

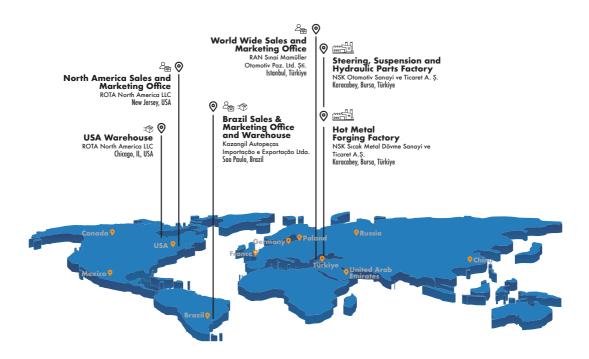






We have two factories located in Bursa (Türkiye), as well as sales and marketing offices in Istanbul (Türkiye), New Jersey (USA), and warehouses in São Paulo (Brazil) and Chicago (USA).

We Are Everywhere



Our Locations

• The locations we go to fairs

AAPEX, Agritechnica, Automec, Automechanika Dubai, Automechanika Frankfurt, Automechanika Istanbul, Automechanika Moscow, Automechanika Shanghai, Bauma, Bauma CTT RUSSIA, IAA, Truck World, Solutrans, Expo Transporte ANPACT, HDAW - Heavy Duty Aftermarket Week



We manufacture 16.000+ references product such as tie rod end, ball joint, centre rod, tie rod (drag link), tie rod assembly, axial joint, hydraulic top link, hydraulic steering cylinder, v stay arm (v-rod), torque rod, repair kit, king pin kit for commercial vehicles, agricultural tractors, construction machines and special vehicles. Also we produce forging and rubber-metal parts for many industries, especially automotive.

We manufacture 16.000+ references product





16.000+ product in range



300+ new product/year



Exporting **100+** countries



250+ customers all around the world



600+ employees



20.500m²+ closed 33.300m²+ total production area



Factories located in Bursa where is the heart of Turkish Automotive Industry Ecosystem, securing continuous improvement



2.400.000+ pcs/ year production capacity



73+ years industry experience



Customized tailor-made solutions with **patented designs**











Exporting 100+ countries







Quality check with actual road data and field tests



In-house Test Center



In-house tooling design and tooling production



Approved Design Center



Global partner of leading **OEM** and **Tier-1 companies**



25+ years OEM experience



4 - 6 week lead time and less logistics cost compared to Far East



Highly dedicated and customer-centric team and management. Our customer relations rated 4.7 out of 5.



Environment-friendly production backed up with ISO 14001 Environmental Management System



Stands behind its products with a warranty policy securing up to 24 months or 150,000 km



Integrated 2 Factories

We produce the products in integrated 2 factories with its molding room, hot metal forging, rubber metal, production and planning, assembly and packaging, R&D, engineering, quality, logistics units.

Steering, Suspension and Hydraulic Parts Factory CLOSED AREA TOTAL AREA 16.000m2 25.200m2

000

Hot Metal Forging

Factory

CLOSED AREA TOTAL AREA 4.500m2 5.300m2

Total Factory Areas

CLOSED AREA TOTAL AREA 20.500m2 33.300m2

Molding Room

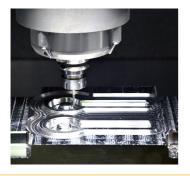
Molds and tools needed for production unit are transferred by method unit to CNC machines via computer-aided design (CAD/CAM) and the process is completed upon the realization of mold-tool production on the benches.

Hot Metal Forging

Hot metal forging factory capacity is 12.000 ton thanks to its friction presses and gravity hammers. Hot metal forging factory manufactures carbon and alloy steel parts in various sizes and shapes, weighing from 0,25 kg up to 20kg.

Rubber - Metal Unit

In our state-of-the-art machines, the surface treatment of metals is done which includes degreasing, sandblasting and adhesive application. Then, the vulcanization process is applied to rubber-metal parts with predefined pressure, temperature and time parameters. This is followed by deburring and marking processes.















Production and Planning

All production operations are designed in accordance with continuous flow principles. Our production carries by qualified production staff. They work with lean manufacturing principles. All of our production operations are planned and controlled via an ERP system.



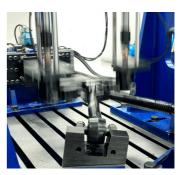
Assembly and Packaging

Packaging and assembly unit operates with the principle of meeting all customer demands. Pallets which are packed with computer-aided packing list software, are loaded on rack system which automatically loads and unloads and then shipped to customers as per their orders.



R&D

R&D activities by closely keeping up with emerging technologies in the production industry. With CAE analyses, field tests, test equipment capable of testing all product lines, we infuse our experience into the products in the most proper manner.



Engineering

Product designs are developed with the support of Solid Works CAD software as a standard. Risk areas are identified with FEA analyses and accordingly products are improved. As a result, parts which ensure highest levels of driving safety are designed with minimum costs.



Quality

We primarily target at keeping customer satisfaction always at higher levels thanks to a feedback mechanism ranging from material acceptance quality control, process control to customers in order to ensure sustainability. We carry out internal process audits with T-card audit systematic; both internal and supplier audits with our VDA-certified auditors.



Logistics

We have the logistics infrastructure which will meet timely delivery expectations of OEM and automotive aftermarket market customers. Produced product are ready-to-ship materials with automatic shelf system. We use road, sea freight and air freight shipment methods according to customer request.





Explore our part solution areas

Our parts offer solution for commercial vehicles, agricultural vehicles, construction vehicles and special vehicles. Also we serve many industries with our forged parts.

Commercial Vehicles

European and American commercial vehicles such as heavy duty truck & trailer, bus, light trucks and vans.



Agricultural Vehicles

Tractors and combine harvester.







Construction Vehicles

Backhoe loaders, wheel excavators, graders, wheel loaders, telehandlers, forklifts.





Special Vehicles

Cranes, fire trucks, military vehicles, municipal vehicles and etc.





Other Industries

Open-die forging parts, closed-die forging parts, machined parts and rubber-metal parts offer solution to many industries.





Wide Product Range

Our products are designed to meet the demands of their specific applications. Manufactured with a strong focus on quality, they ensure a safe and seamless driving experience. Built to perform under the most difficult conditions, they deliver exceptional durability and an extended service life.









Tie Rod (Drag link)

Features PUR dust cover	
Special cap design	
100% torque measurement	<u></u>
Bearing optimisation	
Suitable steel tubing	
Corrosion resistance	:: -7 1
DIN 960 bolt	1
Patented C type adapter	
Precision twisting	D

Tie Rod End

Features PUR	
dust cover	
Special cap design	
100% torque measurement	<u>+-</u>
Bearing optimisation	
Corrosion resistance	11 -7 1
Optimized Body Design	•
Ball Stud Induction Application	Ţ

Ball Joint

Features PUR dust cover	
Special cap design	
100% torque measurement	<u>. </u>
Bearing optimisation	7**
Corrosion resistance	9- 7 1
Ball Stud Induction Application	8















Knifehead Rod

PUR dust cover	
Special cap design	
100% torque measurement	-
Bearing optimisation	
Corrosion resistance	:- ▼ 4

Outer Tie Rod End

PUR dust cover	
Special cap design	
100% torque measurement	
Bearing optimisation	
Corrosion resistance)- V 1

Steering Cylinder Rod









Tie Rod Assembly

Features	
PUR	
dust cover	
Special cap	
design	
100% torque	
measurement	
Bearing	
optimisation	
Suitable	
steel tubing	
Corrosion	
resistance	11- 7 1
DIN	
960 bolt	1
Patented	All h
teflon bearing	(†)

Inner Tie Rod End

Features	
PUR	
dust cover	
Special cap	
design	
100% torque	
measurement	
Bearing	
optimisation	
Corrosion	. w
resistance	∋ - Ť <u>a</u>
Optimized	0
Body Design	T
Ball Stud Induction	-
Application	

Axial Joint

Features PUR dust cover	
100% torque measurement	-
Corrosion resistance)- 7 1
Patented teflon bearing	(f)
Ball Stud Induction Application	Ī









Hydraulic Steering Cylinder Hydraulic Top Link

Features PUR	
dust cover	
100% torque measurement	
Bearing optimisation	717
Corrosion resistance	:- 7 1
100% dimensional control	<u>1</u>
100% leakage test according to ISO 4406 CE 18/15/12 standard	·*•@(
Nas 9 level pre-assembly sterilization	T *
Pipe in EN 10305-1 + c H8 standards	

Features	
Hook design	4
Corrosion resistance	∋ .7 1
100% dimensional control	<u>i</u> ↔i
100% leakage test according to ISO 4406 CE 18/15/12 standard	,,,≪
Nas 9 level pre-assembly sterilization	T **
Pipe in EN 10305-1 + c H8 standards	0

Rod / Strut, Stabiliser

Features	
PUR dust cover	
Special cap design	
100% torque measurement	-
Bearing optimisation	7**
Suitable steel tubing	-
Corrosion resistance	;- ₹ 1
Ball Stud Induction Application	Į.







V Stay Arm (V-Rod)

Features	
Corrosion resistance) - 7 1
Patented teflon bearing	6
100% angular control	D
Flange mounting with special design press	Va
Production in OEM standart	900
Patented snap ring lock	0

Torque Rod

Corrosion resistance) 7 1
100% angular control	
Production in OEM standart	%
Patented snap ring lock	

Repair Kit, Torque & V Rod

Features Corrosion resistance	9 -7 1
Production in OEM standart	%
Patented snap ring lock	0







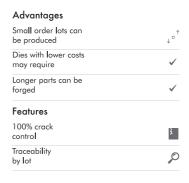


King Pin Kit

Features	
Pins from carbon steel and alloy steel such as C45, C50 En8d, SAE 8620, 20 MnCr5	0
Hardening by heat treatment	
Easy assembly	×
High quality bushings and bearings	0
Long product life	(

Three Point Linkage System Open-die Forging Parts

Features	
Optimized hook design	
Corrosion resistance	;: - ₹
Dimensional control	<u> </u>
Leekage test	.,•≪
Sterilization	Ţ
High qua l ity tube	0
Product life test	<u></u>
Special welding process	f*
Lower lift arm hook design	









Close-die Forging Parts

Advantages	
Forging strength is higher and fatigue resistance is stronger	~
Forged parts have better compactness	~
Internal and surface defects are at minimum level	~
Suitable for mass production of high-volume and high-efficiency products	~
Product quality does not change significantly	~
Features	
100% crack control	ž
Traceability by lot	2

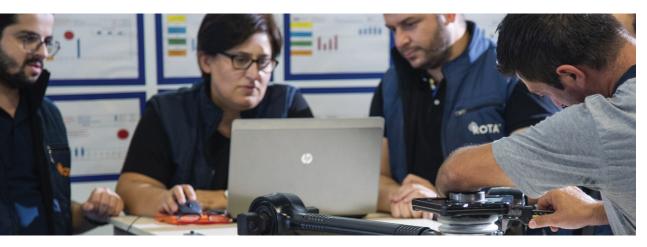
Machined Forging Parts

Solutions for forging and machining in one place	✓
Turning, milling, drilling, cutting, boring etc.	
Features	
100% crack control	ž
Traceability by lot	٥

Rubber Metal Parts

Advantages In house surface treatments including degreasing, sandblasting and bonding applications Compliant with the EU fire protection standard EN45545 **Features** Traceability 0 by lot





Our guide always international standards

We hold important quality management system certifications and add value to our products through environmentally friendly production practices. We also conduct throught product tests, including both static and dynamic analyses, within its own production facilities.

Quality Management Systems and Certifications

We are holding; IATF 16949:2016, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 15613:2005, EAC and INMETRO certificates. In addition our company TecDoc Certified Data Supplier with ROTA brand.

We also add value to products with our technology, an innovative approach and environment friendly production understanding.

Comprehensive **Product Test**

We analyze products with static and dynamic tests. Some of test we apply to the product in our own production facilities are as follows.

- ✓ Buckling Test
- ✓ Bending Test
- ✓ Cap Push Out Test
- ✓ Ball Pin Pull Out Test
- ✓ Radial Clearance Test
- ✓ Clamping Test

- Servo Hydraulic, Centre Rod Fatigue Test
- ✓ Tie Rod End Wearing Test
- Servo Hydraulic Molecule (Repair Kit) Fatigue Test
- ✓ Molecule Compression Test













- Servo Hydraulic V Stay Arm Torque Rod Lifetime Test
- ✓ Rubber Adhesion Test
- ✓ Hydraulic Cylinder Leakage Tests
- ✓ Hydraulic Cylinder Life Test



OEM/OESReferences

We are proud of our extensive global and local OEM/OES reference portfolio. We collaborate closely with our partners on co-design projects, further solidifying our commitment to innovation and excellence. With over 25 years of established relationships, we are solid solution partner to our clients.

Commercial Vehicle Manufacturers







Agricultural and Construction Vehicle Manufacturers









System and OEM Part Manufacturers







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