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High Technology Indicators Year 2019

The turnover of high- and medium-high technology companies grew by 3.9%, to 287,962.1 million euros

Exports of High Technology products increased by 8,5% and imports did so by 5.9%

In 2019, high- and medium-high technology companies achieved a turnover of 287,962.1 million euros, with an increase of 3.9% compared to the previous year. This figure generated a value added of 84,894.7 million.

By sector, turnover of high- and medium-high technology manufacturers grew 3.3%, standing at 197,204.7 million euros.

For their part, companies in the high-tech services sector invoiced 90,757.4 million euros, a 5.1% increase.

Main high-technology indicators. Year 2019

Economic data in millions of euros

NACE 2009	Number of enterprises	Turnover	Annual rate of turnover	Added value
Manufacture sectors of high and medium-high technology	21,156	197,204.7	3.3%	44,550.7
Manufacture sectors of high technology	2,715	31,397.6	12.2%	9,813.6
Manufacture sectors of medium-high technology	18,442	165,807.1	1.8%	34,737.2
High technology services	68,359	90,757.4	5.1%	40,343.9
Total of high and medium-high technology sectors	89,516	287,962.1	3.9%	84,894.7

Source: Structural Business Statistic

Employment in the High-technology sectors

Employment in the high-tech sectors increased by 1.3% in 2019, according to the Economically Active Population Survey (EAPS).

The number of employed persons grew 9.9% in high-tech manufacturing sectors, and 3.4% in high-tech services. On the other hand, it decreased by 2.5% in the medium-high technology manufacturing sectors.

High- and medium-high technology sectors employed 7.1% of the total number of employed persons in the Spanish economy in 2019. 29.0% of the total persons employed in these sectors were women.

Employment in the High-technology sectors Year 2019

Thousands of persons and percentages

NACE 2009	Persons employed	% Women	Annual rate of persons employed
Manufacture sectors of high and medium-high technology	795.1	27.4	-0.2
Manufacture sectors of high technology	167.2	37.7	9.9
Manufacture sectors of medium-high technology	627.9	24.7	-2.5
High technology services	606.3	31.0	3.4
Total of high and medium-high technology sectors	1,401.4	29.0	1.3
Total of persons employed	19,779.3	45.7	2.3

Source: Labour Force Survey (annual average)

R&D personnel in High-technology sectors

Companies in high- and medium-high technology sectors invested a total of 5,842.3 million euros in R&D in 2019, 3.7% more than the previous year.

This figure accounted for 66.8% of the total expenditure of the business sector in R&D activities.

Internal R&D expenditure in high technology sectors Year 2019

Millions of euros and percentages

NACE 2009	Total expenditures	% Expenditures	Annual rate
Manufacture sectors of high and medium-high technology	2,969.0	34.0	3.8
Manufacture sectors of high technology	1,472.5	16.8	4.1
Manufacture sectors of medium-high technology	1,496.5	17.1	3.4
High technology services	2,873.3	32.9	3.5
Total of high and medium-high technology sectors	5,842.3	66.8	3.7
Total enterprises sector	8,740.6	100.0	3.5

Source: Statistics on R&D. Business Enterprise Sector

The number of full-time equivalent (FTE) personnel dedicated to R&D tasks in the high- and medium-high technology sector amounted to 67,414.7, with a 0.4% increase compared to the previous year.

The branches of the High Technology sector concentrated 63.3% of the total FTE personnel dedicated to R&D in the business sector, and 67.3% of researchers.

R&D personnel in high-technology sectors Year 2019

Full-time equivalent employed persons (FTE)

NACE 2009	Total personnel	% Personnel	% Researchers	% variation of personnel
Manufacture sectors of high and medium-high technology	29,746.2	27.9	26.9	-1.0
Manufacture sectors of high technology	11,831.7	11.1	12.8	0.1
Manufacture sectors of medium-high technology	17,914.5	16.8	14.1	-1.7
High technology services	37,668.5	35.4	40.4	1.5
Total of high and medium-high technology sectors	67,414.7	63.3	67.3	0.4
Total enterprises sector	106,435.3	100.0	100.0	1.9

Source: Statistics on R&D. Business Enterprise Sector

Production value of high technology goods

According to the Annual Industrial Products Survey, the production value of high-technology goods increased 7.7% in 2019, reaching 10,424.9 million euros.

Production value of high-tech products by type of product. Year 2019

Millions of euros

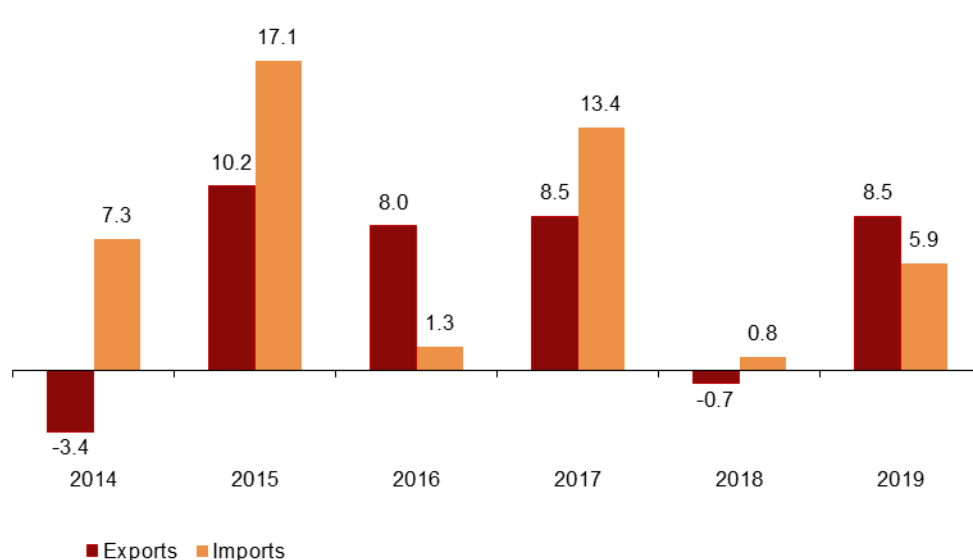
Group of products	2018	2019	% Annual rate
1. Aeronautical and spacial construction	774.9	1,083.2	39.8
2. Office maqinery and computer equipment	139.3	142.3	2.1
3. Electronic material; radio, TV and communications equipment and devi	1,987.9	2,148.1	8.1
4. Pharmaceutical products	2,224.5	2,497.1	12.3
5. Scientific instruments	1,052.0	1,063.6	1.1
6. Maqinery and electrical equipment	438.1	454.6	3.8
7. Chemical products	1,873.3	1,863.2	-0.5
8. Material and mechanical equipment	962.9	925.4	-3.9
9. Weapons and ammunition	225.9	247.3	9.5
Total of high technology products	9,678.9	10,424.9	7.7
Total of industrial production	435,039.8	438,976.7	0.9

Source: Industrial Products Survey

Foreign trade of High Technology products

Exports of high-tech products increased by 8.5% in 2019, reaching 17,456.0 million euros. On the other hand, imports grew by 5.9%, to 31,138.6 million.

Annual variation of high-technology exports and imports. Percentage



Source: Own elaboration based on data from Tax Agency

The highest coverage rate (quotient between exports and imports, in percentage terms) in the foreign trade of high technology products corresponded to the group *Weapons and ammunitions* (277.4%).

In turn, the group *Office machinery and computers* registered the lowest rate (22.9%).

Foreign trade of high-tech products by groups of products. Year 2019

Millions of euros

Group of products	Value of exports	Value of imports	Trade balance	Coverage rate (%)
1. Aeronautical and spacial construction	4,406.3	2,944.8	1,461.5	149.6
2. Office maquinery and computer equipment	1,018.1	4,455.2	-3,437.1	22.9
3. Electronic material; radio, TV and communications equipment and devico	3,055.9	10,590.6	-7,534.7	28.9
4. Pharmaceutical products	3,568.8	5,644.5	-2,075.7	63.2
5. Scientific instruments	1,524.3	3,819.6	-2,295.4	39.9
6. Maquinery and electrical equipment	426.6	904.2	-477.6	47.2
7. Chemical products	1,933.5	1,894.2	39.3	102.1
8. Material and mechanical equipment	1,031.9	708.6	323.3	145.6
9. Weapons and ammunition	490.7	176.9	313.8	277.4
Total of high technology products	17,456.0	31,138.6	-13,682.6	56.1
Total of industrial production	290,892.8	322,436.9	-31,544.1	90.2

Source: Own elaboration based on data from Tax Agency

Data Review and Update

The data published today are final. The results are available at INEBase.

Methodological note

The high-tech indicators are obtained as summary statistics so as to provide data on the sectors and products considered high-tech (industrial or service sectors) according to the methodology criteria proposed by the OECD.

R&D and innovation indicators are given for the activity branches, which include: expenses, personnel, employees, turnover, production value, added value, number of companies, intensity of innovation. For high technology products, production value and exports and imports are also provided.

Type of operation: annual synthesis statistics.

Geographical scope: the entire national territory.

Reference period: q-2 where q is the year of data publication.

Collection method: synthesis of different statistical operations.

For more information you can access the methodology and the standardized methodological report at:

<http://www.ine.es/dynt3/metadatos/es/RespuestaDatos.html?oe=30197>

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