

LIGHT TACTICAL ARMORED VEHICLE

KOZAK-7



PRACTIKA
www.practika.ua

FORD F550

WORLD-USING CHASSIS

FOR UTILITY ARMORED VEHICLES



STC DIDGORY 2 (GEORGIA)



IAG GUARDIAN (UAE)

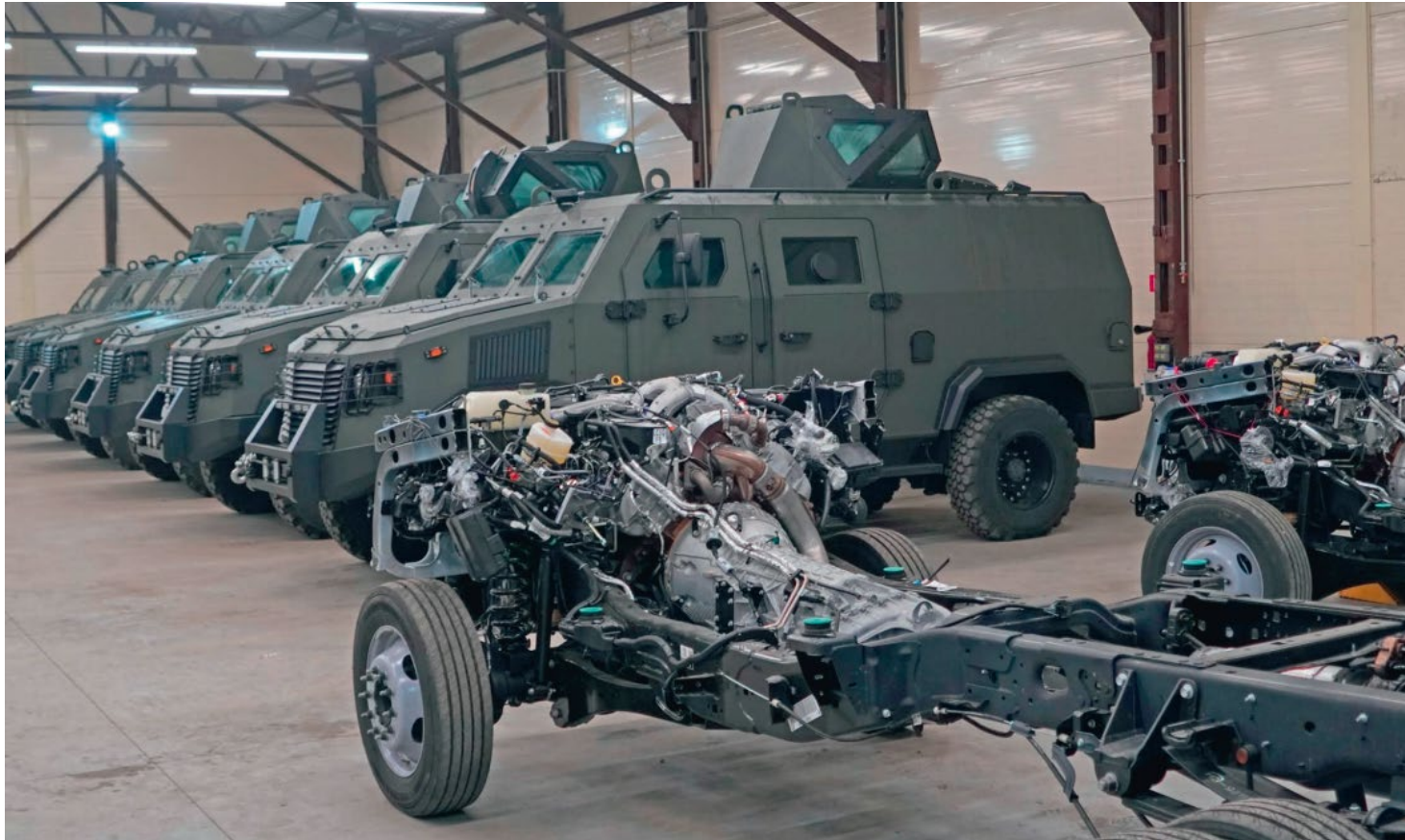


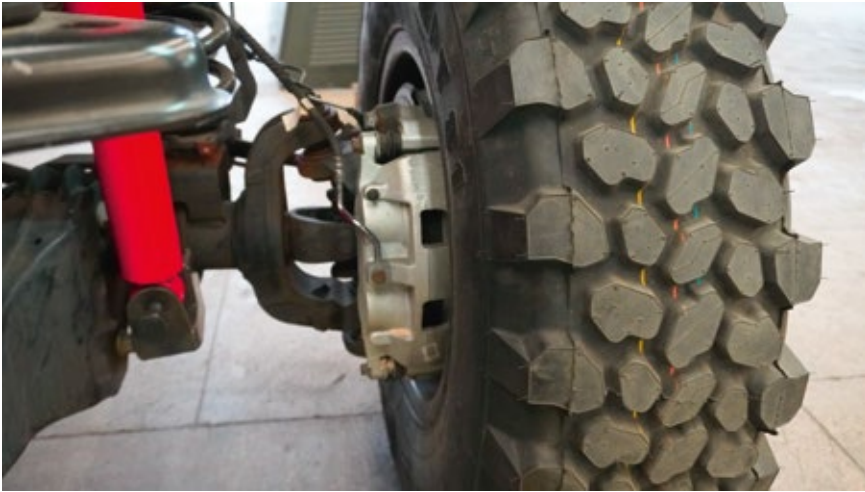
OSHKOSH/PLASAN SANDCAT (USA/ISRAEL)



TERRADYNE GURKHA (CANADA)

PRACTIKA USES FORD F550 AS CHASSIS FOR KOZAK-7 VEHICLE





FORD F550

CHASSIS ADVANTAGES AND LIMITATIONS



USUAL DECISION

Ford F550 advantages

- Very good engine and transmission
- Durable frame
- Ford service all over the world

MERITOR DECISION

IDEAL CHASSIS FOR UTILITY ARMORED VEHICLES PRODUCTION

... while, it has some deficiencies:

- Front axle has only 7500 lbs (3,4 t) payload capacity
- Full chassis payload capacity only 8,8 t.
- Front/rear axles weight distribution 39%/61%
- Brake system power calculated only for 8,8 t. weight

- Front axle with 1200 lbs (**5,5 t**) payload capacity
- Full chassis payload reaches 11,8 t. (**+ 3,0 t.**)
- Front/rear axles weight distribution **47%/53%**
- Brake system power calculated for all 11,8 t. weight

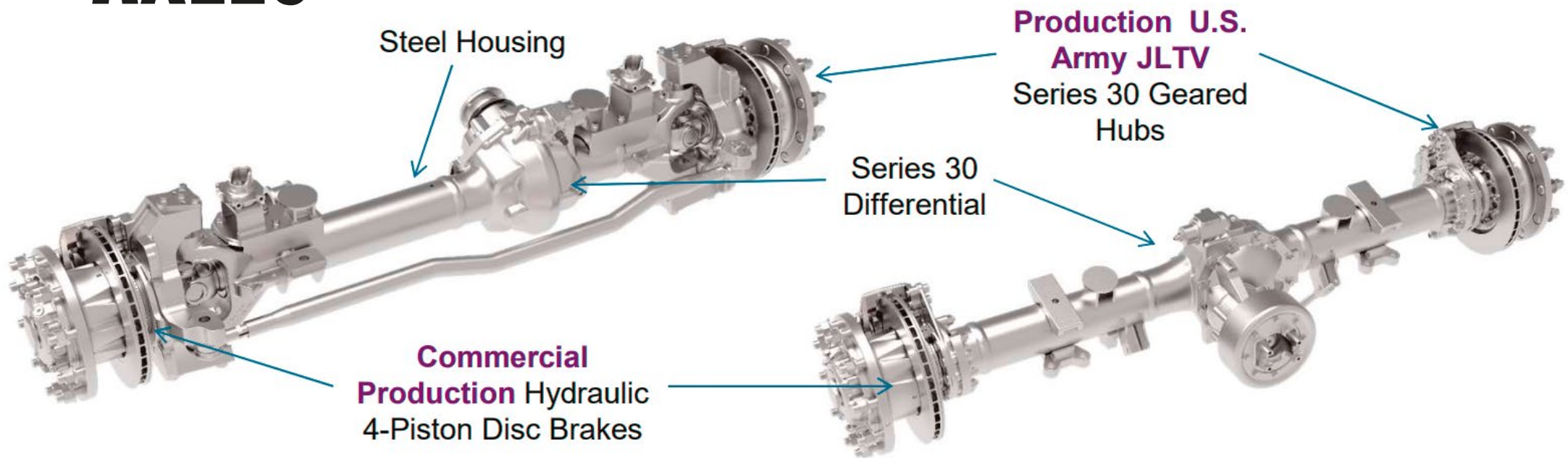
Plus some additional advantages, that **CANNOT BE REACHED WITH JUST SUSPENSION REINFORCEMENT**

- Central Tire Inflation System
- JLTV milspec wheel ends
- Excellent ride quality (stability, driveability etc.)
- Longer lifetime and high reliability

THAT'S WHY THE SUSPENSION REINFORCEMENT IS NEEDED.

NEW AXLES

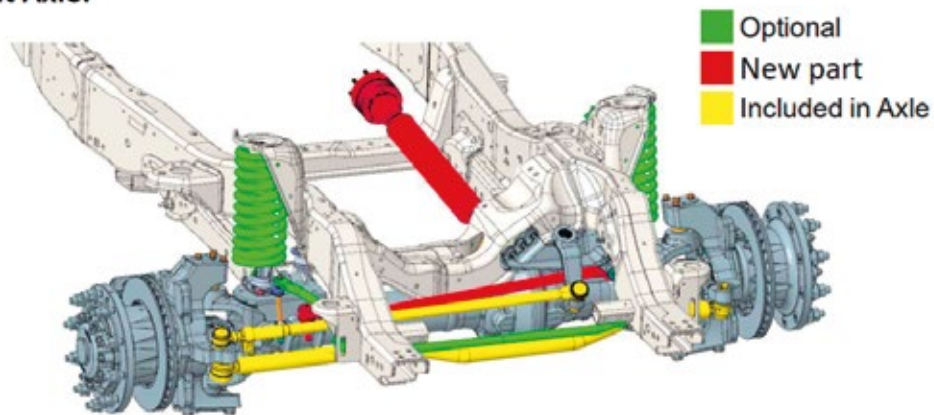
MAIN FEATURES



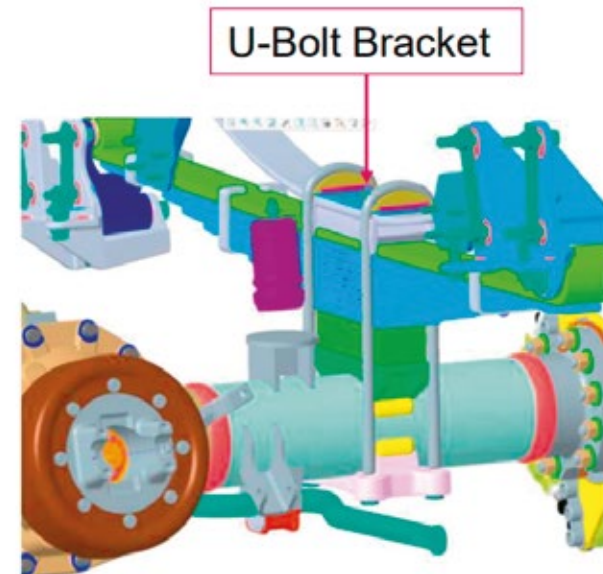
QUITE EASY INTEGRATION

	Description	Rear	Quantity Req'd
Front	Track Bar, Front	New part	1
	Driveshaft Assy	New part	1
	Flange, Driveshaft	New part	1
	Coil Spring, Front	Optional - Can use stock	2
	Shock, Front	Optional - Can use stock	2
	Anti-roll Bar, Front	Optional - Can use stock	1
	Hydraulic Ram Assist	Optional - Can use stock	1
Rear	U-Bolt Bracket	New part	2
	Leaf Spring, Rear	Optional - Can use stock	1
	Shock, Rear	Optional - Can use stock	2

Front Axle:



Rear Axle:



GAINS

BY THESE NEW MILSPEC AXLES KOZAK-7 OBTAINS OFF-ROAD

PERFORMANCE ON THE LEVEL

OF

TACTICAL VEHICLES

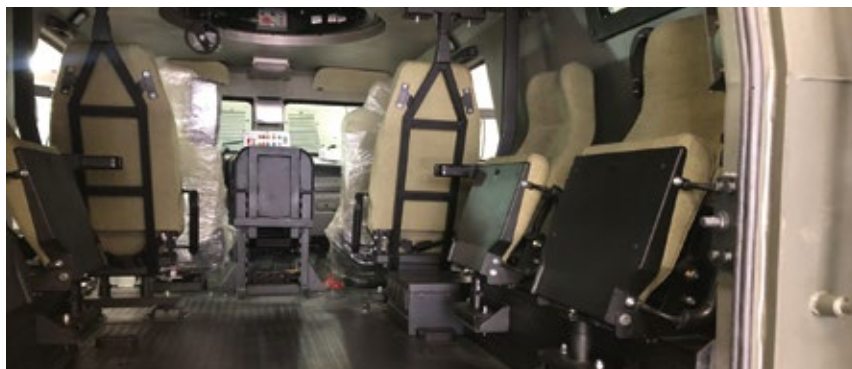
ENHANCED RELIABILITY

- 96 000 km. durability testing (military duty)
- Higher durability of axles housing
- US military production wheel ends, used on JLTV
- Patented Meritor Quadraulic 4-pistons brakes
- Better axle-by-axle weight distribution (47%/53%), that prevents overloading of front axle

IMPROVED OFF-ROAD PERFORMANCE

- Increased axles payload capacity (11,8 t)
- Lesser turning radius (6,25 meters)
- Higher wheel travel (305 mm.)
- Differential lock on both axles
- Central Tire Inflation System





OTHER ADVANTAGES

HIGH LEVEL OF ERGONOMICS

KOZAK-7 is designed taking into account, that crew can spent a long time inside vehicle. That's why the crew compartment is spacious, with comfortable internal height. Floor has special shaped covering, to prevent slippage of the wet shoes. Every of seating places has individual holders for weapon and pans for ammunition.

- KOZAK-7 has two options
- 5-persons vehicle (with cargo compartment)
- 10-persons vehicle.

OTHER ADVANTAGES

ENHANCED CLIMATIC SYSTEM FOR HOT COUNTRIES

KOZAK-7 is equipped with complex climatic system that maintains comfortable temperature conditions inside the vehicle. Specially for hot climate the additional AC evaporator of increased capacity is installed.



OTHER ADVANTAGES

CLOSED TURRET FOR URBAN COMBATS

KOZAK-7 is equipped closed turret, that protects gunner from all sides, including protection from fire from the roofs. Level of turret ballistic protection is equal to level of hull ballistic protection.



OTHER ADVANTAGES

EASY LOGISTICS

Due to relatively small sizes KOZAK-7 can be transported even in regular sea containers.



OTHER ADVANTAGES

MULTIPURPOSE

Armored personnel carrier



Tactical/reconnaissance vehicle



Mortar carrier



Repair vehicle



Command-and-control vehicle



Medivac

