



# INDEKS



**SAVUNMA SANAYİİ / DEFENCE INDUSTRY**





## PATLAYICI DEDEKTÖRLERİ

### Model T Patlayıcı Dedektörü



Teknik Özellikler	
20 ± 2 ° C'lik bir sıcaklıkta, TNT buharı saptama sınırı	1 x 10 <sup>-13</sup>
En az 20 ± 2 ° C'lik bir sıcaklıkta patlayıcı madde alt sınır tespiti g- TNT parçacıkları - RDX parçacıkları - PETN parçacıkları	1x10 <sup>-1</sup> 1 x 10 <sup>-9</sup> 5x10 <sup>-10</sup>
Patlayıcı madde tespiti durumunda tepki süresi en fazla	15
Start durumunda aktif olma süresi, en fazla	5
Patlayıcı madde tespiti durumunda tepki metodu	Visual and audible
Çalışma Gücü 220V, 50Hz Power, W	1,8 Kw
Çalışma koşulları: Ortam sıcaklığı, °C nem (+ 25 ° C, yağışsız) % ' kadar	0 ... +50 95
Boyutlar, mm	580x360x210
Ağırlık, kg: Ambalajı olmadan yalnızca dedektör	10

### Model M1 Patlayıcı Dedektörü



Teknik Özellikler	
En az 20 ± 2 ° C'lik bir sıcaklıkta, g / cm <sup>3</sup> , minimum patlayıcı buharı tespiti	1 x 10 <sup>-13</sup>
En az 20 ± 2 ° C'lik bir sıcaklıkta patlayıcı madde alt sınır tespiti g- TNT parçacıkları - RDX parçacıkları - PETN parçacıkları	1x10 <sup>-1</sup> 1 x 10 <sup>-9</sup> 5x10 <sup>-10</sup>
Patlayıcı madde tespiti durumunda tepki süresi en fazla	10
Start durumunda aktif olma süresi, en fazla	10
Patlayıcı madde tespiti durumunda tepki metodu	Görsel ve sesli (ekran)
Çalışma Gücü	190B - 242B, (50±) Hz veya Akü şarjı 7,2V
Çalışma koşulları: Ortam sıcaklığı, °C nem (+ 25 ° C, yağışsız) % ' kadar	+5 ... +50 95
Gabari, mm	300x180x90
Ağırlık , şarj adaptörü ile birlikte, kg	1.8

### Model M Patlayıcı Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Güç 1 10 - 240B, 50Hz veya 12V Akü bataryası,Vt	20
Kontrol odası ölçüleri, mm	2150 x 800 x 540
Kontrol odası ağırlığı en fazla,kg	50
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ile montaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	- 30 ... + 50



## PATLAYICI DEDEKTÖRLERİ

### Search-XT (spray / drop)



Teknik Özellikler			
Patlayıcı Tanımı	Reaktif	Algılama aralığı VV, g	Boyama noktaları
TNT	A	$10^{-3}$	Kırmızı -Mor
Tetritil	A	$10^{-5}$	Turuncu
RDX	A+B+C	$10^{-5}$	Pembe
HMX	A+B+C	$10^{-5}$	Pembe
Borulu Tip Patlayıcı	A+B+C	$10^{-3}$	Pembe

### 3MM2 Metal Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Güç 1 10 - 240B, 50Hz veya 12V Akü bataryası,Vt	20
Kontrol odası ölçüleri, mm	2150 x 800 x 540
Kontrol odası ağırlığı en fazla,kg	50
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ilemontaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	- 30 ... + 50

### 3M1 Metal Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Güç 220V, 50Hz, VT	20
Kontrol odası ölçüleri, mm	2100x800x 540
Kontrol odası ağırlığı en fazla,kg	45
Harici elektronik ünite	Evet
Elektronik ünite ölçüleri, mm	200 x 60 x 280
Elektronik ünite ağırlığı en fazla, kg	2
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ilemontaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	+ 5 ... + 40



## PATLAYICI DEDEKTÖRLERİ

### V-P Açık Alan Metal Dedektörü



Teknik Özellikler	
Teknik Özellikler	Arama-VN
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Güç 220V, 50Hz, VT	20
Kontrol odası ölçüleri, mm	2100 x 800 x 500
Kontrol odası ağırlığı en fazla,kg	50
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ilemontaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	- 30 ... + 50

### ZMR Metal Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Gama ışıklarının algılama enerjisi, keV ... meV	60 ... 3.0
Alarm eşiği, mkrP/saat	50
Güç 220V, 50Hz, VT	30
Kontrol odası ölçüleri, mm	2100x 800 x 520
Kontrol odası ağırlığı en fazla,kg	45
Harici elektronik ünite	Evet
Harici elektronik ünite ölçüleri, mm	290 x 85 x 250
Harici elektronik ünite ağırlığı en fazla , kg	4
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ilemontaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	+ 5 ... + 40

### 3MM Metal Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Güç kaynağı 1 10 - 240V, 50Hz veya dahili 12V şarj edilebilir pil gücü,W	20
Kontrol odası ölçüleri, mm	2100x800x 540
Kontrol odası ağırlığı en fazla,kg	50
Start durumunda çalışmaya başlama hızı , c	10
Ürünün tek kişi ile montaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	+ 5 ... + 50



## PATLAYICI DEDEKTÖRLERİ

### 3P Metal Dedektörü



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Algılama Alanı, m	0,1 ... 1,5
Kontrollü geçiş genişliği, m	0,7 ... 0,75
Güç kaynağı 220V, 50Hz Güç W	20
Kontrol odası ölçüleri, mm	600 x 1400x 40
Panel Ağırlığı kg	15
Harici elektronik ünite	Var
Elektronik ünite, mm Boyutları	200 x 60 x 280
Elektronik birim hacim ağırlığı, kg	2
Açıldıktan sonra ısınma süresi,dk	15
Çalışma ısısı, °C	+ 5 ... + 35

### 3C Katlanabilir Dedektör



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,98
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,02
Algılama Alanı, m	0,1 ... 1,5
Kontrollü geçiş genişliği, m	0,7 ... 0,75
Güç kaynağı 220V, 50Hz Güç W	20
Kontrol odası ölçüleri, mm	600 x 1400x 40
Panel Ağırlığı kg	15
Harici elektronik ünite	Var
Elektronik ünite, mm Boyutları	200 x 60 x 280
Elektronik birim hacim ağırlığı, kg	2
Açıldıktan sonra ısınma süresi,dk	15
Çalışma ısısı, °C	+ 5 ... + 35

### SC Katlanabilir Dedektör



Teknik Özellikler	
PS-PSM tipi silah tanımlama olasılığı	0,95
Kişisel kullanıma ait metal nesnelere gelen yanlış alarm olasılığı ( anahtar, saat, elbise...vb )	0,05
Güç 220V, 50Hz veya 12V Akü bataryası	Evet
Kontrol kabini ölçüleri, mm	2050 x 700 x 400
Kontrol kabini ağırlığı,kg	10
Start durumunda çalışmaya başlama hızı , saniye	10
Ürünün tek kişi ile montaj ve kurulum zamanı, dk	10
Çalışma ısısı, °C	- 10 ... + 40

## PATLAYICI DEDEKTÖRLERİ

### 4M EI dedektörü



Teknik Özellikler	
PM tip silah algılama aralığı en az,mm	100
Tepki metodu	Görsel ve sesli
Çalışma ısısı, °C	- 15...+ 40
Güç	9V Batari veya 7D-0.125
Aralıksız çalışma süresi en az, saat	30
Çalışma süresi en az, saat	30
Ölçüler, mm	300 x 100x40
Batarya gücü	200

### MIG 2 Gama Radyasyon Göstergesi



Teknik Özellikler	
X-ışını ve gama ışını ve quanta algılama aralığı, keV	20 ... 3000
(Gama ışını ölçme aralığı , mk3r/saat(mkr/saat )	0 ... 99.99 (0 ... 9999)
Hata aralığı 0,2 - 99,99 m/saat en fazla, % arka lan değişme aralığı	± 30 ± 20
0,2 m/saat en fazla, %	
Alarm değeri, mkR/saat	45
Ölçme süresi, c	2 ± 0,2
Start durumunda çalışmaya başlama hızı , saniye	10
Çalışma süresi en az, saat	8
Çalışma ısısı aralığı, °C	0 ... 45
Ölçüler, mm	200 x 100 x 40
Ağırlık, kg	0,6

### M1 Gama Radyasyon Göstergesi



Teknik Özellikler	
X-ışını ve gama ışını ve quanta algılama aralığı, keV	20 ... 3000, 5000
Hata aralığı 0,2 - 99,99 mk3r/saat en fazla, % arka lan değişme aralığı	± 30
Start durumunda çalışmaya başlama hızı , saniye	20
Çalışma süresi en az, saat	30
Çalışma ısısı aralığı, °C	0 ... 45
Ölçüler, mm	214x65x45
Ağırlık, kg	0,3

## DESIGNED FOR SPECIAL FORCES

Indeks has developed two types of armored vests:

- Designed for special forces
- designed for General Infantry
- designed for Police forces
- Bulletproof vest for civilians
- Both of this models can meet NIJ 0101.04 standard III, IIIA and IV protection levels



### NIJ III (7.62x25 mm TT)

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ 0101.04 standard with III Level of protection.

Empty weight without armor plate - 3,5 kg  
Protected area - 42-44 dm



### NIJ III+7.62x54 mm LPS

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ T0101.04 standard with III Level of protection.

Empty weight without armor plate - 3,5 kg  
Weight with III class armor plate - 5,7 kg  
Weight with III class armor plate and neck protection - 9,16 kg  
Protected area - 42-44 dm



### NIJ IV (7.62x54 mm B-32)

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ T0101.04 standard with III Level of protection.

Empty weight without armor plate - 3,5 kg  
Weight with III class armor plate - 6,4 kg  
Weight with III class armor plate and neck protection - 9,5 kg  
Protected area - 42-44 dm





**DESIGNED FOR GENERAL INFANTRY**



**NIJ III (7.62x25 mm TT)**

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ 0101.04 standard with III Level of protection.

Empty weight without armor plate - 4 kg  
Protected area - 38-40 dm



**NIJ IV (7.62x54 mm B-32)**

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ T0101.04 standard with III Level of protection.

Empty weight without armor plate - 4 kg  
Weight with IV class armor plate - 6,54 kg  
Protected area - 38-40 dm  
Protection Level - NIJ IV (7,62X54 mm AP rounds)



**NIJ III+7.62x54 mm LPS**

Ballistic Body Armor Tactical model with MOLLE webbing produced according as NIJ 0101.04 standard with III+7.62x54(PK) Level of protection.

Empty weight without armor plate - 4 kg  
Weight with III class armor plate - 6,2 kg  
Protected area - 38-40 dm  
Protection Level - NIJ III (7,62X54 mm rounds)



DESIGNED FOR POLICE FORCES



Bullet Protection	NIJ Level IIIA (7.62X25 mm TT )
Fragmentation Protection	V50-750 m/s (1,1 grams fragment)
Gross Weight (Medium)	2,5 kg
Surface Area Protected	29,3 dm <sup>2</sup> (M size)
Sizes	S,M,L,XL,XXL
Colors	Beige, Dark Blue, Olive Green or Custom

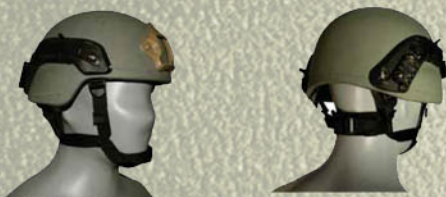
BULLETPROOF VEST FOR CIVILIANS



Bullet Protection	NIJ Level IIIA (7.62X25 mm TT )
Fragmentation Protection	V50-750 m/s (1,1 grams fragment)
Gross Weight (Medium)	2,5 kg
Surface Area Protected	29,3 dm <sup>2</sup> (M size)
Sizes	S,M,L,XL,XXL
Colors	Beige, Dark Blue, Olive Green or Custom

ARMOR HELMETS

DH MK-II DESIGNED FOR SPECIAL FORCES



DH MK-III DESIGNED FOR SPECIAL FORCES

DH MK-I DESIGNED FOR GENERAL INFANTRY





## KARA KUVVETLERİ LAND FORCES

### Kara Kuvvetleri Ürün Ve Hizmetleri

- Tank Ve Zırhlı Personel Taşıyıcılar
- Askeri Tip Jeneratörler
- Mayın Dedektörleri
- İzleme & Gizleme Sistemleri
- Simulatör Sistemleri
- Fiziki Güvenlik Sistemleri

### Products And Services For Land Forces

- Tanks And Armoured Personnel Carriers
- Military Type Generators
- Pursuit & Hiding Systems
- Personnel Carriers
- Physical Security Systems

### ASKERİ TİP JENERATÖRLER MILITARY TYPE GENERATORS



İndeks A.Ş. fabrikalarında üretilen römorklu / römorksuz askeri tip jeneratör gruplarının tüm proje, imalat ve testleri İndeks A.Ş. mühendisleri ve teknik ekibi tarafından gerçekleştirilmektedir.

*All projects, manufacturing and testing stages of the products which are trailer or without-trailer type military generators are made by Indeks engineers and technical staffs in Indeks A.S. factories.*



2-2500 Kva Test Laboratuvarı

2-2500 Kva Test Laboratory



2 / 4 Dingil Römork Üretimleri

2 / 4 Axes Trailer Productions



76 Db. e Kadar Jeneratör Kabinleri

Sound Proof Canopies Up To 76 Db.



Alçak & Orta Gerilim Sistemleri

Low & Medium Voltage Systems

## MAYIN DEDEKTÖRLERİ

## MINE DEDECTORS

### F3 El Tipi Mayın Dedektörü

### F3 Hand Type Mine Detector

Operasyon Uzunluğu	: 760mm / 30ins - 1500mm / 59.4ins
Operasyon Ağırlığı	: 3.2kg / 7lbs
Operasyon Ağırlığı	: 2.3kg / 5lbs
Bataryayla Batarya Kutusu Ağırlığı	: 0.9kg / 2lbs

F3 L Mayın dedektörü, elektroniği patentli Bi-polar teknolojisini bünyesine katmaktadır. Bu teknoloji, Minelab'ın ün yapmış ve oldukça başarılı Multi Period Sensing (MPS) teknolojisini geliştirmektedir. MPS ile dedektörün hassasiyeti, toprağın mineral içeriğinden etkilenmeden, istikrarını korumaktadır.

Operating Length	: 760mm / 30ins - 1500mm / 59.4ins
Operating Weight	: 3.2kg / 7lbs
Operating Weight	: 2.3kg / 5lbs
Battery Pack with Batteries	: 0.9kg / 2lbs

The F3 incorporates all the features of Minelab's unique, proven and highly renowned Multi Period Sensing technology into Minelab's new BIPOLAR technology.

Capable of detecting all metal and minimum metal mines at full sensitivity regardless of the mineralised content of soil.



### STMR ARRAY Askeri Araç Tipi Mayın Dedektörü

### STMR ARRAY Military Vehicle Type Mine Detector

Askeri araca monte çoklu algılama ve tek aktarım mayın tarama sistemi ile güvenli ve efektif şekilde mayın tarama.

- Aracın titreşimi veya zeminin yağmur veya mineral içeriği duyarlılığı etkilemez.
- Windows yazılımı hedef veriyi operatöre göndermesi için tasarlanmıştır.
- Manyetik mayınların riskini en aza indirir.
- Algılayıcı başın genişliğinin sayesinde tutarlı hassasiyet kabiliyeti
- Müşteri isteklerine göre ayarlanabilme
- Geliştirilen hedef çözünürlüğü
- Düzenli aktarma alanı

The Single Transmit Multiple Receive Array is a vehicle mounted system that provides a reliable, effective and efficient means of detecting mines.

- Sensitivity unaffected by vehicle vibration, rain or mineralised content of ground reduces susceptibility to external electromagnetic interference.
- Windows based software for display of target data to operator modular design permits fast and uncomplicated repair
- Minimises risk of initiating magnetic influence mines
- Configurable to suit customer requirements
- Consistent sensitivity across width of sensor head
- Uniform transmission field
- Improved target resolution



## **TURAN ZR-07 4 x 4**

### **Technical Specifications**

**Personal Capacity** : 10 Person

**Max. Range** : 900 km

**Engine** : Mercedes-Benz OM 926 LA (306 hp,Euro 3)

**Automatic Gearbox**

**Transfercase** : Mercedes-Benz VG 1600

**Tires** : Michelin 365/85 R20 Spare Wheel

**Driving axles Mercedes-Benz:** ABS

**Fuel Tank** : 15 l

**Empty Vehicle Weight** : 5.600 kg

**Permissible Total Chassis Weight** : 15.000 kg

# IND TURAN 6X6 ZRH 56

## IND TURAN 6X6 ZRH 56 Vehicle Specifications

Chassis:	43118 Special Chassis on frame
Engine:	Cummins 6.7L, 6-Cylinder, Turbo Diesel, 300 Hp @ 2500 rpm, 970 Nm @1700 rpm
Transmission:	ZF 9S1310 manual
Drive:	6x6 full time
Transfer Case:	65111, 2-speed with low gear, PTO and lockable differential
Axles:	Rigid Axles
Suspension:	Leaf springs with shock absorbers and front sway bar
Steering System:	Hydraulically assisted, LHD
Brakes:	Pneumatic type drum brakes with ABS, hill holder
Tire Size:	N/A
Fuel Tank:	Dual 210 +350 L, F-54 or F-34
Electric System:	24 V, 2 x 12 V / 190 Ah, alternator 38 V / 100 Amps
HVAC System:	N/A
Outer Turning Radius:	12.3 m
Wheels:	395/85 R20 Michelin XZL
Wheel Base:	3690 mm + 1320 mm
Ground Clearance:	400 mm (under differential)
Fording:	1.7 m
Gross Weight:	21600 kg
Front Axle Max. Load:	5800 kg
Rear Bogie Max. Load:	15800 kg
Gross Trailer Weight:	12000 kg
Dimensions (L/W/H):	8230 mm / 2550 mm / 3510 mm



## IND TURAN 6X6 ZRH 56

Vehicle Armoring Specifications	
<b>1</b>	<b>Vehicle Body modifications</b>
1.1	Custom made cabin, protection level STANAG 4569 Level 2
1.2	Full protection of engine bay, including radiator grill STANAG 4569 Level 2
1.4	Side walls, roof, doors, roof hatches STANAG 4569 Level 2
1.5	Cabin floor protection STANAG 4569 Level 2a
1.6	Sun visor with integrated wiper blades mechanism
1.7	2 Side doors (for driver and commander)
1.8	CNC machined heavy duty military door hinges
1.9	Military grade door locks with heavy duty handles
1.10	Internal lockable spring loaded dead bolts for all doors for extra security
1.11	All storage hatches to be lockable
1.12	Split windshield STANAG 4569 Level 2
1.13	Side viewing glass STANAG 4569 Level 2
1.14	Gun-ports STANAG 4569 Level 2
1.15	Cargo net at each door
1.16	Anti-slip flooring with rubber mat for interior
1.17	Military blast absorption seats with 4-point seat belts for driver, commander and for the crew
1.18	2 Antenna brackets on the rear roof side
1.19	Military type side mirrors with brackets
1.20	14000 kg electric winch, towing eyes with shackles in the front, OEM towing hook (STANAG 2604) in the rear
1.21	Lifting eyes for shackles on the roof for transportation
1.22	All metal parts specially coated to prevent corrosion. Exterior Camo paint color military green (RAL 6031-F9).
1.23	Transfer case under belly protection
1.24	Radial Tires 395/85 R20 Michelin XZL (Pirelli Pista), steel wheel rims, RunFlat inserts, CTIS



## IND TURAN 6X6 ZRH 56

	with wheel valves (for spare wheel also)	
1.25	Cabin A/C system: evaporator with heater, air outlets for windshield and side glass defrosting, air outlets in front panel and below the dashboard for legs	
1.26	2 additional exhaust fans at the rear side of vehicle with separate switch on dashboard	
1.27	Overpressure air filtration system with recirculation unit behind front seats	
1.28	Headlights, taillights, turn signals, number plate light LED type	
1.29	4 LED search lights with dashboard controls	
1.30	LED interior lights: 1 round red/white light and 1 white map reading light in the cabin, 6 rectangular white lights with protection in crew compartment	
1.31	Black-Out mode for all lights	
<b>2</b>	<b>Optional Equipment</b>	
2.1	NATO type military grade gauge cluster	
2.2	EMC protected engine harness	
2.3	2 CCD day/night camera (front and rear view) + 7" monitor in dashboard	
2.4	Thermal imaging night driving camera connected to 7" monitor in dashboard	
2.5	5 VDC ports USB type in dashboard	
2.6	NATO standard connectors: 3 for jump-start (front, rear and in battery box), 2 for trailer connection (front and rear)	
2.7	NATO Standard cables (jump-start with adaptor for different sockets, trailer)	
2.8	Spare wheel	
2.9	Towing bar (STANAG 2604)	
2.10	Basic maintenance tool kit with hydraulic lifting jack and fire extinguisher	





## IND TURAN 6X6 ZRH 56

<b>4</b>	<b>Vehicle Performance</b>		
4.1	Engine power	300 Hp @ 2500 rpm	
4.2	Engine Torque	970 Nm @ 1700 rpm	
4.3	Vehicle wheel base	3690 mm / 1320 mm	
4.4	Ground clearance	400 mm (under differential)	
4.5	Approach angle	42°	
4.6	Departure angle	44°	
4.7	Vertical obstacle	0.7 m	
4.8	Trench crossing	0.9 m	
4.9	Vehicle curb weight	16000 kg	
4.10	Vehicle gross weight	21600 kg	
4.11	Maximal speed	90 km/h	
4.12	Drive range	1000 km	
4.13	Gradient	60%	
4.14	Side slope	30%	
4.15	Fording depth	1,7 m	
4.16	Outer turning radius	12.3 m	
4.17	Operating temperature	-40°C - +55°C	
4.18	Maximum altitude	3200 m (operating)	
<b>B</b>	<b>Additional Options</b>		
1	Training		1
<b>C</b>	<b>Shipping: STARK Motors Facility, Doha, Qatar</b>		
	Delivery Point: TBD		
<b>D</b>	<b>Administration Fees</b>		
<b>E</b>	<b>Special Remarks</b>		
	End-User Country: TBD		



## IND TURAN 6X6 ZRH 56

STANAG 4569 Level	Kinetic Energy (KE) Threat	Bullet	Artillery Threat
1	Rifle	<b>7.62 x 51 NATO Ball (Ball M80)</b> Distance 30 m Velocity 833 m/s Angle azimuth 360° Elevation 0 - 30°	<b>155 mm High Explosive</b> Distance 100 m Angle azimuth 360° Elevation: 0 - 18°
		<b>5.56 x 45 NATO SS109 &amp; M193</b> Distance 30 m Velocity 900 m/s (SS109) - 937 m/s (M193) Angle azimuth 360° Elevation 0 - 30°	<b>20 mm FSP</b> Velocity* 520 m/s Angle azimuth 0 - 360° Elevation 0 - 18° Simulated range or burst 150 m
2	Infantry Rifle	<b>7.62 x 39 API BZ</b> Distance 30 m Velocity 695 m/s Angle azimuth 360° Elevation 0 - 30°	<b>155 mm High Explosive</b> Distance 80 m Angle azimuth 360° Elevation: 0 - 22° <b>20 mm FSP</b> Velocity* 630 m/s Angle azimuth 0 - 360° Elevation 0 - 22° Simulated range or burst 120 m
3	Sniper Rifle	<b>7.62 x 51 AP (WC core)</b> Distance 30 m Velocity 930 m/s Angle azimuth 360° Elevation 0 - 30°	<b>155 mm High Explosive</b> Distance 60 m Angle azimuth 360° Elevation: 0 - 30°
		<b>7.62 x 54R B32 API (Dragunov)</b> Distance 30 m Velocity 854 m/s Angle azimuth 360° Elevation 0 - 30°	<b>20 mm FSP</b> Velocity* 770 m/s Angle azimuth 0 - 360° Elevation 0 - 30° Simulated range or burst 90 m
3+	Medium Machine Gun	<b>12.7 x 99 M2 AP</b> Speed 914 m/s Distance 30 m	
4	Heavy Machine Gun	<b>14.5x114AP / B32</b> Distance 200 m Velocity 911 m/s Angle azimuth 360° Elevation 0°	<b>155 mm High Explosive</b> Distance 25 m Angle azimuth 360° Elevation: 0 - 90° <b>20 mm FSP</b> Velocity* 960 m/s Angle azimuth 0 - 360° Elevation 0 - 90° Simulated range or burst 25 m
5	Automatic Cannon	<b>25mm APDS-TM-791 or TLB 073</b> Distance 500 m Velocity 1258 m/s Angle azimuth Frontal arc to centerline +/- 30° Elevation 0°	<b>155 mm High Explosive</b> Distance 25 m Angle azimuth 360° Elevation: 0 - 90° <b>20 mm FSP</b> Velocity* 960 m/s Angle azimuth 0 - 360°



## IND TURAN 6X6 ZRH 56

			Elevation 0 - 90° Simulated range or burst 10 m
6	Automatic Cannon	<b>30mm APFSDS and AP</b> Distance 500 m Velocity 1258 m/s Angle azimuth Frontal arc to centerline +/- 30° sides included Elevation 0°	<b>155 mm High Explosive</b> Distance 10 m Angle azimuth 360° Elevation: 0 - 90°
*Velocity tolerance +/- 20 m/s			

Multi-layer floor armoring meets STANAG 4569 Level 3a and 3b

STANAG 4569 Level	Mine Blast Threat	Conditions
1	Hand grenades, unexploded artillery fragmenting sub-munitions, and other small anti-personnel explosive devices	Any place under the vehicle
2	6 kg (TNT) Anti-Tank Mine	2a – Mine Explosion pressure under any wheel 2b – Mine Explosion under vehicle center
3	8 kg (TNT) Anti-Tank Mine	3a – Mine Explosion pressure under any wheel 3b – Mine Explosion under vehicle center
4	10 kg (TNT) Anti-Tank Mine	4a – Mine Explosion pressure under any wheel 4b – Mine Explosion under vehicle center



# TURAN LAMV

Turan LAMV Armored Personnel Carrier is intended for law enforcement and paramilitary branches for the transportation of troops in hostile environments. The CEN 1522 FB6 level protection APC is designed to offer an ideal combination of protection, mobility and payload, the compact size and mobility makes the Turan LAMV suitable for urban environments as well as semi-rural operations.

The standard vehicle comes in a three-door configuration, which offers seating for the driver, commander and a crew of six in the rear, it also can be customized in five-door variants and Vehicle Borne Assault System (VBAS) for buildings and aircraft assault. Superior ballistic protection is offered by the armored hull, while the floor can resist under-body blasts and grenade fragmentation.

The protection features can be further enhanced by optionally adding ceramic or composite add-on plates, blast mitigation floor mats, and anti-riot mesh protection.

## Technical Specifications

Engine Type	: 4.6 Diesel or 5.7 Petrol	Fuel Capacity	: 93 L or 138
Horsepower	: 232hp to 381hp	Seats	: Upto 9 people
Fuel Type	: Diesel/Petrol	Drive Configuration	: 4x4
Wheelbase	: 2,850mm	Dimensions	: L - 4942mm   W - 1850mm   H - 2165mm
Armoring Level	: CEN Level B6		
Suspension	: Suspension components are reinforced		
Transmission	: Automatic or Manual		



## TURAN ASV 4 x 4

TURAN ASV 4x4 Armored Personnel Carrier can be deployed for various missions, peace keeping operations and convoy escort. Impressive power and handling make TURAN ASV equally suited to urban and off-road deployment, the vehicle offers excellent protection against both ballistic and blast threats with crew compartment protection of CEN Level BR6 armor in various applications ranging from a battle field ambulance up to a fully armed direct fire vehicle.

INDEKS offers a wide range of extra additional features which can be integrated on the vehicle during manufacturing phase-guaranteeing total compatibility INDEKS include: rocket launch systems, remote-controlled weapon stations, smoke-grenade launchers, night-vision high speed camera, fully integrated intercoms systems.

### Technical Specifications

Engine Type : 6.7 Litre V8, Turbo Diesel	Transmission	: Automatic, Electronically controlled
Horsepower : 300hp @ 2,800rpm	Fuel Capacity	: 257L
Fuel Type : Diesel	Dimensions	: W - 2,438mm   L - 6,020mm   H - 2,378mm
Wheelbase : 3,567mm	Drive Configuration:	4x4
Seats : 6+2	Suspension	: Suspension components are reinforced



## TURAN MRAP 4 x 4

Turan MRAP 4x4 is a Mine Resistant Ambush Protected Vehicle / MRAP which is used primarily as a mounted infantry troop carrier and ground support vehicle for dismounted troops and can be easily configured as command and control vehicle, medical evacuation platform or as a forward observation platform (FOO). The vehicle offers its occupants blast protection to STANAG 4569 Level 3.

Turan MRAP 4x4 features a V-shaped monocoque armored hull design that offers advanced protection to the 10 man crew. Typhoon benefits from superior off-road mobility. The crew capacity consists of a driver, commander, 8 dismounts and a gunner.

### Technical Specifications

<p><b>Engine Type</b> : Cummins ISL 400, 8.9 L Turbo-Diesel Cummins ISBe4 300, 6.7 L Turbo-Diesel</p> <p><b>Horsepower</b> : 400hp @ 2100 rpm , 296hp @ 2500 RPM</p> <p><b>Fuel Type</b> : Diesel</p> <p><b>Wheelbase</b> : 3,775mm</p> <p><b>Armoring Level</b> : Up to STANAG Level 4</p> <p><b>Transmission</b> : Allison 3200 Series, 6 Speed Automatic</p> <p><b>Fuel Capacity</b> : 610 L Dual Tank</p>	<p><b>Dimensions</b> : W - 2,470mm   L - 7,000mm   H - 3,135mm</p> <p><b>Drive Configuration</b> : 4x4</p> <p><b>Suspension</b> : Suspension components are reinforced as necessary to compensate for additional weight of the vehicle</p>
---	--



## TURAN ZR-9 6 x 6

Turan ZR-9 6x6 is a Mine Resistant Ambush Protected / MRAP suitable for use as a military urban patrol vehicle and medium to heavy rural terrain platform. The vehicle incorporates advanced protection features and offers superior off-road mobility with integral tire inflation system.

Turan ZR-9 6x6 can be deployed on all types of mounted infantry troop movement such as long range patrols, convoy support and escort duties and is large enough to be configured to form a command and control unit or medical evacuation platform. The vehicle offers its occupants protection up to STANAG 4569 Level 2, the vehicles crew capacity consists of a driver, commander, 8 dismounts and a gunner.

### Technical Specifications

<b>Engine Type</b> : Caterpillar C9 Heavy Duty, 6 Cylinders In-Line, 7.2 L, Turbocharged DXi	<b>Transmission</b> : Caterpillar CX28 (6 Speed Automatic gearbox)
<b>Horsepower</b> : 450 hp@ 2100rpm	<b>Fuel Capacity</b> : 280 Liter
<b>Fuel Type</b> : Diesel	<b>Drive Configuration</b> : 6x6
<b>Wheelbase</b> : 4100 mm	<b>Suspension</b> : Suspension components are reinforced as necessary to compensate for additional weight of the vehicle
<b>Armoring Level</b> : STANAG 4569 Level 3+ anti-mine	
<b>Dimensions</b> : W - 2550 mm   L - 7484 mm   H - 3180 mm	



## TURAN ZR-D-07

Family of 4x4 armored vehicles TURAN ZR-D-07 Well protected, Highly maneuverable and Versatile, it is ready for today's rapidly

Designed, constructed and assembled according to modern standards with superior protection for crew members in mind.

Whatever are the highest demands for modern military vehicles – TURAN ZR-D-07 delivers.

Thanks to modular design, high mobility and excellent cross country performance TURAN ZR-D-07 is ready for Any-mission, Anytime, Anywhere.

Due to having modular body structure TURAN ZR-D-07 can be fully custom tailored per customers requirements for various missions:

- \*Armored Personal Carrier
- \*Armored Reconnaissance Vehicle
- \*Med Evacuation Vehicle
- \*Command and Control Unit
- \*Fire support vehicle (open turret machine gun)
- \*Patrol vehicle (remotely controlled weapon station)
- \*Platform for Anti Tank Guided Missiles
- \*Platform for Surface to Air Missiles

### Engine

Model Ford F-550, 6692m3, V-8  
 Working principle Power Stroke Turbo Diesel  
 Working principle 400 PS @ 3,000 rpm  
 Power/Weight 47hp/ ton  
 Max torque 680 Nm @ 2,000 rpm

### Options

- \*Thermal camera
- \*Display for troops
- \*Brakes Pneumatic ass by a hydraulic system
- \*Rubber gasket for vehicle door
- \*Dual alternator
- \*Penalty Front and Rear adapted axles







**INDEKS**

## TURAN ZR-D-07

Personnel		
Crew	3	3
Troops	6	4
Protection level options		
STANAG 4569 level II	7.62x39mm AP rounds	7.62x39mm AP rounds
STANAG 4569 Level III	7.62x54mm AP rounds	7.62x54mm AP rounds
Technical mobility		
Acceleration 0-100 kph	22sec	22sec
Max Speed	140km/h	140km/h
Cruising range @60 kph	500km	500km
Gradient	60%	60%
Side slope	40%	40%
Gap crossing	0.6m	0.6m
Fording	0.8m	0.8m
<b>Model</b>	Ford F-550, 6692m3, V-8	Ford F-550, 6692m3, V-8
<b>Working principle</b>	Power Stroke Turbo Diesel	Power Stroke Turbo Diesel
<b>Working principle</b>	300 PS @ 3,000 rpm	300 PS @ 3,000 rpm
<b>Max torque</b>	680 Nm @ 2,000 rpm	680 Nm @ 2,000 rpm
<b>Power/Weight</b>	47-40hp/ ton	47hp/ ton
Transmission		
<b>Make &amp; Model</b>	Ford	Ford
<b>Type</b>	Automatic	Automatic
<b>Gears – forward/reverse</b>	6/1	6/1
Transfer case		
<b>Make &amp; Model</b>	Ford	Ford
<b>Type</b>	Low, high, 4X2, 4X4	Low, high, 4X2, 4X4
Electric system		
<b>Voltage</b>	24V DC	24V DC
<b>Alternator</b>	200 amp	200 amp
<b>Battery</b>	78 amp/hr	78 amp/hr
Steering		
<b>Type</b>	Power Assisted Hydraulic	Power Assisted Hydraulic
<b>Single/selectable steering</b>	Single	Single
Wheels & Tires		
<b>Wheels</b>	12.5R20 MPT-80	12.5R20 MPT-80
<b>Ballistic resistant wheel flange</b>	Radial, Tubeless, equipped with <b>Run Flat System provides run flat</b> capability for 50km at 50km/h (Hutchinson)	Radial, Tubeless, equipped with <b>Run Flat System provides run flat</b> capability for 50km at 50km/h (Hutchinson)
<b>Tire type</b>		
Operating environment		
<b>Temperature range</b>	-32° to +55°	-32° to +55°
Visibility		
<b>Side windows – front / Crew</b>	2/4	2/3

# TURAN ZR-D-07



Open Turret with 12.7x108 mm NSV machinegun



Open Turret with 7.62x51 mm M-134 minigun



Remote Controlled Weapon Station with 12.7x108 mm NSV machinegun



Fire support vehicle (14.5x114 mm KPVT)



Armored Medical Evacuation Vehicle



Armored Command and control unit



Self propelled anty-tank complex



Short range mobile air defense unit



**TURAN ZR-M-07**



**Armored medical evacuation vehicle (AMEV)**

Armored medical evacuation vehicle's (designed and constructed by State Military-Scientific Center ) primary role is to insure high protection, superb mobility and providing full first medical aid while – transporting wounded soldiers directly from the front line of military operations .

Armored medical evacuation vehicle on universal 4x4 chassis is fully designed, assembled and tested by State Military Scientific Technical Center

**High mobility and Excellent survivability**

Any-mission, Anywhere – thanks to its powerful V8 Twin turbo charged engine which gives high power to weight ratio AMEV has a maximum 120 km/h speed on paved road and can navigate in any terrain or climate condition.

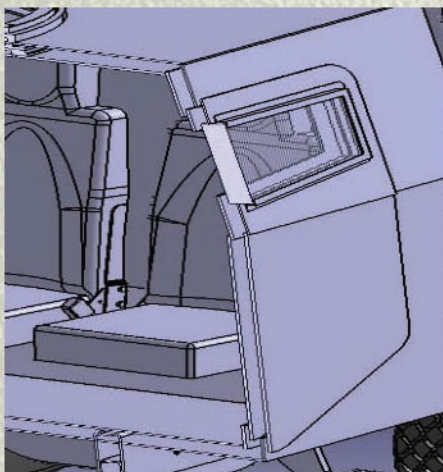
**World class protection**

The construction of the armored medical evacuation vehicle is assembled with Armox 500+ armored steel plates – in double layer construction and provides all-around protection according to EN1063 B7+ Standard for the crew located in front, rear medical compartment and engine compartment. The base of the vehicle is manufactured from the layer of armored steel – while the protection level is further enhanced by an add on armor panels – which can be easily removed or replaced – for replacement of damaged panes, upgrade/downgrade of vehicle protection level and Etc





## TURAN ZR-M-07



### Electrical

\* All standard electrical equipment of this vehicle is tested and modified as necessary to protect against the armoring process.

\* Additional electrical accessories (such as real lighting if required by client) is installed by qualified personnel and will use automotive grade or aviation grade electrical wiring in protective looms to ensure durability and ease of maintenance.

\* Cab Push Button Panel on cab console with back lighting for illumination that can control:

- Modular Disconnect
- Emergency Master
- Flashing lights
- Patient compartment lights
- Heat/Cool unit rear Off/Low/Med/High
- Street side Scene Lights
- Curbside Scene lights
- Rear scena light



## TURAN-ZR-M-07

### Interior

\*The interior of the box is equipped with the following features:

- \*Main wheeled stretcher with safety belt
- \*Folding Stretcher
- \*Patient compartment storage units and interior
- \*Sphygmomanometer, Stethoscope
- \*Various sockets to be included 12v and 220v.
- \*Power Inverter
- \*Internal roof lights for patient compartment
- \*Air conditioning system in patient compartment
- \*Strobe type light bar
- \*Siren public speaker system and amplifier
- \*Two Rear Projector Scene lights, One Side Projector Scene Light on both sides
- \*Complete First Aid Kit
- \*Oxygen Cylinder with bracket with regulator filter
- \*Ceiling mounted IV hooks
- \*Head immobilizer
- \*Manual Resuscitator
- \*Ambo set with adult mask with 3 size mask - Full set
- \*Fireextinguishers 2x2 KG and 2x1 KG
- \*Cervical Collar Adjustable
- \*Portable Search Light
- \*Window between driver cabin and patient compartment
- \*Portable Suction unit
- \*4 seater attendant bench with 3 point seat belts
- \*Oxygen Masks Adult and pediatric-x2
- \*Syringes various sizes full set.
- \*Sharps Container for biomedical waste.



### Climate control

- \*Vehicle cab is equipped with OEM air conditioning system.
- \*Air conditioning system in patient compartment
- \*The patient area will be air conditioned with a separate air conditioning:

**Cooling output : 8.2 kw**

**Heating power : 10kw**

**Air Flow : 841 m<sup>3</sup>/h**

**Electric consumption : 315w**



## TURAN ZR-M-07

DIMENSIONS		
Vehicle length	mm	6553
Wheel base	mm	3576
Front overhang	mm	968
Rear overhang	mm	1209
Cab to CL of 2 <sup>nd</sup> axle	mm	2134
Approach angle	°	40
Departure angle	°	35
Ramp angle	°	32
1 <sup>st</sup> axle ground clearance	mm	317
2 <sup>nd</sup> axle ground clearance	mm	322
Ground clearance ISO 612	mm	500
Height of chassis frame at 2 <sup>nd</sup> axle	mm	1066
Overall width	mm	2393
2 <sup>nd</sup> axle track width	mm	1727
	mm	869
WEIGHT		
Approved gross vehicle weight (GVW)	kg	9,800
Curbweight	kg	9,000
Max payload	kg	800
Front axle max. Limit	kg	5,049
Rear axle max. Limit	kg	6,710
Weight distribution on front axle	kg	3,850
Weight distribution on rear axle	kg	5,950
PERFORMANCES		
Max. speed on flat road surface	km/h	120
Cruising range on road at 90 km/h	km/h	500
Turning radius	M	7
CROSSING CAPACITY		
Gap crossing	Mm	600
Ford	Mm	800
straight-edged step	Mm	400
Gradient	%	60
Side slope	%	30



# MCB ZR-S-4x4

Technical Specifications	Description
Engine Power kW (HP Gasoline or diesel)	59,6(81) / 70(95)
Max Speed km/h	50*
Max weight	3300
Max light weight	2300
Max load capacity	1000
Load afloat	700
Max dimensions	4500*2500*2650
Ground clearance (mm)	660
Wheel base	3100
Turning radius (mm)	8,5
Max angle of climb	40
Angle of climb max height	0,6
Tire pressure (bar)	0,1-0,5
Max soil pressure (kg, cm <sup>2</sup> )	0,15
Number of seats	6-7
Max hitch hook capacity (kg)	1500

It reaches max speed on open and straight road conditions. Depending on the road conditions, the drive speed should be arranged.



## IND ZBR-4



## Teknik Özellikler

Koruma Cinsi	..	Kurşun Korumalı / Çift Korumalı
Tekerlek Formülü	..	8x8
Taşıma Kapasitesi	..	3+9
Özgül Güç	..	
* Kurşun Korumalı	..	en az 28,6
* Çift Korumalı	..	en az 20
Maksimum Hız		
* Yol Üzerinde	..	110 km/h
*Su Üzerinde	..	10 km/h kadar
Motor Tipi	..	Deutz Euro - 3
Motor Gücü	..	598 hp







**INDEKS**

## MILITARY TRUCK 4x4

		MAZ-543433	MAZ-5434X3	MAZ 543403
Ağırlık Kapasitesi	Payload jarried	9350 kg	7850 kg	
Yüklü Aracın Ağırlığı	Mass of the equipped Truck	8000 kg	8000 kg	8550 kg
Aracın Tam Ağırlığı	Gross mass of the Truck	17500 kg	16000 kg	
Yol üzerinde aracın yükü,	Load on eroad by the truck by gross mass,			
Ön Tekerlekler	Through Tress of front whels	6000 kg	7000 kg	
Arka Tekerlekler	Through Tress of rear whels	11500 kg	9000 kg	
Max. İzin verilen aracın toplam kütlesi % en az	Max. Rise over come by the truck by gross mass % not less	18%	18%	
<b>MOTOR / ENGINE</b>				
Motor Modeli	Engine Model	Deutz BF6M1013FC	YMZ - 65651 V6	CUMMINS 6ISBe
		Power:180 (245) HP , Max Torque: 900 Nm, EURO 3 ,DIESEL 6 culinder, in line, Deplacement Volume:7,15 lt, Ats Frequency of rotation, min -1 1400, Cooling Sytem: Liquid. Closed Type - Capacity. 27 lt, Lubrication Sytem Capacity. 19 lt	Power:198 (270) HP ,Max Torque: 1128 Nm, EURO 4 ,DIESEL,TURBO 6 culinder, in line	Power:285 HP EURO 4 ,DIESEL
Yakıt Sistemi	Fuel System	Elektronic Control.		
Yakıt Kapasitesi	Fuel Tank	350 lt	350 lt	350 lt
<b>ŞANZIMAN / CLUTCH</b>				
		Sürtüşmeli,Kuru,Tek Diskli,Hidrolik Yükselticili/ Frictioan , Dry.Single Disk. The Hydraulic Dry with Pnomatic Boester MF-395		
Vites Kutusu	Gear box	ZF 9S109	YMZ 2381-06	ZF 9S1310TO
		Mekanik Çift yüksek iletimli 9 hızlı senkronize dişli geri vites hariç/ Mechanical with dual pay transmissinon quantity of transfer is nine with synchroisers on all transmissins. Except of		
PTO	PTO reverse	ZF NH / 1 b	PTO	
Lastikler	Tures	12.00R20	14.00R20	



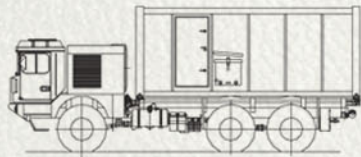
## MILITARY TRUCK 6x6

Tölerans dahil ön dingil	Tolerable on front axle	7150 kg	7150 kg
Tölerans dahil arka dingil	Tolerable on rear axle	18000kg	18000kg
Yüklü aracın ağırlığı	Equipped truck mass	14000kg	14000kg
Max. İzin verilen ağırlık kapasitesi	Tolerable palyoad carried	11000kg	11000kg
Platform hacimi	Volum of a platform	27,5m <sup>3</sup>	27,5m <sup>3</sup>
Motor tipi	Engine	YMZ-238DE2(Euro-3)	YMZ-7511,10(Euro-3)
Motor gücü	Power	243kW/330hp	294kW/400hp
Şanzuman	Gearbox	YMZ-239	YMZ-239
Vites sayısı	Number of speeds of the gearbox	9	9
Vites oranı	Gear ratio	6,59	6,59
Vites kutusu birim hızı	Quantity speed of transfer case	1	1
Vites kutusu vites oranı	Gear ratio of transfer case	1,107	1,107
Azami hız	High speed	85km/h	80km/h
Yakıt deposu	Fuel tank	350+200lt	350+200lt
Lastikler	Tyres dimensions	525/75R21 (geniş profilli)	
Platform tipi	Type of platform	Demir platform,açılabilen arka kapak, kafes konulabilir,çadır,katlanabilen raf, demir zemin döşemesi,bort yüksekliği 400mm/The metal platform with drop-side flank side and rear gates,tilted,metal floor	



OSM-TR-007

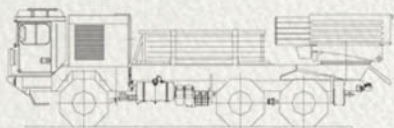
6X6



Command post



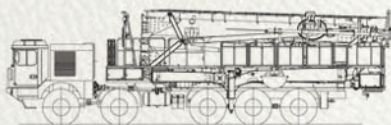
Engineering equipment



Multiple rocket launcher

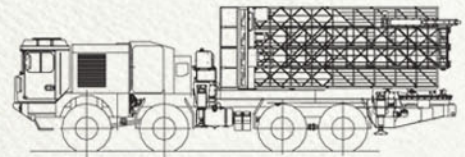


Coastal defence missile system (Bastion-P)

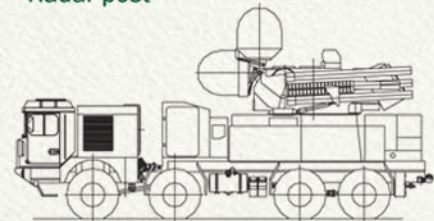


Antenna mast carrier

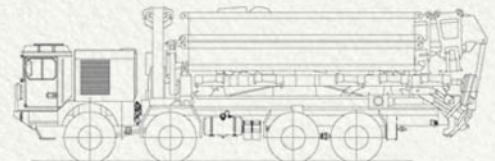
8X8



Radar post



Combat vehicle



Bridgelayer

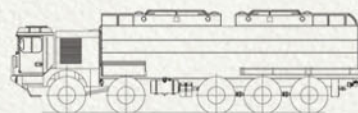
10X10



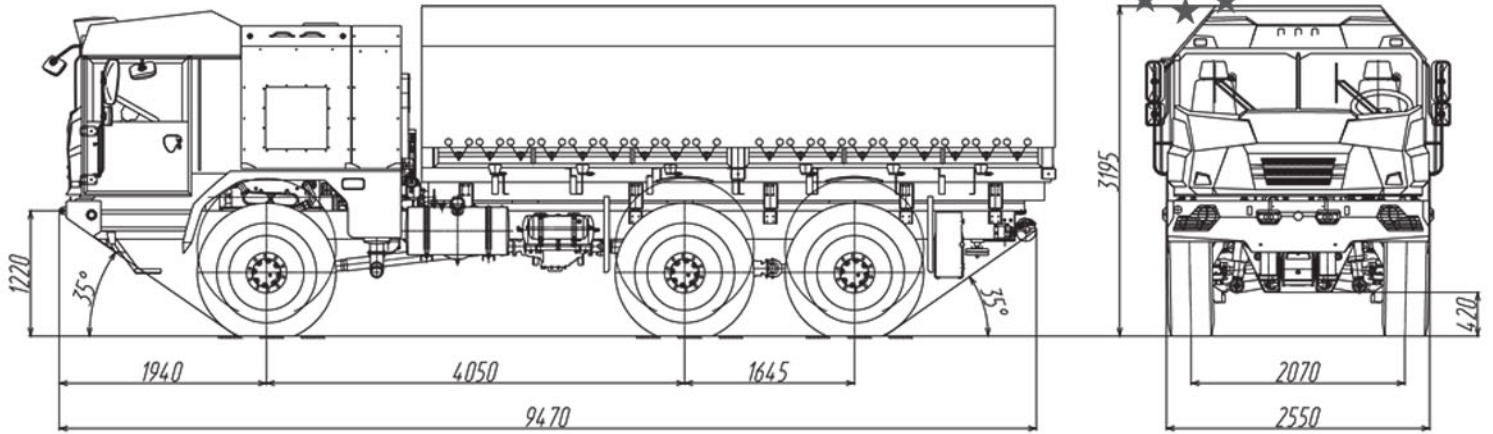
Multiple rocket launcher (Smerch)



Load handling system



Fuel tanker



## OSM-TR-007

### SPECIFICATIONS

#### PERFORMANCE DATA

Max. speed	110 km/h
Gradeability	60%
Angle of approach	35°
Angle of departure	35°
Ground clearance static	420 mm
Ground clearance range	260-650 mm
Climbing ability-vertical step	600 mm
Side slope	40%
Turning radius (curb to curb)	11,5 m
Crossing ability-fording depth / with preparation	1,4/1,8 m
Trench width	1 m
Cruising range	1000 km
Operating temperature	-40 - +50
Fuel tank capacity	270+270 l
Air transportable	C-130, C-160, A-400M, An-22, An-124, IL-76

#### WEIGHT DATA

Wheel drive	6x6
Gross vehicle weight	26000 kg
Curb vehicle weight	13300 kg
Payload	12500 kg
Permissible weight on axle	1x8000 kg 2x9000 kg

#### ENGINE

YAMZ-7513.10, diesel, V-shaped, 8-cylinder, turbocharged, intercooled, max. power – 309 kW (420 h.p.) at 1900 min<sup>-1</sup>, max. torque – 1815 Nm

#### TRANSMISSION

Automatic  
MZKT-4361

#### TRANSFER CASE

2-speed  
Gear ratio:  $i_1=1,0$ ;  $i_2=1,6$

#### FRONT AXLE

Steered, driven

#### REAR AXLES

Central reduction gear with interaxle and cross-axle differentials lock, planetary wheel hub reduction

#### AXLE SUSPENSION

Independent suspension, hydropneumatic with adjustable clearance

#### STEERING SYSTEM

Left hand drive, hydraulic power assisted

#### BRAKE SYSTEM

Air dual circuit braking system

#### TYRES/RIMS

16.00/R20, tubeless, rims -10.00-20

#### FRAME

Low-torsion ladder frame, coupled with bolted cross-members, steel bumper. Frame equipped in front with two towing forks and rear towing hook

#### CAB

Steel modular cab, 2 - door, 2 - seat, adjustable steering wheel, dashboard with clear displays, lighting instrumental panel with dimmer function, interior lighter and reading lamp

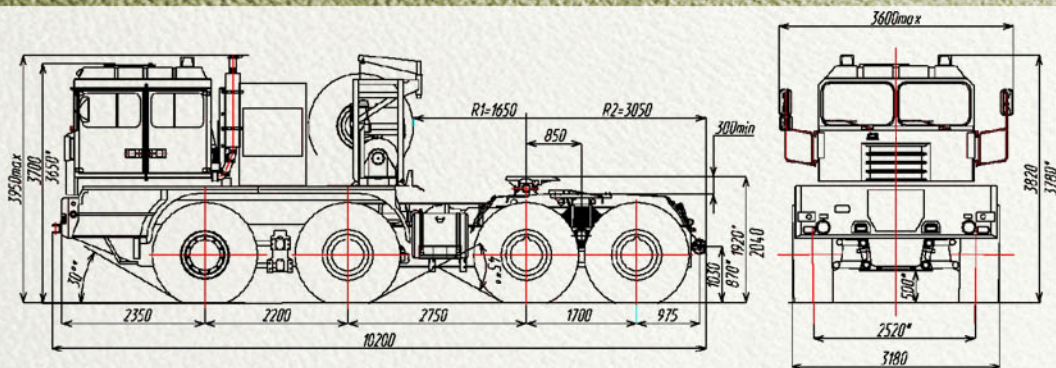
#### ELECTRICAL EQUIPMENT

Nominal voltage	24V
Batteries	2x190 Ah

#### OPTIONS

Alternative engine  
Recovery or self-recovery winch  
Powerful heater/ventilator  
Air conditioner  
Auxiliary heater  
2 large central LC display  
Pivoting roof hatch and machine gun holder or light anti-tank weapons  
Extended version of modular cab  
Armored cab  
ABS  
Tyre pressure control system  
Central tyre inflation system (CTIS)  
Runflat tyres  
Right hand drive

# OSM-T-007



## PERFORMANCE DATA

Wheel drive	8x8
Max. speed, km/h	70
Gradeability, %	25
Angle of approach	30°
Angle of departure	30°
Ground clearance, mm	500
Turning radius (curb to curb), m	15
Fuel tank capacity, l	770

## WEIGHT DATA

Curb vehicle weight, kg	26 000
Fifth wheel load, kg	27 000
Gross vehicle weight, kg	53 000
Permissible weight on axles, kg	
front axles	2x11 300
rear axles	2x15 200

## ENGINE

Type	Deutz BF 8M1015C
Number and location of cylinders	V8
Power	400 kW (544 h.p.) at 2100 min <sup>-1</sup>

## TRANSMISSION

Type	automatic
	Allison 4500 (PR)
Number of gears	6 forward, 1 reverse
Gear ratio	4.7-0.67

## TRANSFER CASE

Number of gears	2
Gear ratio	1:1; 1:1.88

## DRIVING AXLES

### 1-ST AND 2-ND

Steered, central reduction gears with differential systems, including self-locking, two-hinged axle shaft propeller shaft and planetary wheel reduction gears

### 3-RD AND 4-TH

Central reduction gears with differential systems, including self-locking, two-hinged axle shaft propeller shaft and planetary wheel reduction gears

## AXLE SUSPENSION

Front - independent, torsion bars  
Rear - two-lever, spring-balanced

## BRAKE SYSTEM

Shoe brakes with pneumohydraulic drive  
Emergency, parking, auxiliary (engine) and hydrodynamic (retarder) brake  
Semitrailer brakes pneumatic drive

## TYRES

Wide-profile, high cross-country capability  
Single tyres  
Central tyre inflation system (CTIS)  
23,5 - 25 or 23,5R25  
Number: 8+1

## FRAME

Longitudinal  
Welded, with crossbars  
Equipped with front and rear towing units

## CAB

Metallic framework, 7 seats or 3 seats + 2 sleeping berths.  
Equipped with ventilation and heating systems

## FIFTH WHEEL

Three degree of freedom, ø 3 1/2"

## ELECTRICAL EQUIPMENT

Nominal voltage, V 24  
Batteries 2pcs.

## WINCH

Double-drum with hydraulic drive  
Max. pulling capacity 2x250 kN

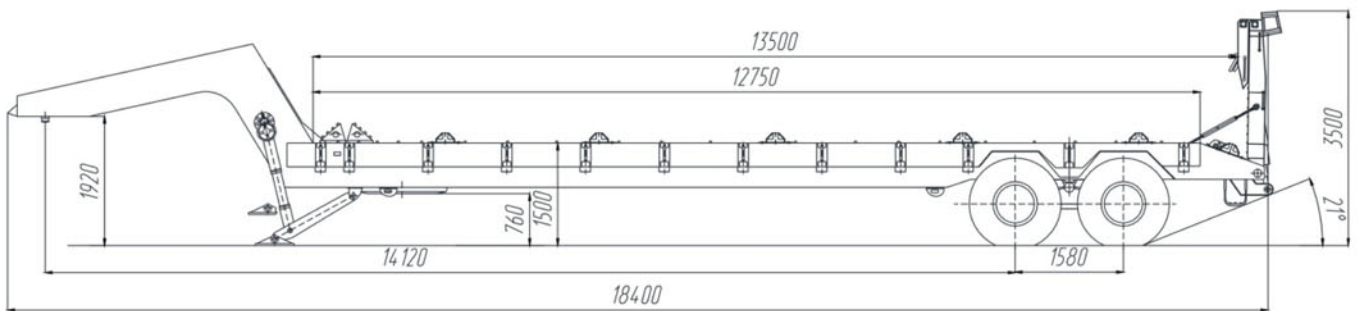
## SPECIAL EQUIPMENT

Automatic lubrication system  
Fire extinguishing system





## OSM-T-007



For transportation of two BMP-2 and other armored vehicles of weight up to 56 t

### PERFORMANCE DATA

Platform width, mm	3 200
Load height, mm	1 500
Overhang height	21°
Axles	2
King pin	3 ½"

### WEIGHT DATA

Curb semi-trailer weight, kg	19 000
Payload, kg	56 000
Gross semi-trailer weight, kg	75 000
Fifth-wheel load, kg	27 000
Permissible weight on axles, kg	2x24 000

### FRAME

Longitudinal  
Welded of rolled sheet  
Frame sheet flooring with anti-skid plates

### AXLE SUSPENSION

Equalizing type, of longitudinal and transversal (wheel) equalizer beams

### BRAKE SYSTEM

Pneumatic, two-line  
Wheel drum mechanisms of shoe type

### ELECTRICAL EQUIPMENT

Nominal voltage, V

24

### TYRES

16.00R20  
Number: 8+1

### RAMPS

Tilted, two-section with possibility to adjust extreme section by width. Hydraulic type lifting mechanism

### SPECIAL EQUIPMENT

Support and guide rollers  
Winch cable guide blocks  
Tracked article attachment braces  
Counter-recoil shoes  
Bumper bars

### SUPPORT UNIT

Two independent supports  
Mechanical and hydraulic jacks



## OT-HST-001

Category	Item	Unit	Parameter		
Dimension parameters	Overall length	mm	13180		
	Overall width	mm	2750		
	Overall height	mm	4000		
	Axle base	mm	1600+2475+1650		
	Wheel base	mm	2340		
Weight parameters	Total mass in driving state	kg	48000		
	Axle load	Axle 1	kg	12000	
		Axle 2	kg	12000	
		Axle 3	kg	12000	
		Axle 4	kg	12000	
Power parameters	Lower engine model	--	ISME 420 30	ISM11E4 440	
	Rated engine power	kw/(r/min)	306/1900	318/1900	
	Rated engine torque	N.m/(r/min)	2010/1200	2080/1200	
	Upper engine model	--	BF6M1013EC		
	Rated engine power	kw/(r/min)	174/2300		
	Rated engine torque	N.m/(r/min)	854/1400		
Driving parameters	Maximum driving speed	km/h	80		
	Turning diameter	Minimum turning diameter	m	18	
		Minimum boom head turning diameter	m	22.7	
	Minimum ground clearance	mm	280		
	Approach angle/ Departure angle	°	17/16.5		
	Braking distance (vehicle speed is 30km/h)	m	≤10		
	Maximum gradeability	%	60		
	Fuel consumption per hundred kilometers	L	60 (Xi'an Cummins)		





**OT-HST-001**

Category	Item	Unit	Parameter		
Main performance parameters	Maximum total rated lifting capacity	t	100		
	Maximum rated load moment	KN	3009		
	Minimum rated range	m	3		
	Turning radius at swing table tail	Counterweight	mm	4230	
		Auxiliary winch	mm	4510	
	Maximum load moment	Base boom	kN.m	2689	
	Outrigger span	Full-extend boom	kN.m	1960	
		Full-extend boom+jib	kN.m	392	
	Outrigger span	Longitudinal	m	8.76	
		Horizontal	m	7	
	Lifting height	Base boom	m	12.7	
		Full-extend boom	m	60.6	
		Full-extend boom+jib	m	85.9	
	Boom length	Base boom	m	11.7	
		Full-extend boom	m	60	
Full-extend boom+jib		m	88.2		
Offset angle of fly jib		°	0/15/30		
Working speed parameters	Boom elevation up time	s	50		
	Boom full extension time	s	550		
	Slewing speed	r/min	0~1.7		
	Outrigger telescopic time	Horizontal outrigger	Simultaneous extension on one side	s	30
			Simultaneous retract on one side	s	40
		Vertical outrigger	Simultaneous extension	s	30
			Simultaneous retract	s	40
	Lifting speed	Main hoisting mechanism(single rope, the fifth layer)	Empty load	m/min	130
Auxiliary hoisting mechanism(single rope, the second layer)		Empty load	m/min	97	

# İNDEKS

## İNDEKS

IND MC 45

### CT-HST-002

Kapasite	45 t
Max Bom Uzunluğu	32,0 m
Max Bom Yüksekliği	34,5 m
Dingil	2
Çekiş	4x4
Lastikler	16.00x25
Motor	CATERPILLAR C6.6 6 silindir Dizel Su Soğutmalı / Turbo Şarjlı 116,5 kW @ 2.200 rpm 683 Nm @ 1.400 rpm 4 zamanlı
Motor Çalışma Sıcaklığı	-25 / + 45°C
Yakıt Sarfıyatı	30 lt / h
Vites	6 ileri 6 geri
Hız	20 km/h
Ölçüler (UxGxY)	12.7x2.52x3.43
Ağırlık	29.800 kg
Tırmanma kabiliyeti	70%
Yakıt Deposu Kapasitesi	200 lt
Yağ Tankı Kapasitesi	430 lt
Kanca Ağırlığı	550 kg
Bom Çalışma Açısı	0° + 80°

10,1 m - 17,4 m	360° / 0°	0 km/h			3 km/h			m
		360°			0°			
		10,1 m	13,8 m	17,4 m	10,1 m	13,8 m	17,4 m	
2,5				18,8	14,0		2,5	
3,0				18,8	13,0		3,0	
3,5				16,7	12,0		3,5	
4,0				15,1	11,0	10,0	4,0	
4,5				13,7	10,0	9,0	4,5	
5,0				12,5	9,0	8,0	5,0	
6,0				10,4	8,0	7,0	6,0	
7,0				7,9	7,0	6,0	7,0	
8,0				6,2	5,9	5,0	8,0	
9,0					4,7	4,0	9,0	
10,0					3,8	3,5	10,0	
12,0					2,5	2,4	12,0	
14,0						1,6	14,0	
15,0						1,2	15,0	



**IND MC 60**

### Technical Data

	Item	Unit	Value
Working performance	Max. rated lifting capacity x working radius	kg.m	6000x2.8
	Max. load moment of basic jib	kN.m	1991
	Max. load moment of max. length main boom	kN.m	1166
	Max. lifting height of max. length main boom	m	45.4
	Max. lifting height of jib	m	62.2
Dimensions	Overall dimensions (L x W x H)	mm	13662x3300x3750
	Distance between outriggers (Longitudinal x transversal)	mm	6900x6900
	Main boom length (Completely retracted - completely extended)	mm	11400-43000
	Jib length (Jib section 1 + jib section 1 + jib section 2)	mm	10000-17000
	Boom angle	°	-3-78
	Swing range		360° unlimited swing (Full range)
Working speeds	Max. hoist rope speed (Main winch)	m/min	150
	Min. boom telescoping out time	s	140
	Min. boom telescoping in time	s	120
	Min. boom derricking up time	s	60
	Min. boom derricking down time	s	65
	Swing speed	r/min	0-2
Hydraulic system	Rated working pressure	MPa	28
	Rated working flow	L/min	400
	Hydraulic oil tank capacity	L	730
Mass	Complete vehicle kerb mass	kg	44260
	Front axle load	kg	25220
	Rear axle load	kg	19040
	Max. driving speed (Forwards / backwards)	km/h	39
Driving	Wheelbase	mm	3950
	Treads (Front / Rear)	mm	2605
	Max. gradeability	%	75

**İNDEKS**

## IND FD 35

Güç tipi		Dizel
Rated Kapasitesi	Kg	3500
Yükleme merkezi	mm	500
Kaldırma yüksekliği	mm	3000
Serbest kaldırma yüksekliği	mm	155
Çatal boyutu	L X W X T	mm 1070X140X45
Direk eğim aralığı	F/R	deg 6/12
Çatal kaldırma mesafesi	mm	485
Arka kaldırma mesafesi	mm	555
Genel Boyutları	Çatalın yüzünden uzunluğu	mm 2800
	Toplam genişlik	mm 1225
	Direk indirilen yükseklik	mm 2160
	Direk uzatılmı yükseklik	mm 4140
	Tavan koruma yüksekliği	mm 2150
Dönme yarıçapı (dış)	mm	2415
Min. Doğru açılı istifleme kanadı genişliği	mm	2900
Hız	Seyahat (yüksüz)	Km/h 18
	Kaldırma (tam yüklü)	mm/sec 460
	İndirme (tam yüklü)	mm/sec 500
Mak. Çekme (tam yüklü)	N. M	23600
Mak. Derecelendirebilirlik(tam yüklü)	%	15
Tekerlek	Ön	mm 28X9-15-12PR
	Arka	mm 6,50-10-10PR
Dingil Açıklığı	mm	1760
Yerden yüksekliği	En düşük	130
	Dingil mesafesi merkezi	175
Kendi ağırlığı	Kg	4555
Ağırlık dağılımı	Tam yüklü	Ön/Arka 7195/860
	Yüksüz	Ön/Arka 1890/2665
Akü	Gerilim/ kapasite	12/100
Motor	Model	4TNE98-BQFLC
	Üretim	V/AH YANMAR
	Nominal çıktı / r.p.m.	kw 44,3/2300
	Puanlanmış tork/ r.p.m.	N. M 206/1700
	Silindir numarası	4
	Delik X İne	mm 98X110
	STD emisyonu	Stage IIIA/Tier 3
	Displacement	cc 3319
Yakıt deposu kapasitesi	L 60	

**İNDEKS**

## IND TT 25

<b>Çekiş gücü</b>		2500	kg
<b>Maksimum Hız</b>	<b>1. Vites</b>	13	km/h
	<b>2.Vites</b>	25.5	km/h
	<b>Geri Vites</b>	10.5	km/h
<b>Dönme Yarıçapı (Dış)</b>		3250	mm
<b>Tırmanma Açısı( 1. Vites)</b>		30	%
<b>Aksa Başına binen Yük</b>	<b>Ön Aks</b>	990	kg
	<b>Arka Aks</b>	2530	kg
<b>Net Ağırlık</b>		3520	kg
<b>Motor Markası</b>		Yanmar	
<b>Motor Modeli</b>		4TNE98	
<b>Yakıt Tipi</b>		Dizel	
<b>Silindir Strok Oranı</b>		98 x 110	mm
<b>Silindir Hacmi</b>		3319	L
<b>Motor Gücü</b>		44,3/2300	kW/rpm
<b>Motor Torku</b>		186-206/1700	N.m/rpm
<b>Yakıt Tankı Kapasitesi</b>		85	L
<b>Uzunluk</b>		3020	mm
<b>Genişlik</b>		1480	mm
<b>Yükseklik</b>	<b>Kabinsiz</b>	1390	mm
	<b>Kabinli</b>	1826	mm
<b>Aks Mesafesi</b>		1700	mm
<b>Yerden Yükseklik</b>		120	mm
<b>Çekme Kancası Yüksekliği</b>		450	mm
<b>Akü</b>		12/90	V/A.h
<b>Şanzuman Markası</b>		Okamura	
<b>Şanzuman modeli</b>		Y43300X	
<b>Vites Tipi</b>		Otomatik	
<b>Vites Oranı</b>		2 ileri, 1 geri	
<b>Fren Sistemi</b>	<b>Motor Freni</b>	Hidrolik	
	<b>Park Freni</b>	Mekanik	
<b>Lastikler</b>	<b>Ön</b>	6,50-10-10PR	
	<b>Arka</b>	7,00-12-12PR	



Fabrika : Ulukent Sanayi Bölgesi 10001 Sk. No.40

Menemen / izmir / Turkey

Tel: +90 232 328 19 80

Fax: +90 232 328 19 01

[www.indeks.com.tr](http://www.indeks.com.tr)

[www.mazturkiye.com.tr](http://www.mazturkiye.com.tr)