

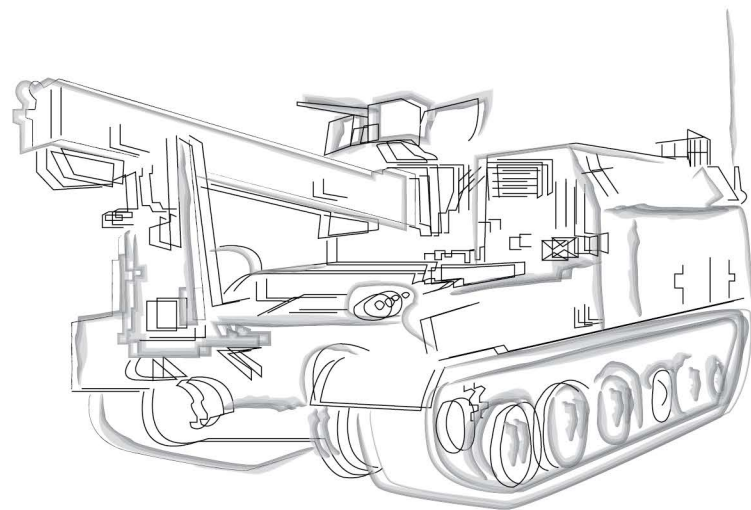
OPTIMIZE YOUR PROCUREMENT



MENATEK
Defense Technologies

 www.menatek.com.tr

“ While taking full responsibility, Menatek provides one-stop shop for its customers’ manufacturing requirements, by using the full capability of the Turkish Manufacturing Industry ”



WHY NOT?

In-house Capabilities:

- Ultra-Precise CNC Machining
- Assembly
- Engineering
- Testing & Test Bench Design
- Subtier Sourcing
- Painting

of Facilities: 2

Total Surface Area: 4,600 m2
of Machines: 20 CNC Machines (12 Simultaneous 5-Axis)
3 CMM Machines

Direct Supplying:

- US Army
- Turkish Army
- NSPA
- International Vehicle Manufacturers
- International OEMs

580+ Strategic Suppliers

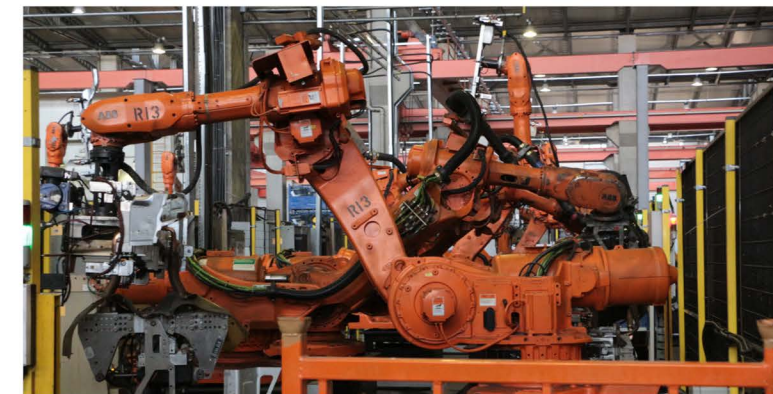
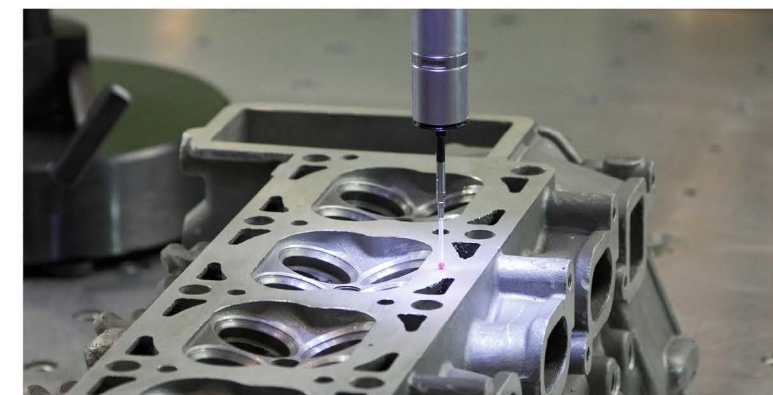
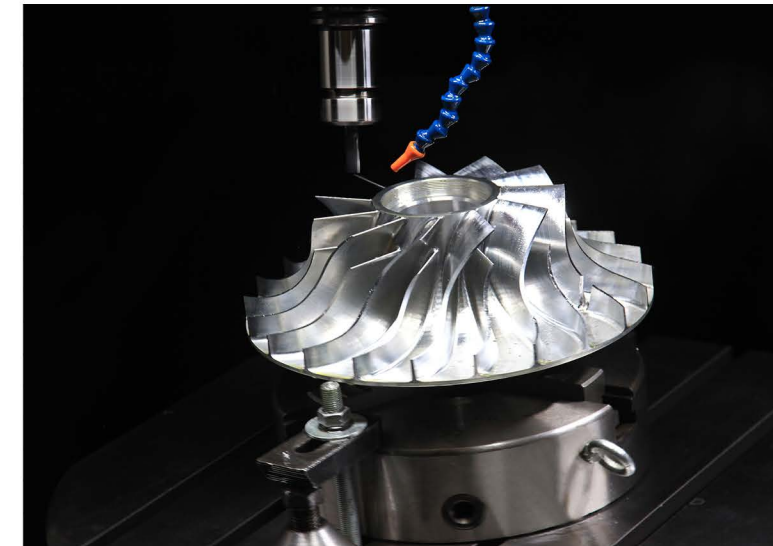
- CNC Machining & Grinding
- Casting
- Forging
- Extrusion
- Gear Manufacturing
- Cold Forming
- Vulcanization
- Fabrication
- Heat Treatment
- Roll Forming
- Coating, and more

Working with the best suppliers in Turkey, Menatek tenders Turkey's complete Manufacturing Capability

To its customers through it's unique supply system The HUB, in order to deliver Turn-Key Projects.

Gathering extensive capabilities of more than 580 manufacturers under one roof, we deliver **single liaison** service for production and testing of even the most complex items.

Our past experience with a diverse range of components supports our engineering team's experience expandable to diversified vehicle platforms at any time.



QUALITY MATTERS



Menatek's Quality Management is in Compliance with ISO 9001 and AS 9100 Quality Management Systems

Menatek acknowledges 'Quality and Confidentiality' as the most critical matter of its services. In order to maintain its quality, Menatek also certifies its suppliers in its self after approving their quality, performance and persistence.

The Hub System works through its suppliers and finalizes at Menatek's quality control check. In order to maintain our product quality, the in-house final check is not the only precaution we take towards our core values. We certificate **(The HUB Certificate)** and classify our suppliers according to their scoring on; quality, delivery & response timing, performance, pricing, development and sustainability. Following with the half years auditing cycle, we ensure to stay up to date with our suppliers' major statuses and reevaluate their classification level systematically.

Please beware of the fact that; not every supplier in our database is a Menatek **"Approved Supplier."** In order to become a certified approved supplier, a pilot project is a mandatory field of evaluation for our quality standards.



WHAT WE DO

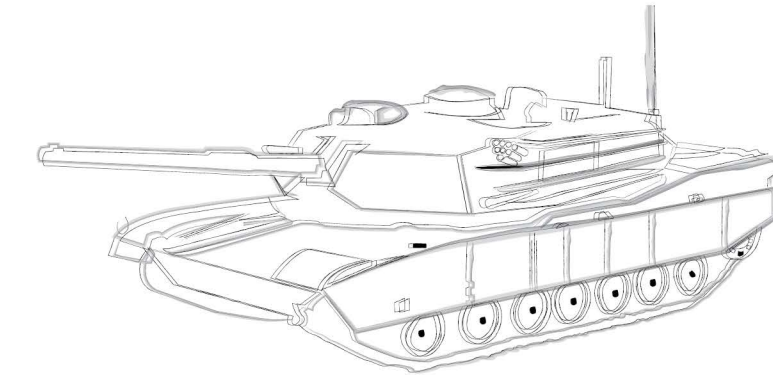
- Database of over 32,000 parts
- Over 4,000 Delivered Contracts
- Largest Supply Chain Network of Turkey & MENA Region

Menatek Services:

- Supply Chain Management
- Engineering
- Manufacturing
- Project Management
- Product Development
- Test Unit Design & Testing

We Optimize Your Procurement

Menatek Defense Technologies is a Hi-Tech Manufacturer of Systems and Components for Military Vehicle Platforms



Utilizing 40 years of specialized know-how on heavy to light military vehicles, all types of tactical & combat platforms, and its wide range of strategic suppliers; Menatek provides a comprehensive easy to do business with, manufacturing, testing and supplying environment for its customers. Gathering extensive capabilities of more than 580 manufacturers under one roof, **we deliver The HUB system as a one-stop service for the production and testing of even the most complex items.**

Expertise:

- Suspension System
- Running Gear System
- Brake System
- Hull, Turret & Chassis
- Powertrain
- Heating – Cooling System
- Lubrication & Circulation Systems
- Optronics



Operations:

• Government Contracting

- US Government, Turkish Government, NSPA

• Off-Set Partnering

- Orientation of the foreign Customer's local production obligations

• Direct Orders

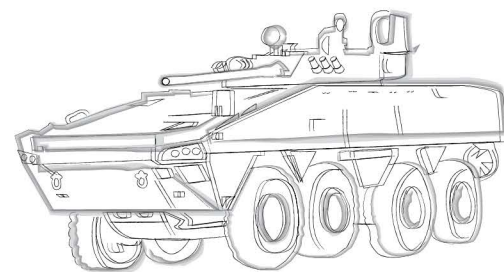
- Vehicle Manufacturers & OEMs

ENGINEERING SOLUTIONS & TESTING



Menatek's Engineering Team consists of highly skilled Mechanical, Mechatronics and Manufacturing Engineers. We provide **raw material, product development, manufacturing and testing solutions** to assist our customers optimizing the Product Realization. Our Engineering Team prepares **Process Flow Charts and 3D**

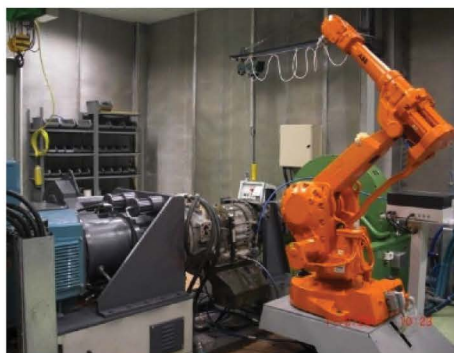
Animations for our customers to demonstrate the optimal way of manufacturing their products. According to the operating conditions, performance requirements and life cycle of the product, **Menatek also supports its customers developing diversified test units for product verification.**



Menatek designs, manufactures and installs Test Units for **Performance and Life Cycle Tests** of components and systems. According to customers' demand, the units can be either used by Menatek to verify the performance of products to be delivered to the customer or they

can be installed to customers' facilities to serve testing multiple products of same function.

Through requirements these test units can be designed as universal units where the customer can test various types and versions of the same group of item.



CAPABILITIES



CNC Machining & Grinding

Small & Medium Size

Horizontal and Vertical CNC Lathe	: Ø600mm X 1200mm
Horizontal and Vertical CNC Milling	: 2500mm X 700mm X 700mm
CNC Cylindrical Grinding	: Ø320mm - 800mm
CNC Surface Grinding	: 1200mm - 600mm
EDM	: 800mm x 450mm

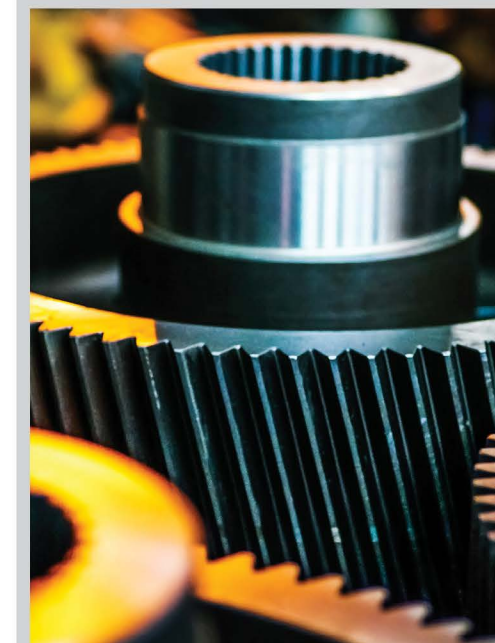
Large Size

Horizontal and Vertical CNC Lathe	: Ø600mm X 3000mm
Horizontal and Vertical CNC Milling	: 17.000mm X 7.500mm X 6.250mm



Casting

Sand Casting	: 1kg-20.000kg / Piece
Shell - Mold Casting	: 1kg-10.000kg / Piece
Investment & Lost Foam Casting	: 0,001kg-50kg / Piece
Vacuum Casting	
(Equipped Turbine Blade Casting)	: 1gr-25kg / Piece
Aluminum Casting	: 0,5kg-500kg / Piece
Die Casting	: 22gr-4500gr / Piece
Gravity Die Casting	: 0,5kg-150kg / Piece



Gear Manufacturing

Hobbing	: 1 - 30 Module Ø1200mm
Form Milling	: Ø170mm - 500mm
Spiral Bevel Gear	: 2-20 Module - Ø 800mm

Forging

Die Forging	: 0,5kg - 400kg / Piece
Aluminum Forging	: 0,1kg - 30kg / Piece
Ring Roll Forging	: Up to Ø8000mm
Upset Forging	: Up to Ø200mm

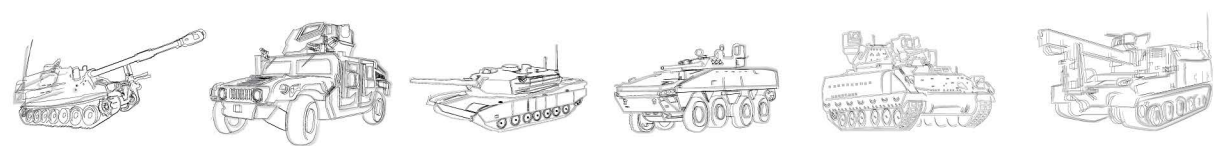


Cold Forming

Draw Forming	: 4-90 mm Thickness
Flow Forming	: 0,5-3 mm Thickness
	: Ø 600 mm
Aluminium Extrusion	: 50gr - 75kg / m
	: 600 mm Width
	: Ø 450 mm Diameter
	: 0-26000 mm Length

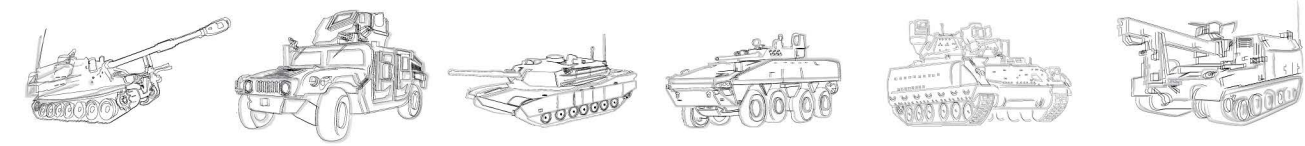
RUNNING GEAR

- Final Drive Assembly
- Idler Arm • Track Tensioner
- Road Wheel • Sprocket Wheel
- Track Shoe • Track Pad



SUSPENSION SYSTEM

- Complete Wheel Station
- Linear Damper
- Rotary Damper
- Suspension Housing
- Hub
- Torsion Bar



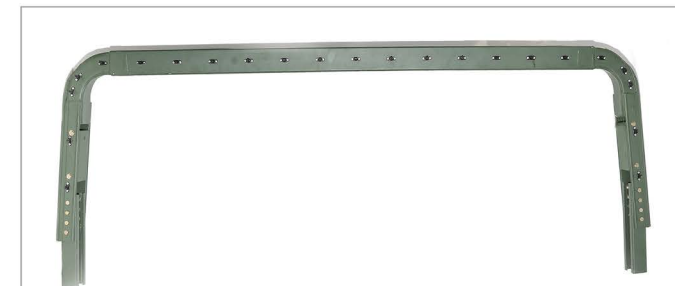
BRAKE SYSTEM

- Hydraulic Brake System
- Accumulator • Actuator
- Brake Ring • Hydraulic Power Pack



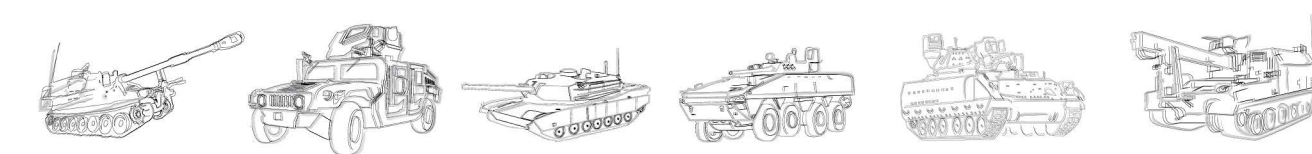
HULL, TURRET & CHASSIS

- Control Arm
- Roll Bar
- Structural Frame
- Steering Box
- Wheel
- Linear Damper
- Periscope
- Drag Link
- Tie Rod
- Steering Knuckle



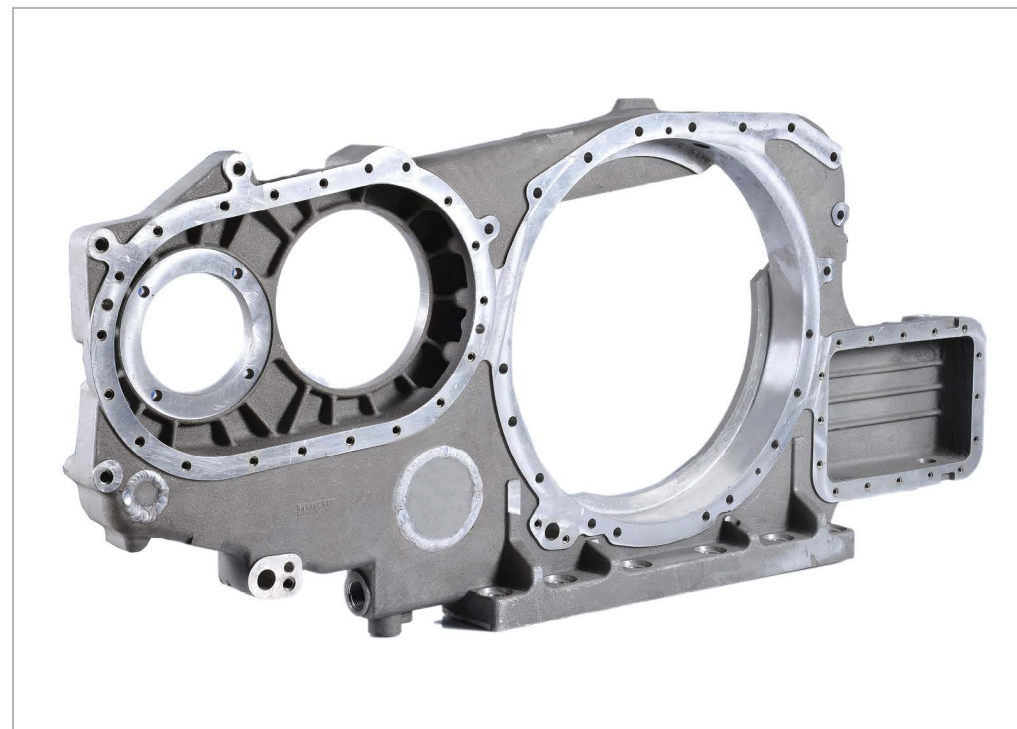
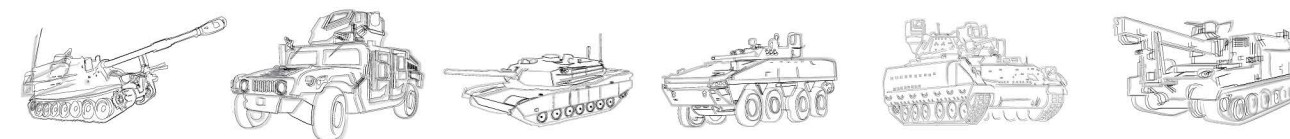
HEATING-COOLING SYSTEM

- Engine & Transmission
- NBC Heater



POWERTRAIN

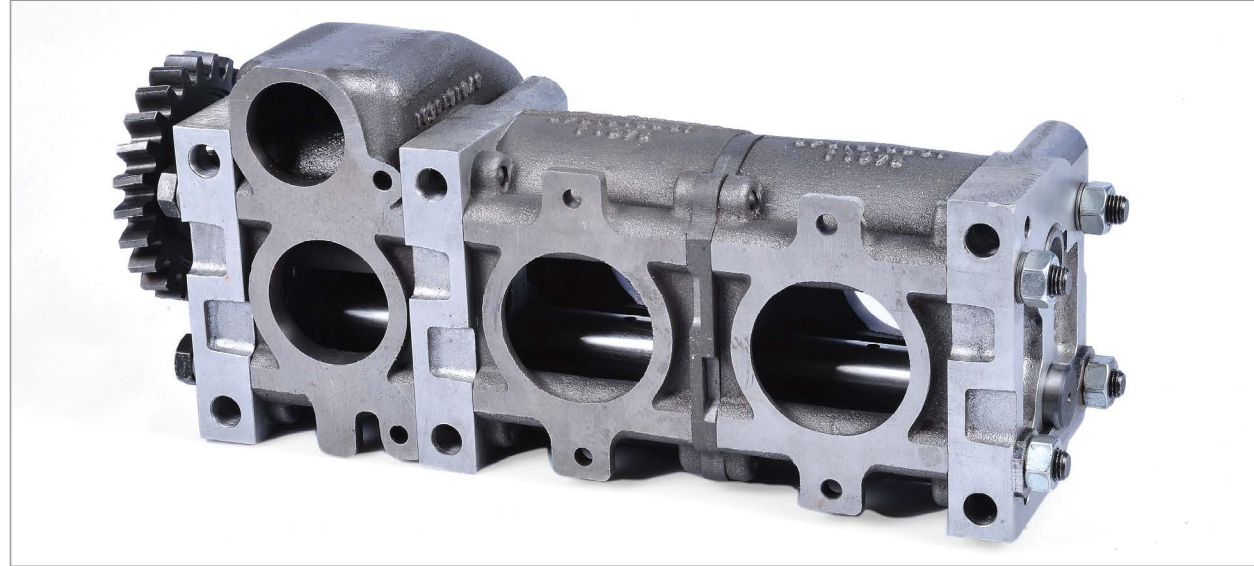
- Final Drive Assembly
 - Transfer Box
 - Power Take-Off
- Differential Steering Control Box
 - Universal Joint
- Transmission Cover / Housing
 - Planetary Gears
- Miscellaneous Engine Parts



LUBRICATION & CIRCULATION SYSTEMS



- Engine & Transmission Oil Pumps



Contact us to Optimize your Procurement.

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“GATHER TO DEVELOP”



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