical
Diameter	40 mm
Length	50 mm
Weight	115 g
Function	Blast&Fragmentation Warhead Fuze
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-810 MIL-STD-331
Operation Temperature	-30°C / +50°C
Status	Development

FUZE SETTERS

20 MM AMMUNITION FUZE TECHNICAL SPECIFICATION	
Diameter	17 mm
Length	31,6 mm
Intrusion Depth	9,6 mm
Weight	22 g
Function	Çarpma
Arming Condition	Acceleration and Spin
Arming	120,000g, 830 rps
Operating Temperature	-40°C / +60°C
Status	Produciton

RST-100 ARTILLERY AMMUNITION FUZE TECHNICAL SPECIFICATION	
Type	Mechanical
Dimensions	MIL-STD-333 compliant
Weight	700 g [max.]
Function	Impact [SQ / Short Delay / Long Delay]
Safe and Arm	Two Independent Safety Features Safe for Flip Ramming
Arming Acceleration	> 1,000g
Arming Spin	> 1,500 rpm
Max. Acceleration	24,000g
Max. Spin	24,000 rpm
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331
Operation Temperature	-40°C / +60°C
Status	Development

RST-500 MULTI-OPTION FUZE TECHNICAL SPECIFICATION	
Type	Multi-Option
Dimensions	MIL-STD-333 Compliant
Weight	700 g [max.]
Function	Impact, Proximity and Time
Safe and Arm	Two Independent Safety Features
Arming Acceleration	>1,000g
Arming Spin	>1,500 rpm
Max. Acceleration	24,000g
Max. Spin	24,000 rpm
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331
Setting	Inductive Fuze Setter AOP-22 Compliant
Operation Temperature	-40°C / +60°C
Status	Development

KAMIKAZE UAV AMMUNITION [RIHAM-C] FUZE TECHNICAL SPECIFICATION	
Type	Electromechanical
Diameter	62 mm
Length	100 mm
Weight	400 g
Safe and Arm	Two Independent Safety Features
Reference Standard	MIL-STD-1316
Environmental Tests	MIL-STD-331 MIL-STD-810
Electrical Interface	RS-485
Operation Temperature	-35°C / +60°C
Status	Development

FUZE SYSTEMS

FUZE ADJUSTING UNITS

INDUCTIVE FUZE SETTER TECHNICAL SPECIFICATIONS

Function	Inductive Fuze Setter
Weight	< 1,000 g
Dimensions	100 x 255 x 85 mm
Fuze Systems	Compatible with Fuzes Defined in AOP-22
Interface	RS-232 [9600 Band; 8 Bit, 1 Stop Bit]
Operation Temperature	-35° / +60°C

FUZE SETTER TECHNICAL SPECIFICATIONS

Function	Proximity Fuze Setter
Weight	< 1,000 g
Dimensions	77 x 181 x 50 mm
Fuze Systems	122 & 300 mm Rocket Proximity Fuzes
Interface	Mini USB
Operation Temperature	-30°/+60°C

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