



**MORE THAN 40 YEARS OF EXPERIENCE IN FOUNDRY PRACTICE**



Offering "one stop shop" with in-house casting, machining, heat treatment, coating and sub-assembly operations

*A world class IATF 16949 certified, state of the art foundry and machining plant*

**VISION**

**TO BE THE LEADER IN TURKISH CASTING INDUSTRY**

**MISSION**

**TO BE A CONSTANTLY DEVELOPING COMPANY, MANUFACTURING HIGH VALUE-ADDED PRODUCTS BEYOND CUSTOMER'S EXPECTATIONS**



**100.000**  
tons/year  
Products  
Capacity



**7 Vertical**  
Moulding  
Lines



**350.000 h/year**  
Machining  
Capacity



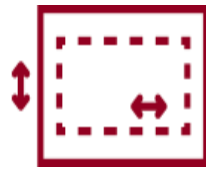
**1200**  
workforce



**30+**  
Countries  
Export to



**+70 M USD**  
Investment in  
Last 5 Years



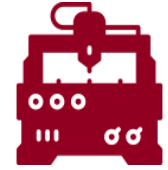
**238.000 m<sup>2</sup>**  
Total Area  
**100.000 m<sup>2</sup>**  
Closed Area



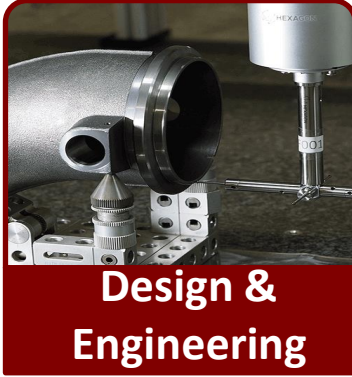
**%35**  
Machined  
Parts Share



**0,1 kg - 40 kg**  
Casting Weight  
Range



**%100**  
In-House  
Pattern  
Production



**From concept through development, production, finishing & delivery, Trakya Döküm is a confident supplier partner for all your cast and machined part requirements.**



**All operations of casting, machining, heat treatment, surface treatment and sub-assembly are carried out within the facility.**





**To have competitive advantage by producing value-added complex parts.**

**To supply a minimum 40% of our production as machined.**

**To become a component supplier by adding assembly operation capability to currently available machining & painting operation capabilities.**

**To act as a development partner for our customers rather than a casting supplier.**

**To grow not only predominantly supplying to automotive sector but also to other various sectors.**

**To increase product, customer base and export country diversity.**



**Continuously obtaining new bussiness to assure production capacity is fully allocated.**

**Focusing on complex parts with high added value (hydraulic, safety critical parts etc.)**

**Following the new trends in casting sector.**



A member of Soyak Holding, which is one of the leading groups in Turkey.

Ranks within the Top 500 Turkish companies.

Turnover realized in 2022 is 165 million EURO. Turnover expected in 2023 is 180 million EURO.

Second largest Cast Iron Foundry in Turkey.

Turkey's first ISO 9002 certified foundry (obtained in 1992).

Among the first companies in its sector in Turkey to obtain ISO/TS 16949, ISO 14001 and OHSAS 18001.

Has been continuously working with automotive companies including Renault, Fiat (Tofaş), Ford, Daimler, Valeo and LuK.





**Regarding ourselves as a “Development Partner”, rather than a supplier.**

**Branch office in Germany for better service to our customers.**

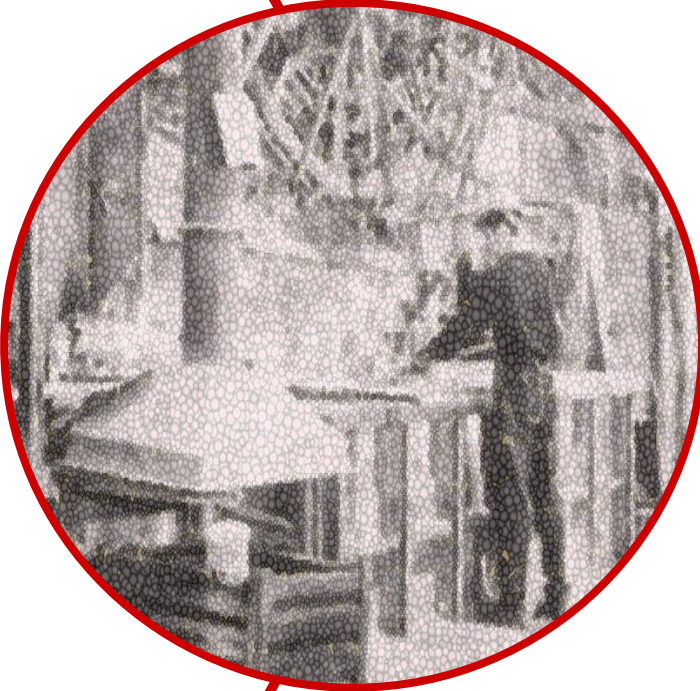
**Geographic closeness to the Europe.**

**Workforce with the best European mentality and working practices.**

**Environmentally responsible.**

**Technological ability and experience to give excellent engineering support in all stages of design, prototype & serial production.**

**Continuous improvement in production efficiency, quality and product machinability through which cost savings are offered to our customers.**



- 1977 Foundation of the Company
- 1980 Start of the Construction of the Foundry
- 1982 Start of the Serial Production
- 1991 Extension and Synchronization of Production Line 2
- 1992 Start of Export
- 1997 Start of the Serial Production on Production Line 3
- 2003 Machining Shop Investment
- 2006 Start of the Serial Production on Production Line 4
- 2008 Start of the Serial Production on Production Line 5
- 2010 New Machining Shop and Increasing Machining Capacity
- 2017 Start of the Serial Production on Production Line 6
- 2020 Renewal of Production Line 1
- 2021 Renewal of Production Line 2
- 2022 Renewal of Production Line 3 (continues)
- 2023 Start of the Serial Production on Production Line 7

**We are using proven lean production processes integrated with modern quality management systems.**

**1982-1990 – Traditional Quality Systems**

**1992 – ISO 9002 Certification (TSE)**

**1993 – ISO 9002 Certification (BVQI)**

**2000 – SII-005 Certification (SI)**

**2002 – QS 9000 Certification (BVQI)**

**2002 – ISO 9001:2000 Certification (TSE)**

**2003 – ISO TS 16949 Certification (BVQI)**

**2004 – ISO 14001 Certification (BVQI)**

**2005 – OHSAS 18001 Certification (BVQI)**

**2008 – Q-1 Certification (FORD)**

**2010 – EFQM Perfection Model Self assessment Studies**

**2012 – ISO 10002 Customer Satisfaction System (BVQI)**

**2015 – ISO 9001:2015 Certification (TSE)**

**2016 – ISO 27001 Information Security Management System (SGS)**

**2016 – SA 8000 Social Accountability International Standard (BVQI)**

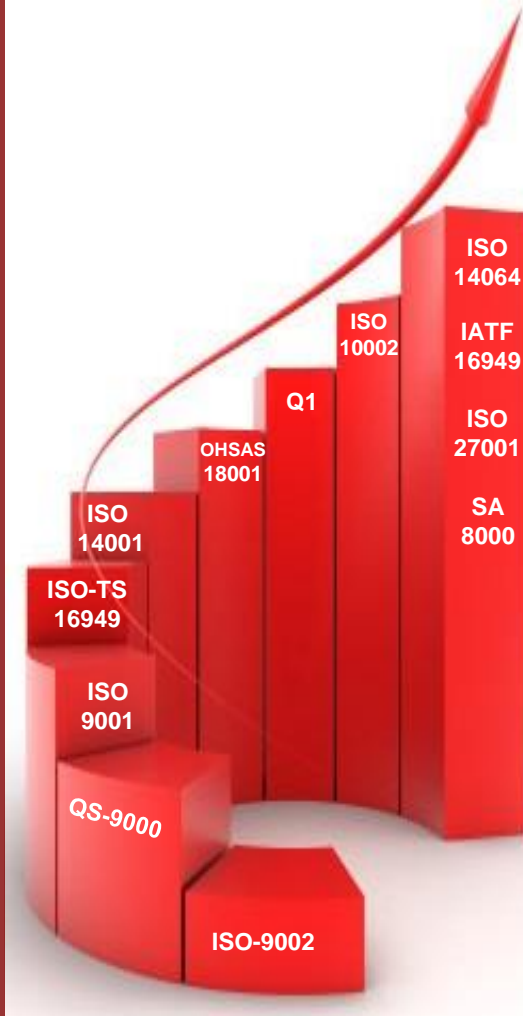
**2018 – IATF 16949 Certification (BVQI)**

**2021 – ISO 14064 The Inventory of Greenhouse Gas Emissions**

**2021 – ISO 45001 Certification (BVQI)**

**2023 – ISO 14067 Product Carbon Footprint (Planned)**

**2023 – ISO 50001 Energy Management System (Planned)**



## *Continuous improvement in environmental sustainability performance is an integral part of our culture.*

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

### *By adopting the Life Cycle model;*

- Fulfill the compliance obligations of interested parties.
- To increase the environmental awareness of Trakya Döküm organization and employees and related parties on behalf of Trakya Döküm.
- To review the risks and opportunities of environmental aspects by considering the life cycle model in product, material, process selection.
- To improve the environmental management system in order to increase environmental performance.
- Being sensitive to the environment while using energy, water and natural resources.
- To prevent pollution by using new and improved appropriate technologies in our production process.
- Our environmental policy is open to all interested parties.



We are acting with the principle of "HUMAN FIRST" at every stage of our processes.

*We have made the following policies the basis of our management.*

- COMPLIANCE WITH LAWS AND OTHER OBLIGATIONS
- PREVENTION OF FORCED AND MANDATORY LABOR
- PREVENTION OF CHILD LABOR
- DISCIPLINE/ABILITY AND PREVENTION OF HARASSMENT
- DETERMINATION OF WORKING HOURS
- FEES AND PAYMENTS
- PREVENTION OF DISCRIMINATION
- PROVIDING OCCUPATIONAL HEALTH AND SAFETY (OHS)
- FREEDOM OF ASSOCIATION AND THE RIGHT TO COLLECTIVE AGREEMENT
- PREVENTION OF ENVIRONMENTAL POLLUTION
- WORKING WITH SUPPLIERS





*Trakya Döküm has embraced Six Sigma as a core value of its culture since 2007.*

**Trakya Döküm currently has;**

- 2 master black,
- 7 black belt,
- 13 green belt project leaders.
- 108 projects have been realized.
- Total savings achieved is 10,1 million EURO



**CAPACITY 2023** : 100.000 Tons/Year (3 Shifts & 294 Days)

**PRODUCTION 2022** : 73.000 Tons/Year (3 Shifts & 293 Days)

**SALES 2022** : 72.150 Tons/Year

**TOTAL EMPLOYEES** : 1166

**TOTAL AREA** : 238.000 m<sup>2</sup>

**CLOSED AREA** : 100.000 m<sup>2</sup>

## **PRODUCTION LINES**

7 Vertical Moulding Lines (3 x 2013A, 2 x 230X, 1 x D3 Z555, 1 x 270A)

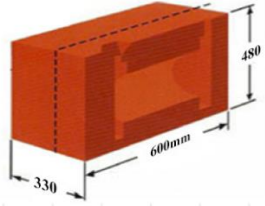
6 Melting Shops (Electrical) (50 Tons/hour)

7 Auto-pour furnaces (Heated versions)

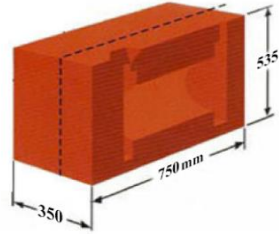
28 Core machines (5 Cold Box, 11 hot Box & 12 Shell)



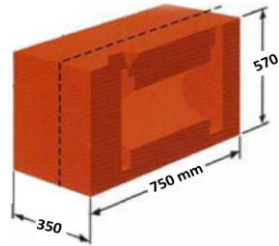
DEPARTMENTS	WHITE COLLAR	BLUE COLLAR	TOTAL	ENGINEER
MANAGEMENT	19		19	18
PLANT MANAGER	3		3	3
MANUFACTURING	15	360	375	7
PRODUCTION	13	400	413	7
QUALITY	8	67	75	5
ENGINEERING	8	41	49	2
LOGISTIC	15	72	87	2
PURCHASING	8	9	17	1
MARKETING	7		7	4
ACCOUNTING	8		8	
MAINTENANCE	18	69	87	7
HUMAN RESOURCES	4	12	16	1
MANAGEMENT SYSTEMS	1	1	2	1
INFORMATION TECHNOLOGY	8		8	3
<b>TOTAL</b>	<b>135</b>	<b>1031</b>	<b>1166</b>	<b>61</b>



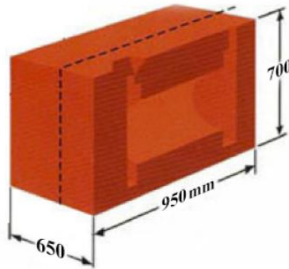
2013 A



230 X



D3 555



270 A

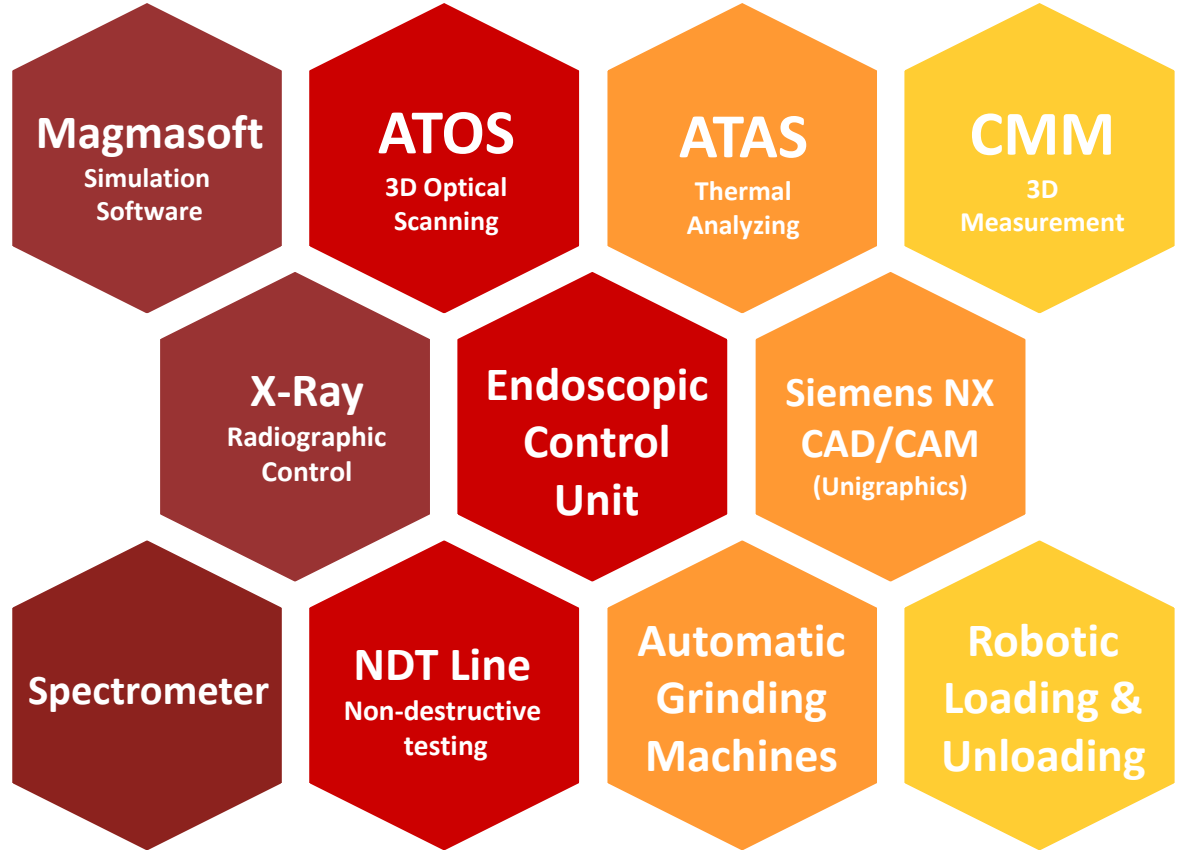
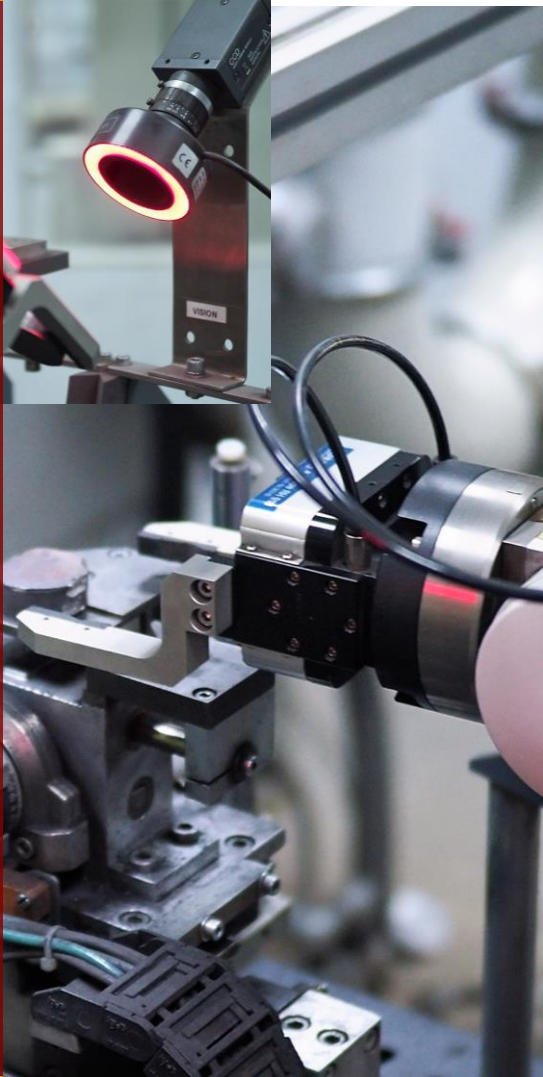
## CASTING WEIGHT RANGE & DIMENSIONS

*Casting weight range: 0,1 kg - 40 kg*

Disamatic Machine Type	Moulding Size
2013 MK 5A	480 x 600 mm
230 X	535 x 750 mm
D3 Z555	570 x 750 mm
270 A	700 x 950 mm

## CASTING GRADES

- Ductile Iron (DIN EN 1563)
- Grey Iron (DIN EN 1561)
- Malleable iron (DIN EN 1562)
- CGI (Compacted Graphite Iron)
- High Si, SiMo Ductile Iron
- Other grades as required in conjunction with customers





***100% in house tool production by using:***

*Magmasoft simulation program*



*Siemens NX (Unigraphics) CAD/CAM*

*4 CNC milling machines (one with 5 axis)*



*Universal turning & milling machines*

*Auxiliary equipments*



***Thanks to its multidisciplinary team approach and advanced technology, new products can be integrated into serial production quickly and reliably.***

Utilization of the best technology available

Involvement in product development during early stages

Offering customers our experience and expertise during the design process

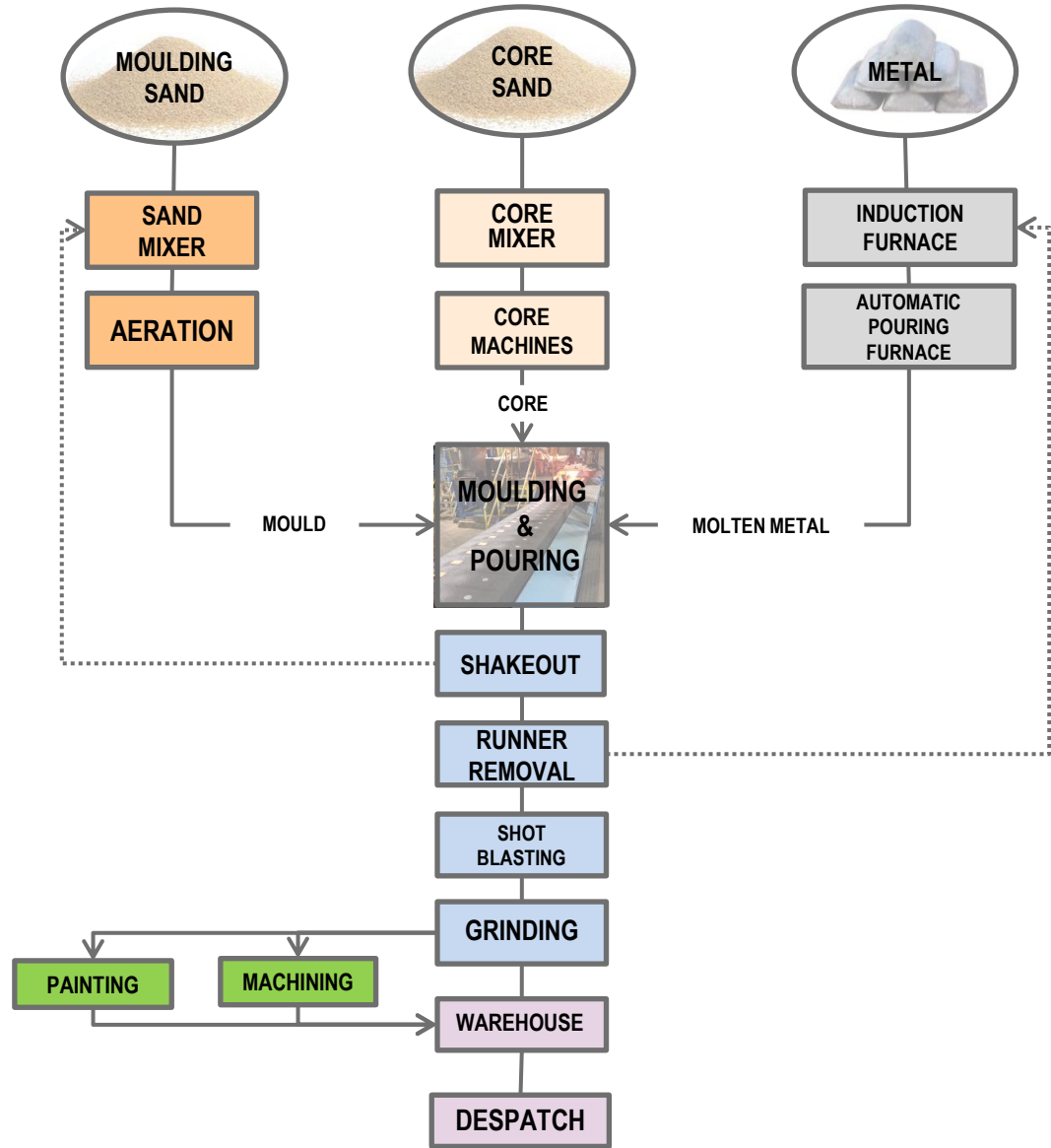
Continuous improvement activities following product implementation

Skilled engineers to interpret data and skillfully use the best available technology





# SIMPLE PRODUCTION FLOW





Currently there are 58 various machining centers & turning machines, as well as 7 various broaching, honing, marking, washing and balancing machines.

Trakya Döküm built a new machine shop and bought additional machining centers to increase its share of machined parts supplied.

Annual total machining capacity is 350.000 hours.

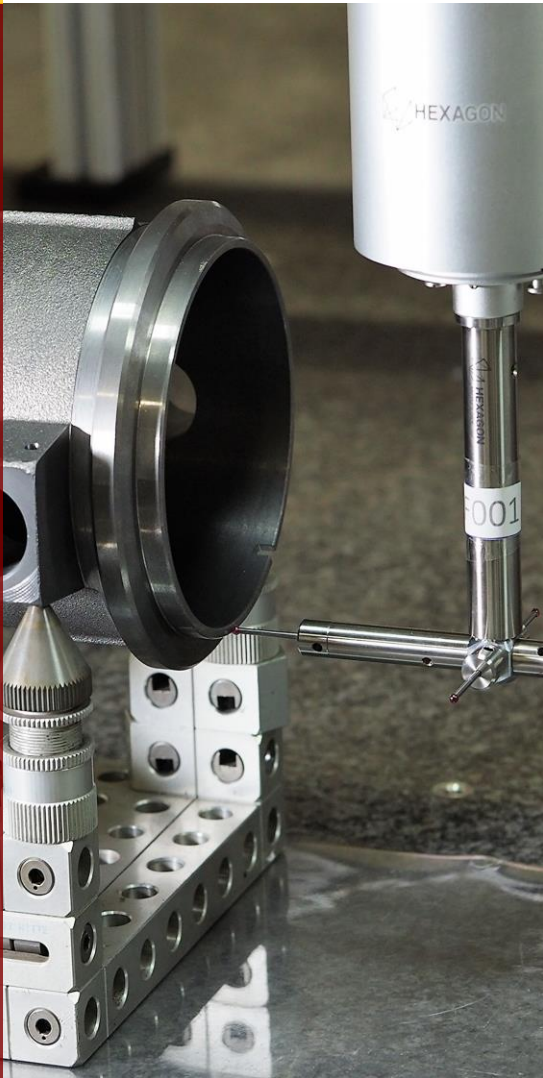
Eager to invest in special purpose machining centers on a project basis.



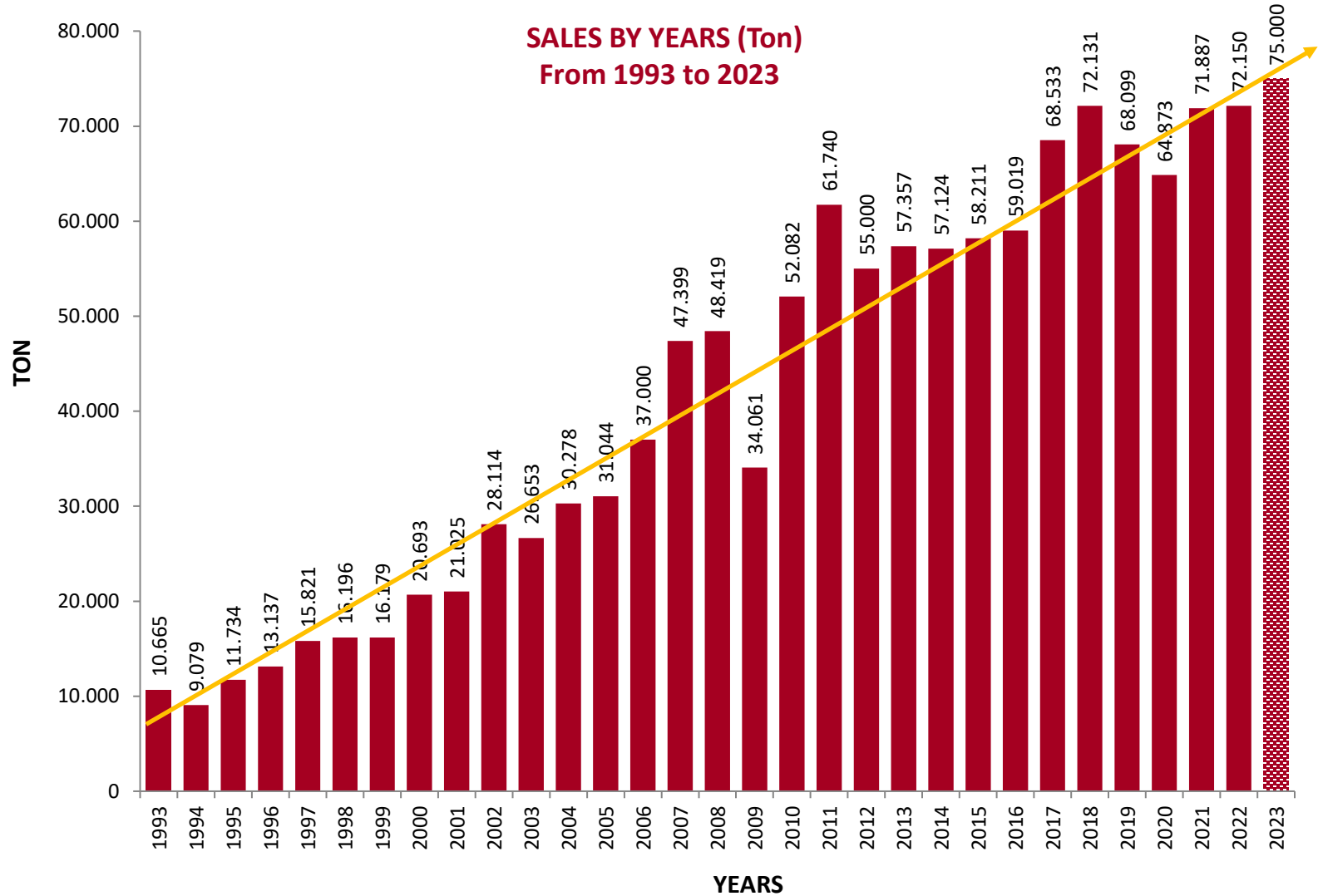
<i>Machine Type</i>	<i>Orientation</i>	<i>Number of Axis</i>	<i>Quantity</i>
Machining Center	<i>Horizontal</i>	<b>4</b>	<b>19</b>
Machining Center	<i>Horizontal</i>	<b>5</b>	<b>7</b>
Machining Center	<i>Vertical</i>	<b>4</b>	<b>7</b>
Turning Machine	<i>Horizontal</i>		<b>10</b>
Turning Machine	<i>Vertical</i>		<b>15</b>
Broaching Machine	<i>Vertical</i>		<b>2</b>
Honing Machine	<i>Vertical</i>		<b>1</b>
Balancing Machine			<b>4</b>
<b>Total</b>			<b>65</b>



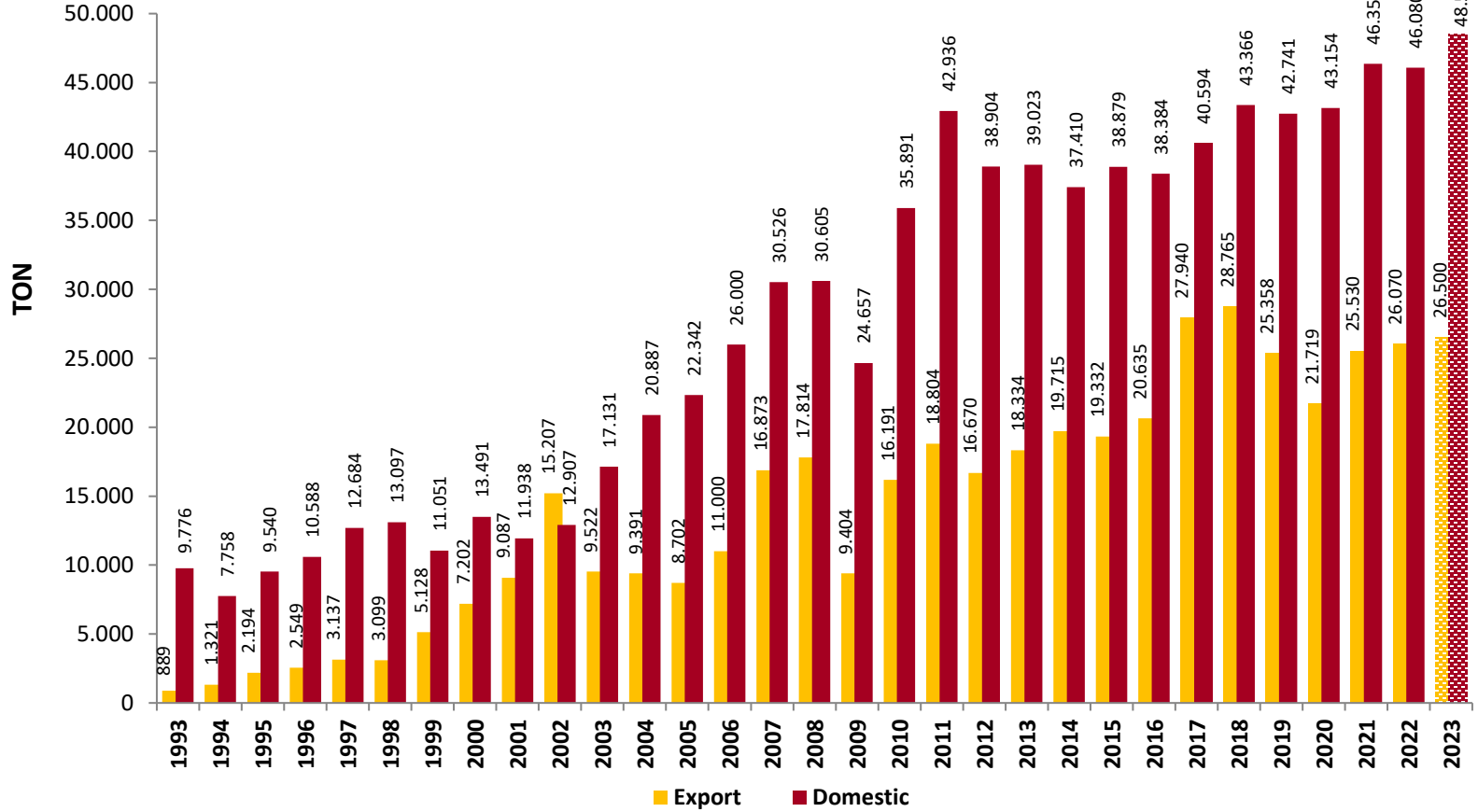
<i>Machine</i>	<i>Machine Type</i>	<i>Quantity</i>
Ball joint assembly machine	<i>Automated robotic assembly</i>	<b>2</b>
Painting machine	<i>Robotic edge painting system</i>	<b>1</b>
Painting machine	<i>Dip painting</i>	<b>1</b>
Painting machine	<i>Robotic wet spray painting</i>	<b>1</b>
Marking machine	<i>Dot marking machine</i>	<b>5</b>
Marking machine	<i>Laser marking machine</i>	<b>1</b>
Washing machine	<i>Pressurized washing machine</i>	<b>3</b>

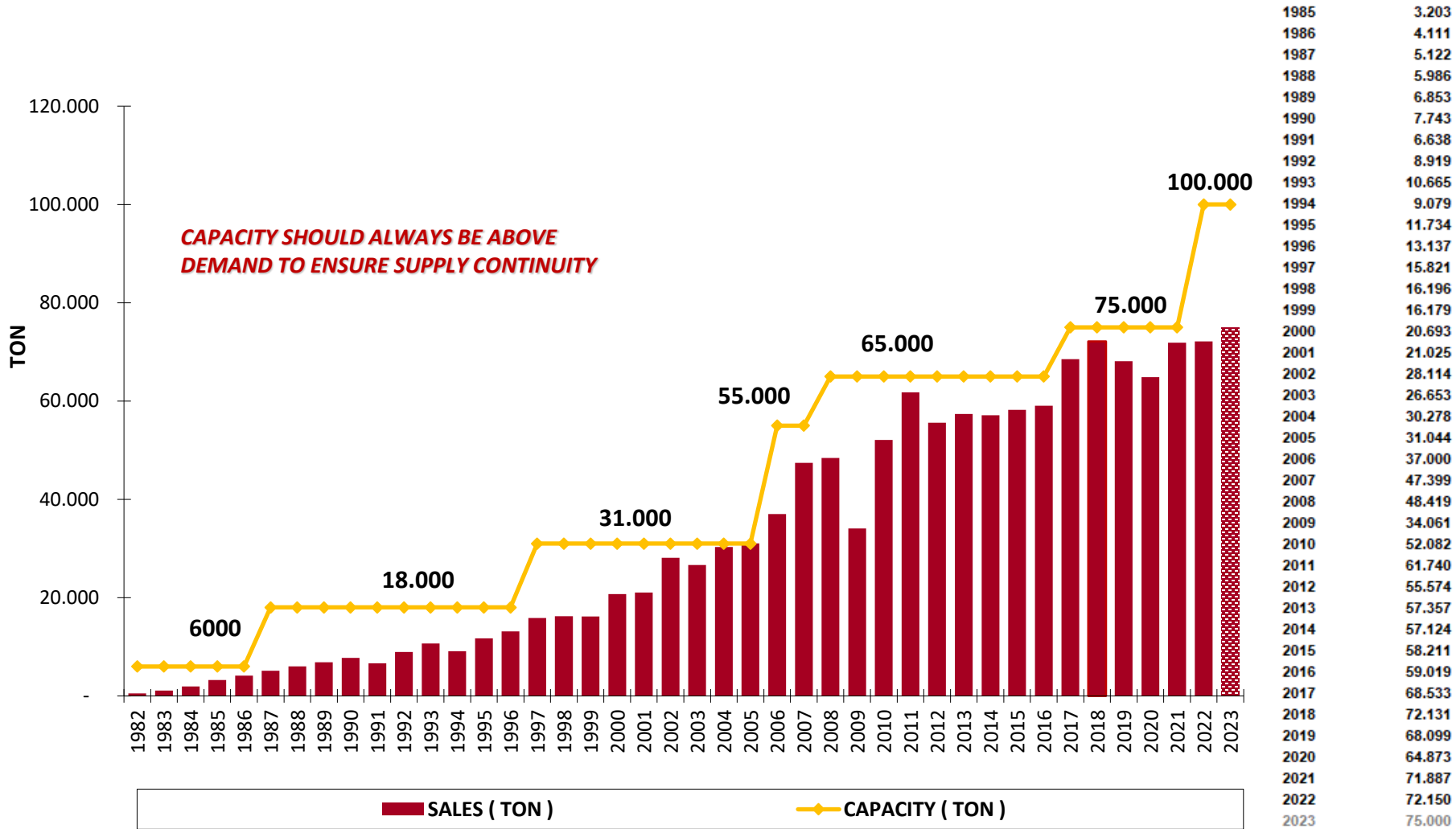


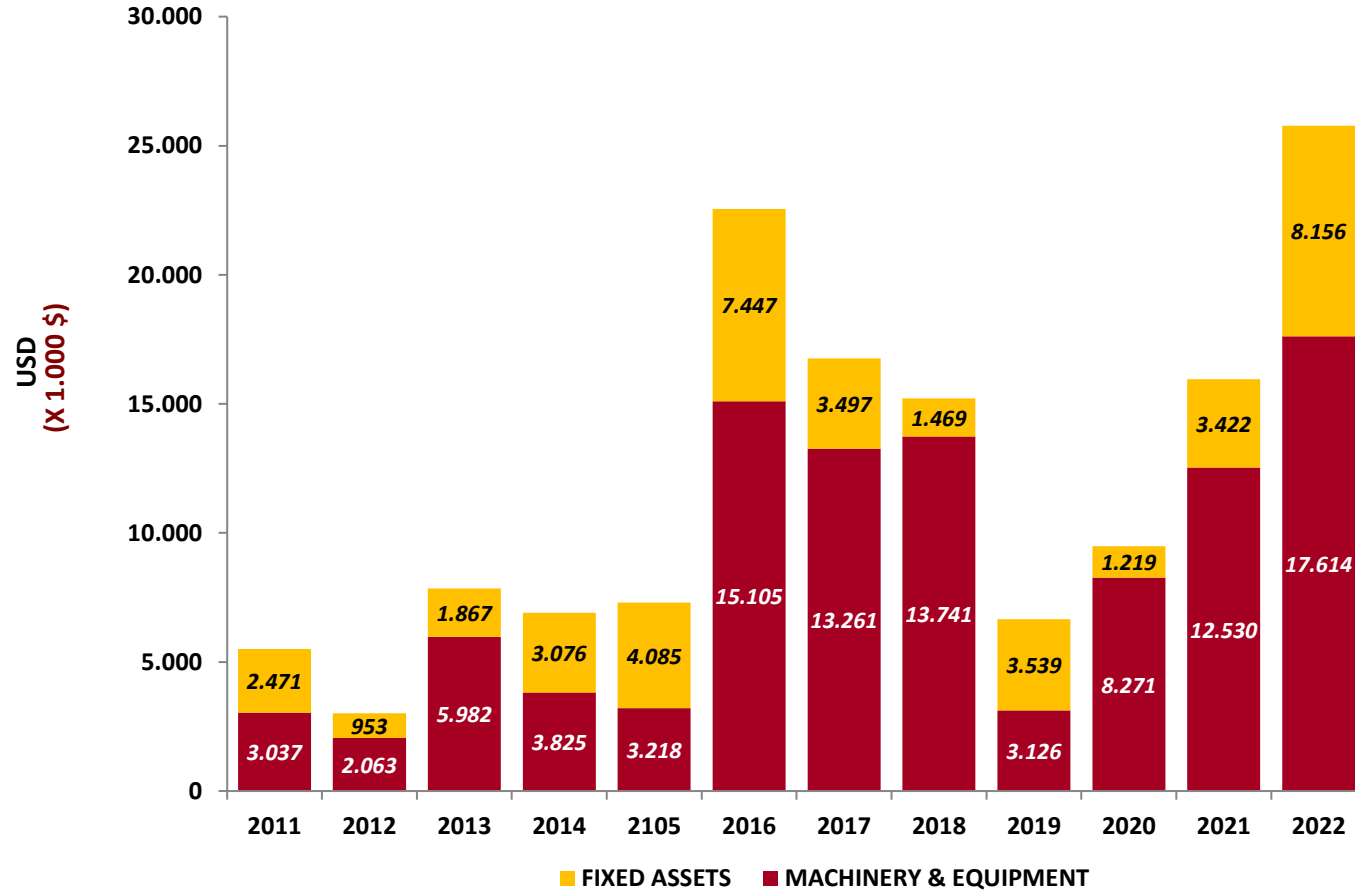
<i>Machine</i>	<i>Machine Type</i>	<i>Quantity</i>
<b>CMM (Zeiss &amp; Hexagon)</b>	<i>Stand-alone measuring</i>	<b>4</b>
<b>CMM (Hexagon)</b>	<i>Portable measuring</i>	<b>2</b>
<b>Blum CNC Measurement</b>	<i>CNC measurement device</i>	<b>1</b>
<b>GOM Inspect ATOS 3D</b>	<i>3D scanning device</i>	<b>1</b>
<b>Siemens FRF Test</b>	<i>Resonant frequency testing</i>	<b>1</b>
<b>Mitutoyo SJ</b>	<i>Surface roughness measurement</i>	<b>3</b>
<b>Mitutoyo Roundtest</b>	<i>Roundness measuring</i>	<b>1</b>
<b>Starrett Profile Projection</b>	<i>Profile projection device</i>	<b>1</b>
<b>Mahr Contour Measuring</b>	<i>Contour measuring device</i>	<b>1</b>



**SALES BY YEARS (Ton)  
From 1993 to 2023**

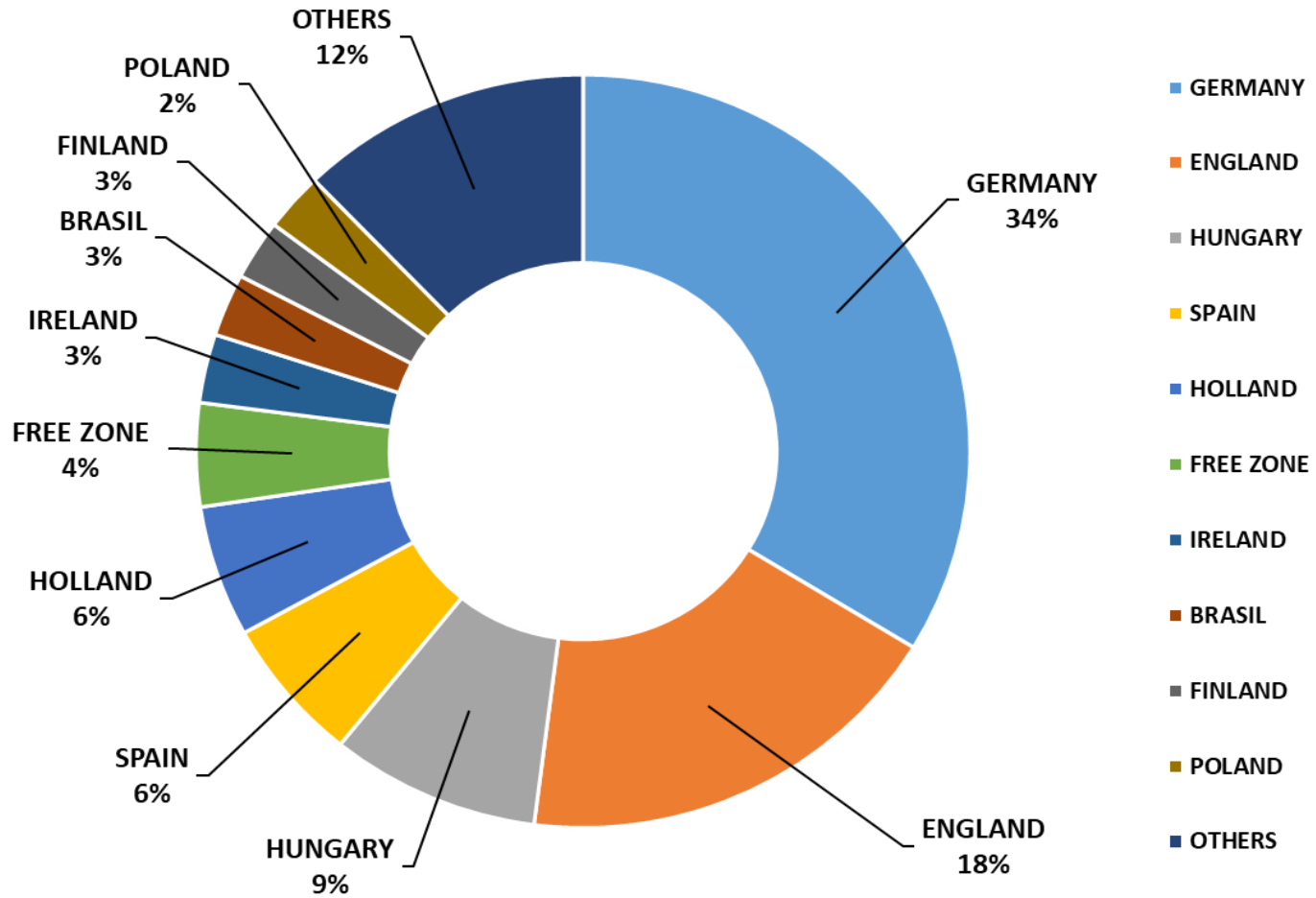




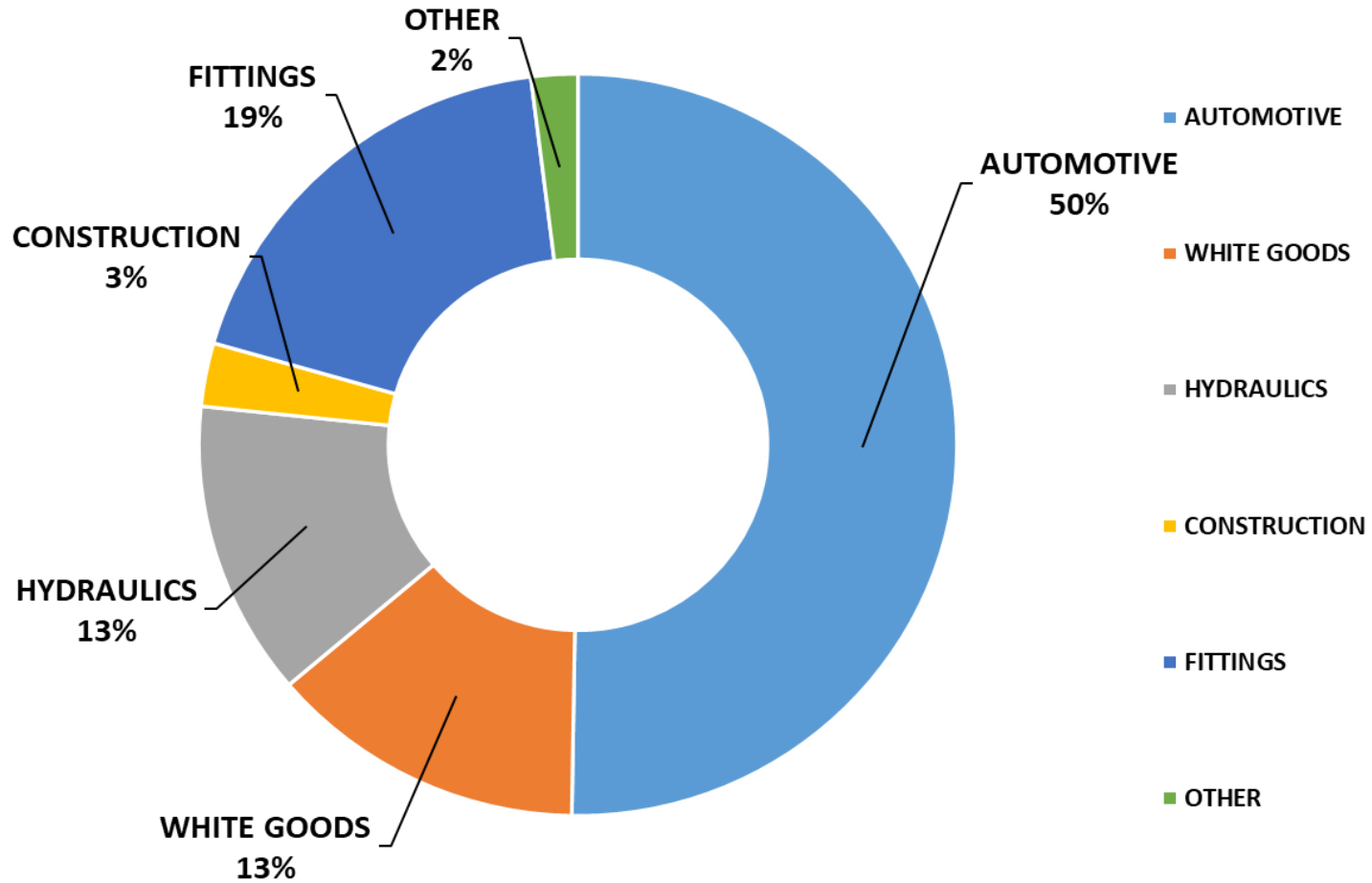


TYPE OF INVESTMENT	2011	2012	2013	2014	2105	2016	2017	2018	2019	2020	2021	2022	TOTAL
FIXED ASSETS	2.471	953	1.867	3.076	4.085	7.447	3.497	1.469	3.539	1.219	3.422	8.156	41.201
MACHINERY & EQUIPMENT	3.037	2.063	5.982	3.825	3.218	15.105	13.261	13.741	3.126	8.271	12.530	17.614	101.773
TOTAL (1.000 \$)	5.508	3.016	7.849	6.901	7.303	22.552	16.758	15.210	6.665	9.491	15.952	25.770	142.974

### 2022 EXPORT SALES BY COUNTRIES (Ton)



### 2022 SALES BY SECTORS (Ton)





**BRAKE CYLINDER**



**TURBO CHARGER BODY**



**TURBO CHARGER BODY**



**BEARING CAP**



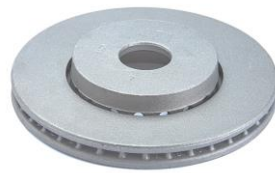
**PRESSURE PLATE**



**STEERING KNUCKLE**



**BRAKE DRUM**



**BRAKE DISK**



**BALANCE SHAFT**



**PUMP BODY**



**STEERING KNUCKLE**



**FLYWHEEL**



**FLYWHEEL**



**PINION FLANGE**



**BRAKE CYLINDER**



**BRAKE DRUM**



**BRAKE BRACKET**



**STEERING KNUCKLE**



**BRAKE DISC**



**STEERING KNUCKLE**



**PRESSURE PLATE**



**BRACKET**



**BRAKE DISC**



**BRAKE CARRIER**



**BEARING CARRIER**



**OIL PUMP BODY**



**TURBO CHARGER BODY**



**BRAKE BACK PLATE**



**FUN BRACKET**



**BRACKET**



**EXHAUST BRAKE BODY**



**EXHAUST BRAKE BODY**



**END YOKE**



**HOUSING ARM**



**V HOUSING**



**BRACKET**



**COMPRESSOR BODY**



**CRANK**



**BEARING HOUSING**



**HOUSING MAIN BEARING**



**SCROLL COMPRESSOR BODY**



**CYLINDER HEAD**



**HOT PLATE**



**SCROLL COMPRESSOR BODY**



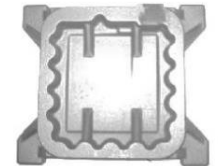
**CRANK**



**COMPRESSOR BODY**



**PUMP HOUSING**



**BASE PLATE**



**MAIN CYLINDER (DOUBLE)**



**AXIAL PUMP BODY**



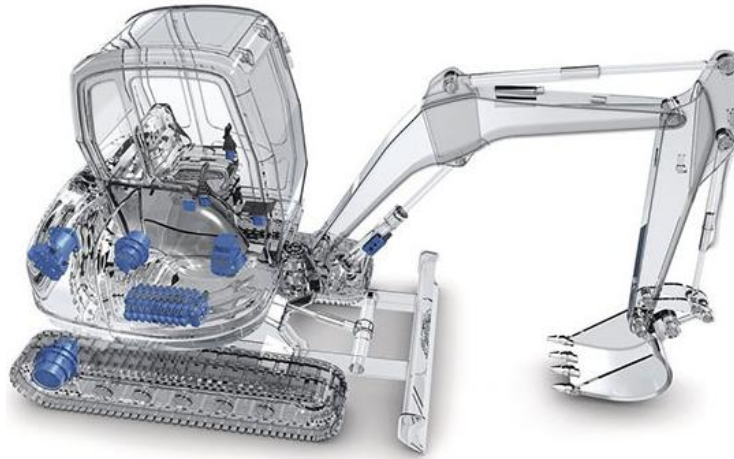
**AXIAL PUMP BODY**



**MAIN CYLINDER (SINGLE)**



**HYDRAULIC COVER**



**HYDRAULIC BODY**



**CONTROL VALF BODY**



**PUMP HOUSING**



**PUMP FLANGE**



**AXIAL PUMP BODY**

**Td FITTINGS**



We manufacture durable and high mechanical properties fittings for manipulating the conveyance of water, gas or liquid within a pipe or tube system.



**SCAFFOLDING & FORMWORK PARTS**



**CLAMP FITTINGS**



**VARIOUS CLAMPING PARTS**



**Delivery performance is a key element in customer satisfaction and is a key performance element.**

**Production planning is important to delivery performance and is given high priority.**

**JIT, KANBAN & ERP (SAP), EDI and other systems are used to ensure the customer receives what he wants – when he wants it – and in the correct quantity and packing.**



B/S/H/



**rexroth**  
A Bosch Company



**TOFAŞ**



**VOITH**



**COPELAND**

**SCHAEFFLER**



**DAIMLER**



**FAG**



**BorgWarner**



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