



EXCALIBUR ARMY

ENGINES
AND SPARE PARTS

www.excaliburarmy.cz





**EXCALIBUR
ARMY**

ENGINES AND SPARE PARTS

OUR MISSION

04-05

ENGINES

06-17

ENGINE UTD-20
ENGINE UTD-29
ENGINE V-6M
ENGINE V-55 AM2
ENGINE TE 2T 1050
ENGINE V-46.6
ENGINE V-55A
ENGINE V-6-P1
ENGINE KAMAZ 7401
ENGINE JAMZ-238N
ENGINE V-6M-K37
ENGINE V-84
ENGINE T3C-930-50-600K

SPARE PARTS

18-19



**PROTECT
YOUR WORLD**



We believe in a peaceful world where people are free to live by their traditions and feel safe so they can live to the full extent of their dreams. Yet freedom and security are values that need to be protected.

EXCALIBUR ARMY designs, develops and produces a wide range of military vehicles and equipment. We strive to offer only high quality products and provide a variety of services for our customers all around the world. Our production and repair facilities have decades long tradition that reaches back to 1950s. All these years we have never ceased to understand the importance of military industry for national and international security and we are still standing proud by the code that of freedom in defence of which so many lives were lost.

Just as the soldiers of today, we would never wish for history to repeat. We admire their motivation, we are grateful for their determination and thankful for their service. Our first mission is to equip and protect those who have decided to protect you, your future, your world, your way of life and your peaceful traditions and values.

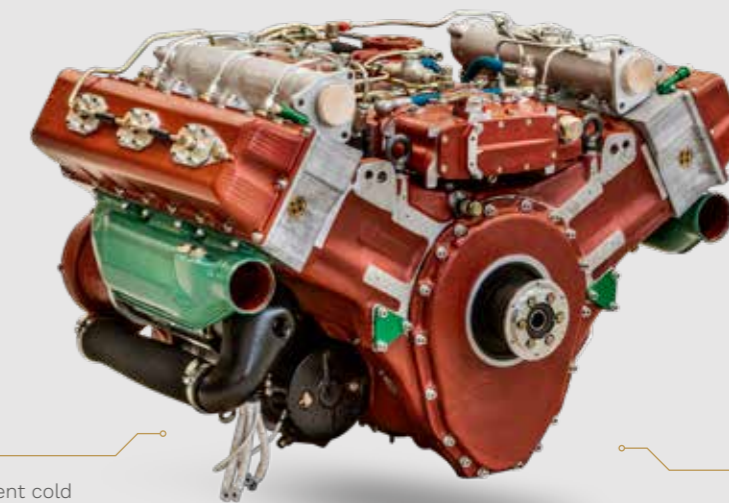
We are here to help you protect everything that is dear to you.

EXCALIBUR ARMY

ENGINES

EXCALIBUR ARMY sells various engines and performs overhaul and revisions of all mentioned types of engines according to customer needs, including subgroups such as injection pumps, oil and water pumps, fuel and oil filters, turbo compressors, blowers, dynamos, alternators and starters. We also modify selected engines to improve output, fuel consumption and reduce exhaust gas production.

Thanks to our production capacities and large stocks, we also offer a great number of engine spare parts, especially for T-72 and T-55 tanks, BMPs, and also PANDUR APC/IFV, RM-70 MLRS, DANA SPG, OT-64, BRDM-2, AM-50, TATRA T 813, T 815, T 810 and others.



BFP

Modified for efficient cold weather start.

UTD-20 S1

DESCRIPTION
6-CYLINDER
V 120 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output	220kW
Used in	BMP-1, BMP-2 and their variants
Max. fuel consumption	238g/kWh at 2,600rpm
Max. oil consumption	8.2g/kWh at 2,200rpm
Max. torque (Nm)	1,030Nm
The oil pressure in the main pipe	0.7-1MPa
Fuel	Diesel
Weight of the engine	665kg
Engine dimensions	L 834 mm
	W 1,150 mm
	H 757 mm

Output		338 kW
Used in		BMP-3
Max. fuel consumption		251g/kWh at 2,600rpm
Max. oil consumption		6.8 g/kWh at 2,200rpm
Max. torque (Nm)		1,461Nm
The oil pressure in the main pipe		0.8-1.2 MPa
Fuel		Diesel
Weight of the engine		850 kg
Engine dimensions	L	997 mm
	W	1,228 mm
	H	598 mm

UTD-29

DESCRIPTION
10-CYLINDER
V 150 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED



Output		456 kW
Used in		T-55 AM2
Max. fuel consumption		247.5k/kWh at 2,000rpm
Max. oil consumption		8 g/kWh at 1,800rpm
Max. torque (Nm)		2,404Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		910 kg
Engine dimensions	L	1,580 mm
	W	905 mm
	H	920 mm

V-55 AM2

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED



V-6M

DESCRIPTION
6-CYLINDER
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		206 kW
Used in		GM
Max. fuel consumption		249 g/kWh at 2,000rpm
Max. oil consumption		8g/kWh at 1,800rpm
Max. torque (Nm)		1,176 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		825 kg
Engine dimensions	L	1,402 mm
	W	873 mm
	H	997 mm



TE 2T 1050

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT FUEL INJECTION
4 STROKE
WATER COOLED

Output		783 kW
Used in		kit available for MBT upgrades
Max. fuel consumption		228g/kWh at 2,000 rpm
Max. oil consumption		6g/kWh at 1,800 rpm
Max. torque (Nm)		4,600 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		1,060 kg
Engine dimensions	L	1,615 mm
	W	1,010 mm
	H	949 mm



V-46.6

DESCRIPTION
 12-CYLINDER
 V 60 DEGREES
 DIRECT INJECTION
 4 STROKE
 WATER COOLED



Output	573.7kW	
Used in	T-72	
Max. fuel consumption	245g/kWh at 2,000rpm	
Max. oil consumption	9.52g/kWh at 1,800rpm	
Max. torque (Nm)	3,098Nm	
The oil pressure in the main pipe	0.7-1MPa	
Fuel	Diesel	
Weight of the engine	980kg	
Engine dimensions	L	1,480 mm
	W	896mm
	H	902mm



V-55A

DESCRIPTION
 12-CYLINDER
 V 60 DEGREES
 DIRECT INJECTION
 4 STROKE
 WATER COOLED



Output	426kW	
Used in	T-55	
Max. fuel consumption	247.5g/kWh at 2,000rpm	
Max. oil consumption	8g/kWh at 1,800rpm	
Max. torque (Nm)	2,226Nm	
The oil pressure in the main pipe	0.7-1MPa	
Fuel	Diesel	
Weight of the engine	910 kg	
Engine dimensions	L	1,580 mm
	W	905 mm
	H	920 mm

Output		191kW
Used in		ZSU-23-4 SHILKA
Max. fuel consumption		245g/kWh at 1,800rpm
Max. oil consumption		8 g/kWh at 1,800rpm
Max. torque (Nm)		1,060Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		825kg
Engine dimensions	L	1,402mm
	W	873mm
	H	997mm

V-6-P1

DESCRIPTION
6-CYLINDER
DIRECT INJECTION
4 STROKE
WATER COOLED



Output		220kW
Used in		2 S-1
Max fuel consumption		258g/kWh at 2100rpm
Max torque (Nm)		1,080Nm
The oil pressure in main pipe		0.4-0.7MPa
Fuel		Diesel
Weight of the engine		1,560kg
Engine dimensions	L	1,338mm
	W	1,045mm
	H	1,100mm

JAMZ-238N

DESCRIPTION
8-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED



Output		210kW
Used in		Kamaz
Max fuel consumption		242g/kWh at 2600rpm
Max torque (Nm)		650Nm
The oil pressure in main pipe		0.2-0.6MPa
Fuel		Diesel
Weight of the engine		795g
Engine dimensions	L	1,150mm
	W	7,85mm
	H	1,400mm

KAMAZ - 7401

DESCRIPTION
8-CYLINDER
V 90 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED



V-6M-K37

DESCRIPTION
10-CYLINDER
V 144 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		260kW
Used in		GM 578
Max fuel consumption		238g/kWh at 2000rpm
Max oil consumption		6.8g/kWh at 1600rpm
Max torque (Nm)		1,470Nm
The oil pressure in main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		875kg
Engine dimensions	L	1,755mm
	W	873mm
	H	997mm



V-84

DESCRIPTION
 12-CYLINDER
 V 60 DEGREES
 DIRECT INJECTION
 4 STROKE
 WATER COOLED



Output	430 kW
Used in	Multifunctional engine for military and non-military vehicles
Max fuel consumption	265.2g/kWh at 1800rpm
Max torque (Nm)	2,800 Nm
The oil pressure in main pipe	0.1-0.4 MPa
Fuel	Diesel
Weight of the engine	1,450 Kg
Weight of the engine	980 kg
Engine dimensions	L 2,040 mm
	W 1,002 mm
	H 1,225 mm

Output	624 kW
Used in	T-72 B (M)
Max. fuel consumption	259.9g/kWh at 2,000rpm
Max. oil consumption	8g/kWh at 1,800rpm
Max. torque (Nm)	3,483 Nm
The oil pressure in the main pipe	0.7-1 MPa
Fuel	Diesel
Weight of the engine	980 kg
Engine dimensions	L 1,480 mm
	W 896 mm
	H 902 mm



T3C-930-50-600K

DESCRIPTION
 12-CYLINDER
 V 60 DEGREES
 DIRECT INJECTION
 4 STROKE
 AIR COOLED



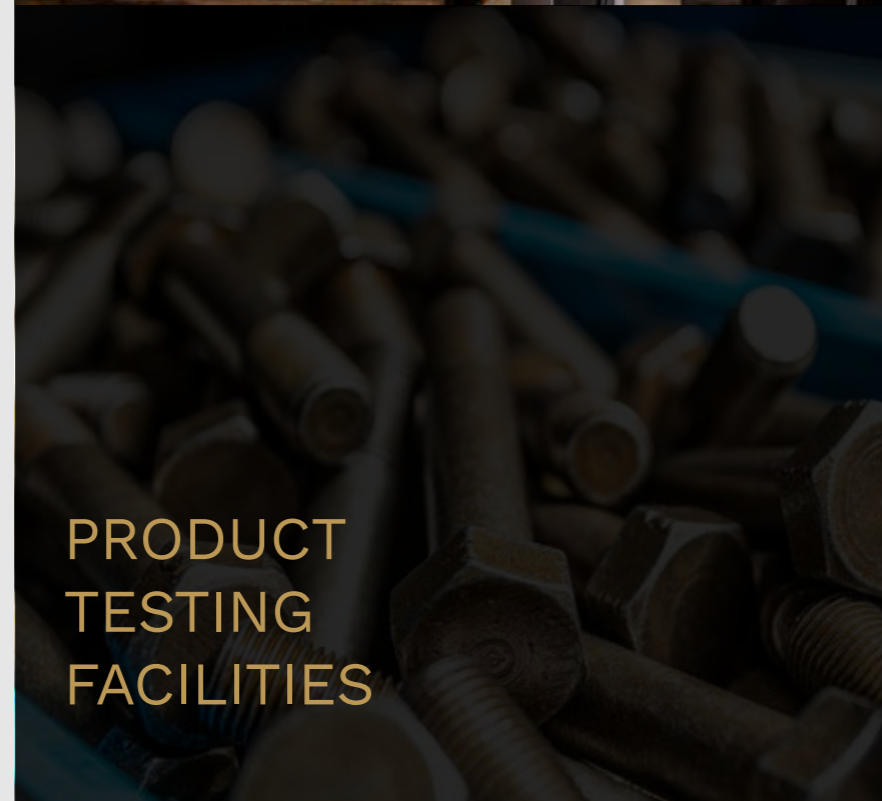
SPARE PARTS

We supply a complete range of electrical, mechanical and structural spare parts for our products. Due to our large stock and production capacities we can also provide fast delivery of many parts for T-55, T-72 and BMP vehicles and secure genuine production of the less available spare parts.

We take great care to provide high quality parts only. We offer also spare parts for the PANDUR APC/IFV, RM-70 MLRS, DANA SPG, OT-64, BRDM-2, AM-50, TATRA T 813, T 815, T 810 and other vehicles, weapons or engines. All assembly components, such as hydraulic pumps or engines, are subject to extensive testing before delivery.



LARGE SPARE PARTS STOCK



PRODUCT TESTING FACILITIES



THOROUGH KNOWLEDGE OF ENGINES AND TRANSMISSIONS



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