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High Technology Indicators Year 2018

The turnover of high- and medium-high technology companies grew by 4.4% in 2018, to 277,230.9 million euros

Exports of high-tech products decreased 0.7%, while imports increased by 0.8%

In 2018, high- and medium-high technology companies achieved a turnover of 277,230.9 million euros, with an increase of 4.4% compared to the previous year. This figure generated a value added of 80,376.2 million.

By sector, turnover of high- and medium-high technology manufacturers grew 3.8%, standing at 190,901.2 million euros.

For their part, companies in the high-tech services sector invoiced 86,329.8 million euros, a 5.9% increase.

Main high-technology indicators. Year 2018

Economic data in thousands of euros

NACE 2009	Number of enterprises	Turnover	Annual rate of turnover compared to 2017
Manufacture sectors of high and medium-high technology	21,473	190,901,157	3.8%
Manufacture sectors of high technology	2,747	27,988,753	2.1%
Manufacture sectors of medium-high technology	18,726	162,912,404	4.0%
High technology services	66,425	86,329,763	5.9%
Total of high and medium-high technology sectors	87,898	277,230,920	4.4%

Source: Structural Business Statistic

Employment in the High-technology sectors

Employment in the high-tech sectors increased by 1.1% in 2018, according to the Economically Active Population Survey (EAPS).

By sector, the number of employed persons grew by 3.8% in high-tech manufacturing and 2.5% in medium-high technology. In contrast, employment in high-tech services fell by 1.1%.

High- and medium-high technology sectors employed 7.2% of the total number of employed persons in the Spanish economy in 2018. 27.5% of the total persons employed in these sectors were women.

Employment in the High-technology sectors Year 2018

Thousands of persons and percentages

NACE 2009	Persons employed 2018	% Women 2018	Annual rate of persons employed compared to 2017
Manufacture sectors of high and medium-high technology	796.4	26.4	2.7
Manufacture sectors of high technology	152.2	37.5	3.8
Manufacture sectors of medium-high technology	644.2	23.7	2.5
High technology services	586.3	29.1	-1.1
Total of high and medium-high technology sectors	1,382.8	27.5	1.1
Total of persons employed	19,327.7	45.5	2.7

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 5,636.5 million euros in R&D in 2018, 9.7% more than the previous year.

This figure accounted for 66.7% of the total expenditure of the business sector in R&D activities.

Internal R&D expenditure in high technology sectors Year 2018

Millions of euros and percentages

NACE 2009	Total expenditures	% Expenditures	%variation of expenditures compared to 2017
Manufacture sectors of high and medium-high technology	2,861.5	33.9	7.1
Manufacture sectors of high technology	1,414.8	16.8	8.5
Manufacture sectors of medium-high technology	1,446.7	17.1	5.8
High technology services	2,775.0	32.9	12.4
Total of high and medium-high technology sectors	5,636.5	66.7	9.7
Total enterprises sector	8,445.4	100.0	9.3

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 67,157.6, 8.2% more than in the previous year.

The branches of the High Technology sector concentrated 64.3% of the total FTE personnel dedicated to R&D in the business sector, and 68.5% of researchers.

R&D personnel in high-technology sectors Year 2018

Full-time equivalent employed persons (FTE)

NACE 2009	Total personnel	% Personnel	% Researchers	% variation of personnel compared to 2017
Manufacture sectors of high and medium-high technology	30,048.5	28.8	27.6	6.7
Manufacture sectors of high technology	11,820.8	11.3	12.5	5.7
Manufacture sectors of medium-high technology	18,227.8	17.4	15.0	7.4
High technology services	37,109.1	35.5	40.9	9.4
Total of high and medium-high technology sectors	67,157.6	64.3	68.5	8.2
Total enterprises sector	104,474.2	100.0	100.0	9.2

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 4.1% in 2018, reaching 9,678.9 million euros.

Production value of high-tech products by type of product. Year 2018

Millions of euros

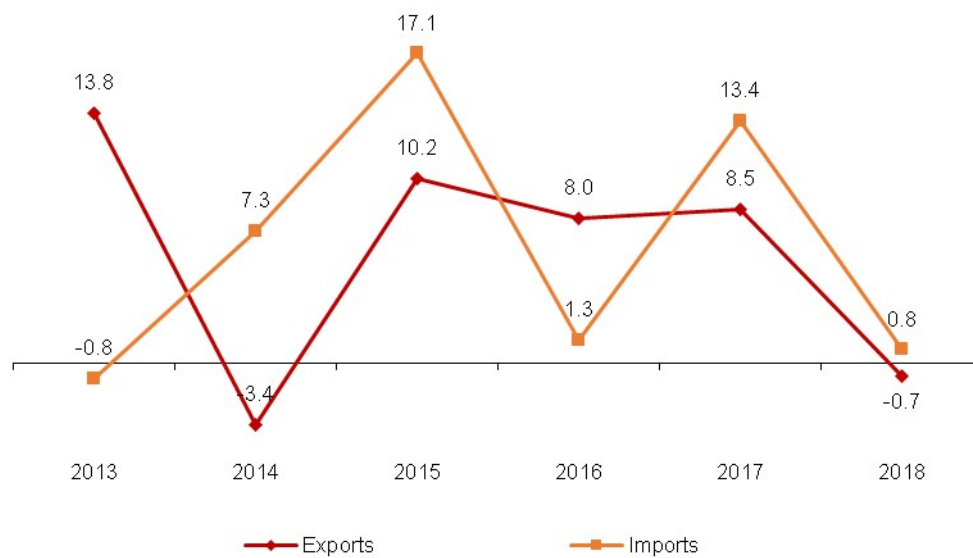
Group of products	2017 year	2018 year	% variation compared to 2017
1. Aeronautical and spacial construction	826.3	774.9	-6.2
2. Office machinery and computer equipment	123.0	139.3	1.2
3. Electronic material; radio, TV and communications equipment and devi	1,817.5	1,987.9	9.4
4. Pharmaceutical products	2,096.9	2,224.5	6.1
5. Scientific instruments	987.7	1,052.0	6.5
6. Machinery and electrical equipment	418.7	438.1	4.6
7. Chemical products	1,880.5	1,873.3	-0.4
8. Material and mechanical equipment	897.2	962.9	7.3
9. Weapons and ammunition	250.6	225.9	-9.9
Total of high technology products	9,298.4	9,678.9	4.1
Total of industrial production	413,372.1	435,039.8	5.2

Source: Industrial Products Survey

Foreign trade of High Technology products

In 2018, high-tech product exports decreased 0.7%, reaching a total of 16,086.2 million euros. On the other hand, imports grew by 0.8%, to 29,405.5 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* (318.3%).

In turn, the group *Office machinery and computers* registered the lowest rate (20.5%).

Foreign trade of high-tech products by groups of products. Year 2018

Millions of euros

Group of products	Value of exports	Value of imports	Trade balance	Coverage rate (%)
1. Aeronautical and spacial construction	3,612.2	2,943.6	668.6	122.7
2. Office maquinery and computer equipment	958.6	4,674.6	-3,716.0	20.5
3. Electronic material; radio, TV and communications equipment and devico	2,617.4	9,609.9	-6,992.5	27.2
4. Pharmaceutical products	3,594.4	5,222.3	-1,627.9	68.8
5. Scientific instruments	1,389.9	3,638.1	-2,248.2	38.2
6. Maquinery and electrical equipment	375.6	862.3	-486.7	43.6
7. Chemical products	1,821.0	1,597.3	223.8	114.0
8. Material and mechanical equipment	1,129.6	672.8	456.9	167.9
9. Weapons and ammunition	587.4	184.6	402.9	318.3
Total of high technology products	16,086.2	29,405.5	-13,319.3	54.7
Total of industrial production	285,260.5	319,647.3	-34,386.8	89.2

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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