



Preliminary

Highlights 2018

**FIDIA**   
Giving shape to design



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## Company profile

FIDIA S.p.A., established in Turin since 1974, designs, manufactures and sells Numerical Controls and Milling Systems for the production of complex shapes mainly for the automotive, aerospace and energy sectors.

With three industrial sites in Italy, one Joint Venture in China and seven Subsidiaries overseas, the FIDIA Group employs approx. 334 people.

The Company is focused on high-quality products and customizable machines being, since its creation, among the world leaders in the field of Numerical Controls for machining of complex surfaces as well as in the one for High-Speed Five Axis Milling Centers. In the last years due to their outstanding performances, the new gantry type machines "GTF" have encountered a considerable success in the global market both in the mould & die and aerospace industries.

A significant percentage of the Group's annual turnover is invested every year in research and development. Certified ISO9001 since 1996, FIDIA S.p.A. is constantly focused on improving the performances, quality and reliability of its products.

Technological excellence, constant innovation, highly skilled human resources and international business presence are the key factors of the FIDIA success over more than 40 years of activity.

# FIDIA



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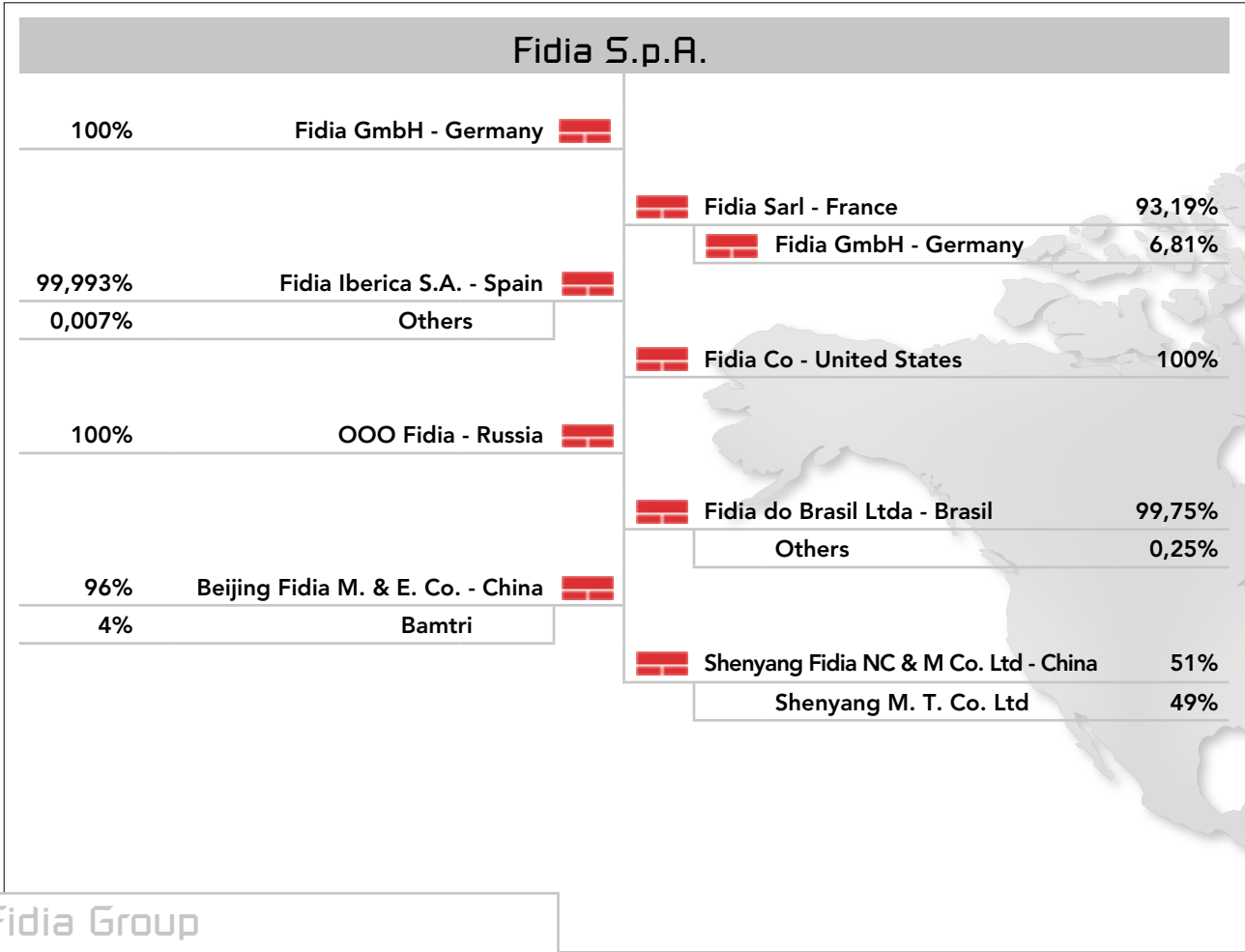
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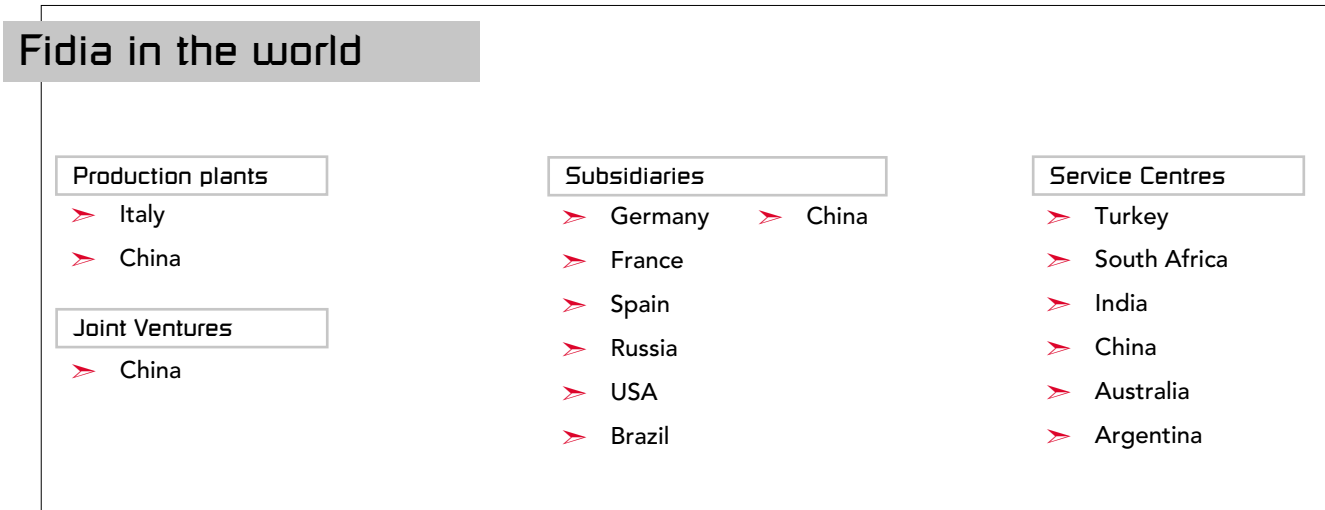
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Member of





**Fidia Group  
organisation**





 Subsidiaries

 Service Center

 Joint Ventures



## Opening event of Fidia Plant in Forlì

Fidia S.p.A. has recently held the opening event for its new manufacturing plant in Forlì. The new plant, with the already existing premises in San Mauro Torinese and San Secondo di Pinerolo, has now doubled the production capacity of the company.

The project originated from the need to meet the demand for increasing production volumes and to have the necessary space to build large dimension machine tools.



A modern, efficient production plant was needed, with the necessary structures and areas for designing and manufacturing the new machine tools and milling systems required by the market.

The new plant was constructed incorporating an existing industrial structure, and paying particular attention to its impact on the surrounding area, while also respecting the local built environment.





The manufacturing plant in Forlì has a number near 70 employees, and a production volume of nearly 40 million Euros. A higher production capacity was necessary to meet Fidia's new prospects within its market.



# D321

The new D321 line is the best solution for mold finishing applications having a compact size with a very large working envelope.

The wide opening front door is ideal for loading large and heavy workpieces while offering an unsurpassed visibility.

On D321 and DL321 the working table is made of cast iron as an independent part, fastened to the floor, while on D321/M the table is integrated into the monolithic structure of the machine.







## Group Net Revenues

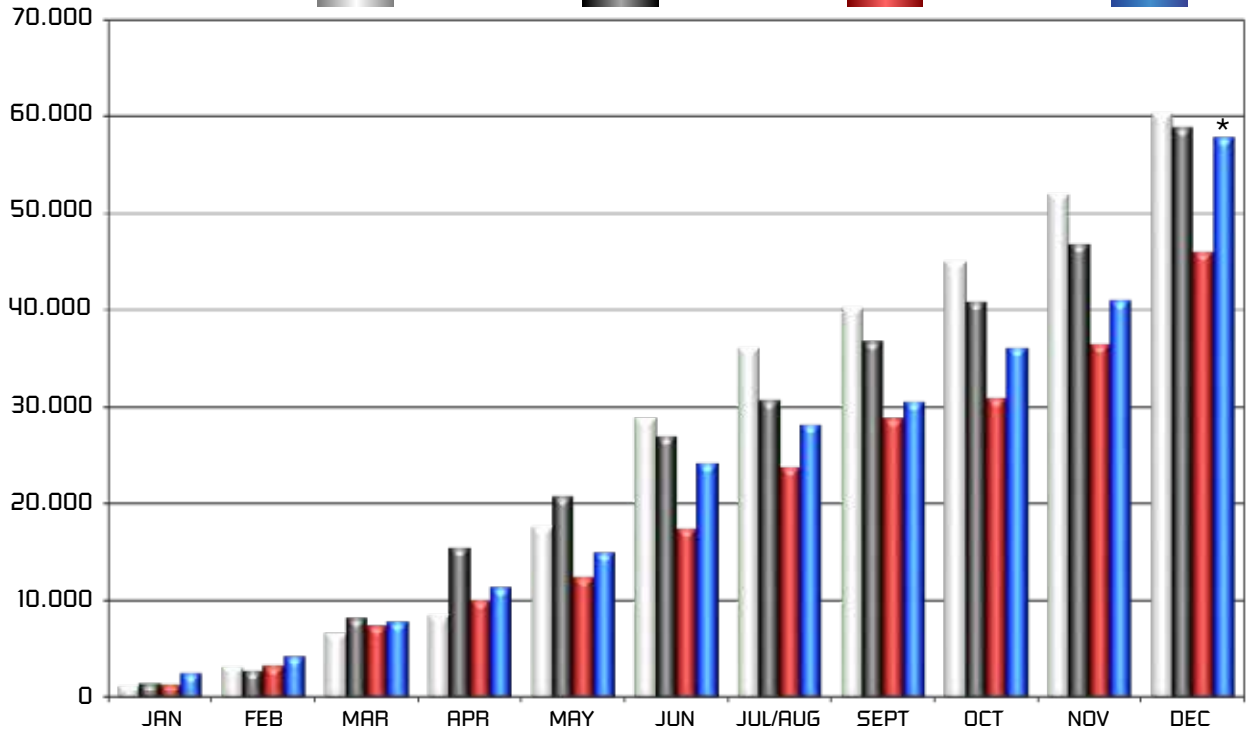
Euro/thousands

2015

2016

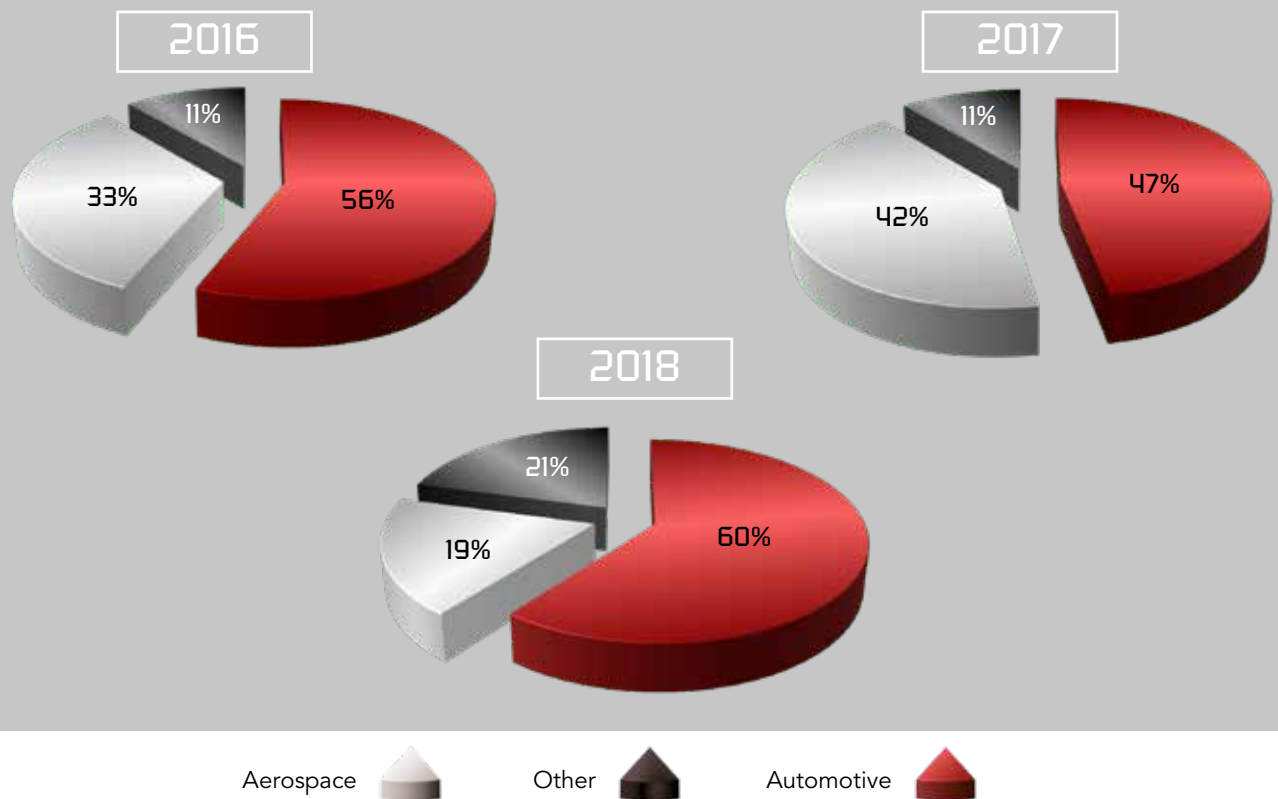
2017

2018



\* Estimate

## Group Net Revenues per Market



Aerospace

Other

Automotive



## G996 RT

### 5-axis milling center



Upper gantry structure with high rigidity monolithic basement and integrated roto-tilting table.

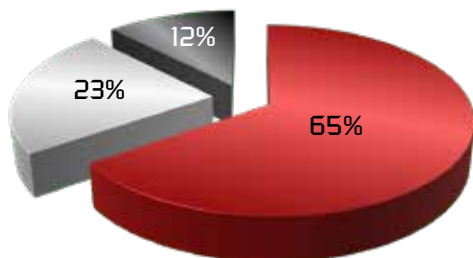
Ideal for high precision 5 sides and 5 axis machining.

The machine is fully equipped with active thermal control.

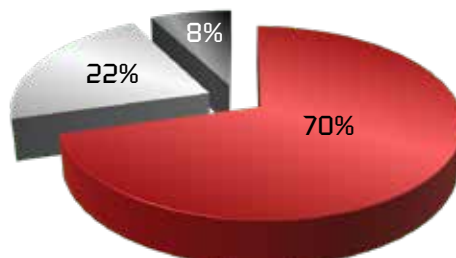


## Consolidated Net Revenues by business line

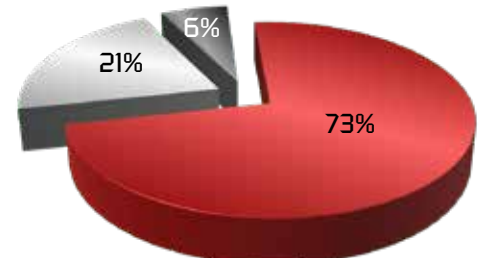
2016



2017



2018



Total milling systems line (HSM)



Total numerical controls line (CNC)

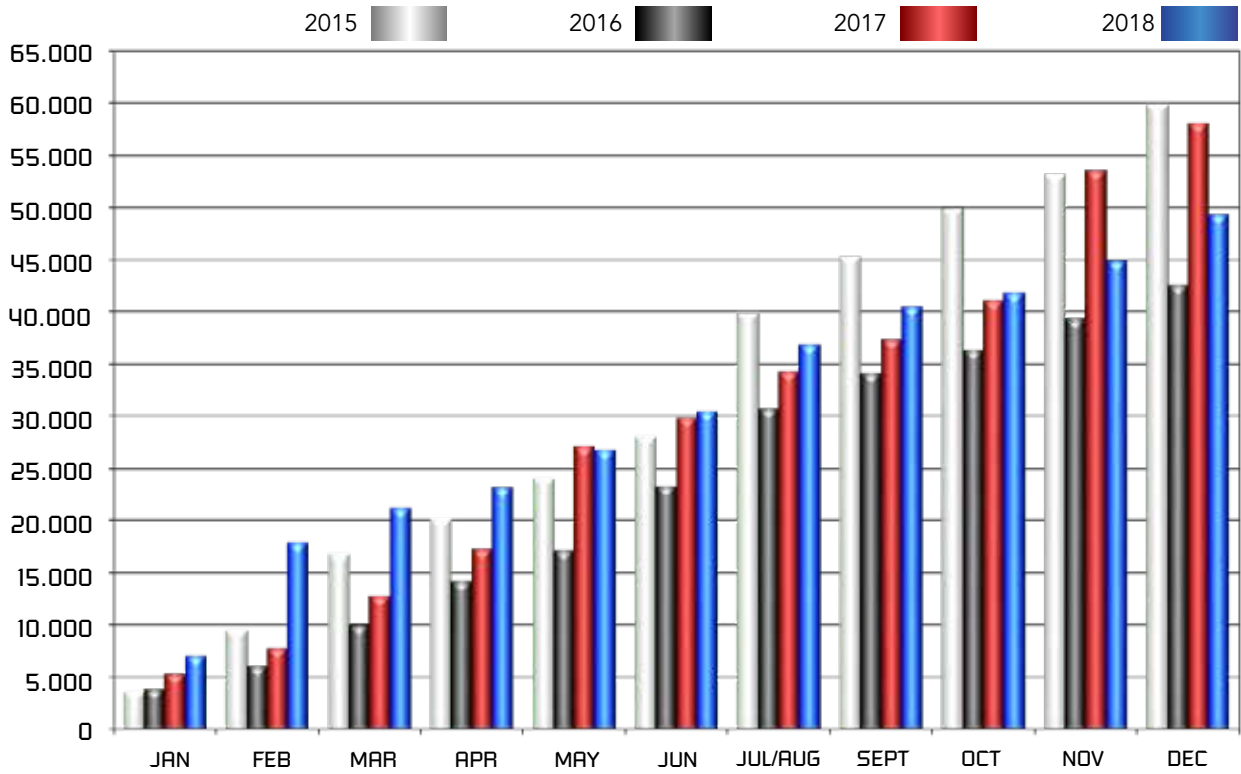


Service (HSM - CNC)

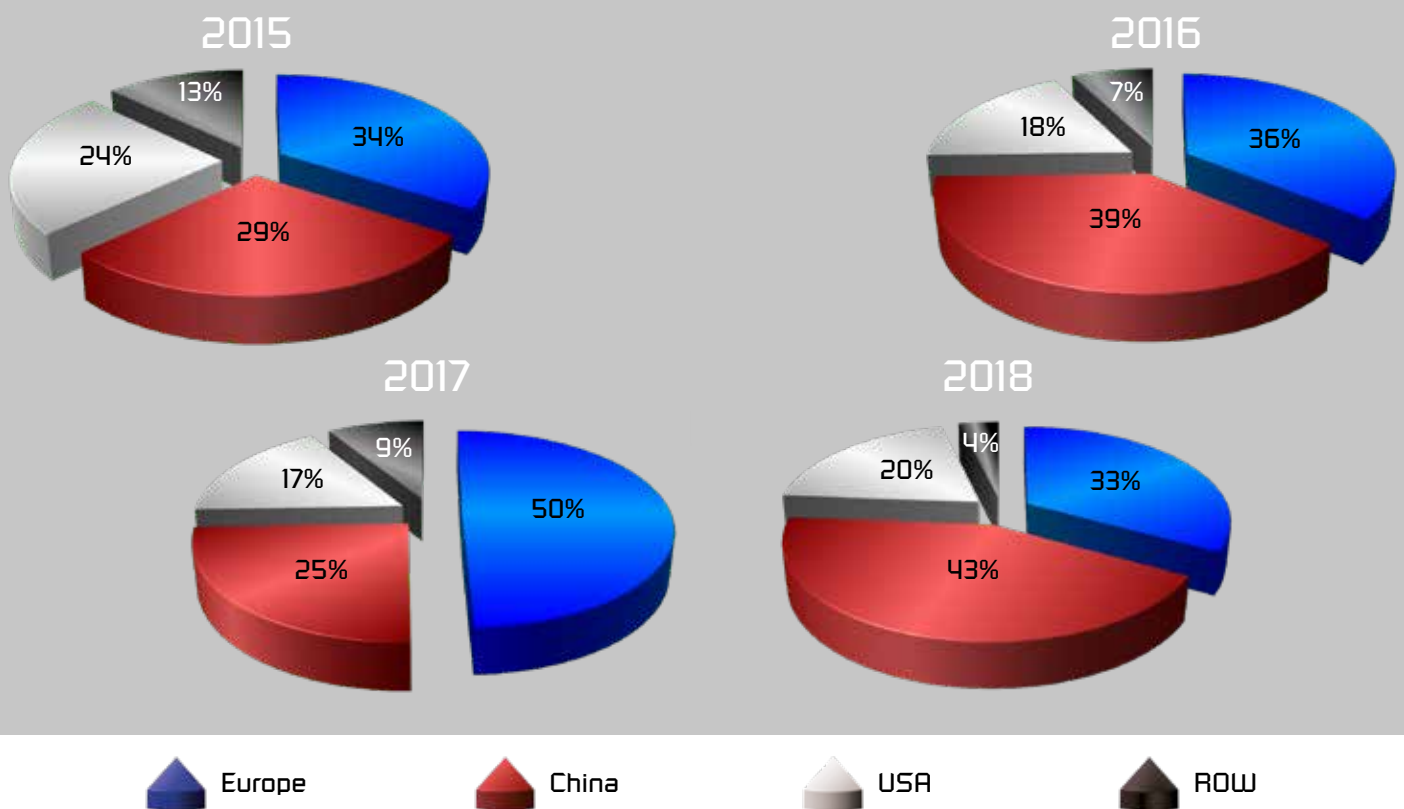


## Group Order Acquisition

Euro/thousands



## Group Order Acquisition per Area



Europe



China



USA



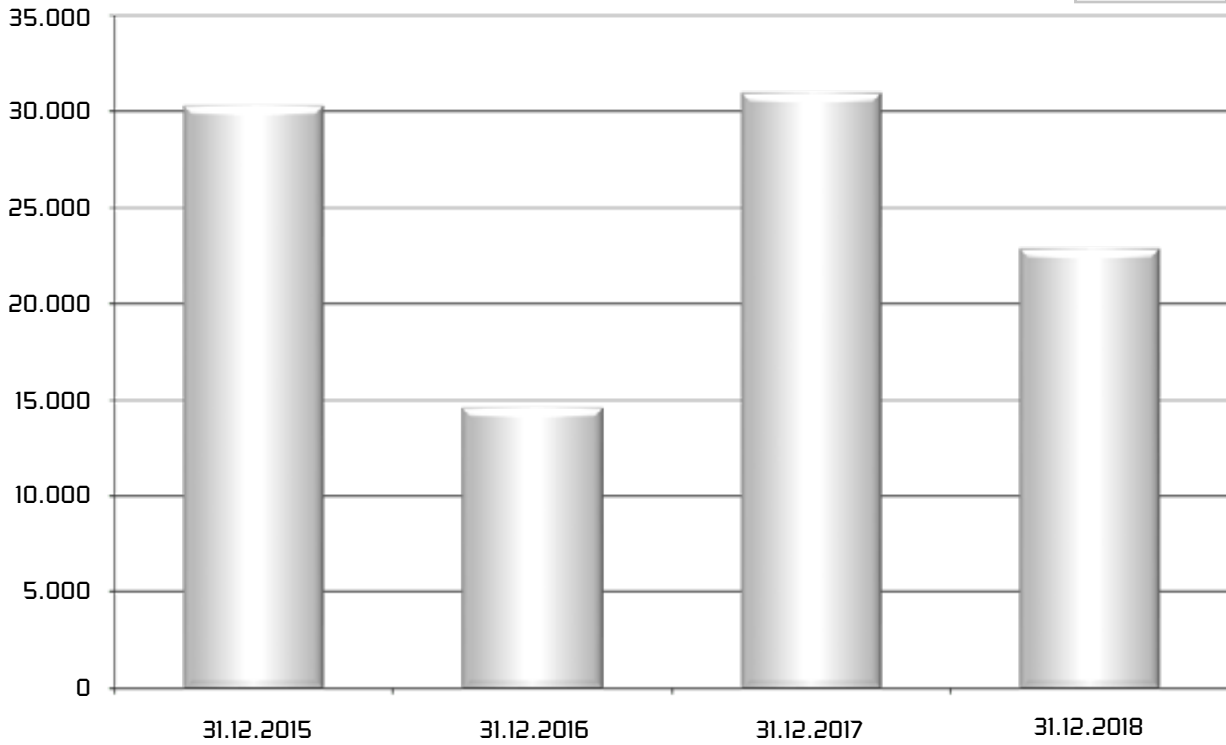
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## Order Backlog

Euro/thousands

HSM

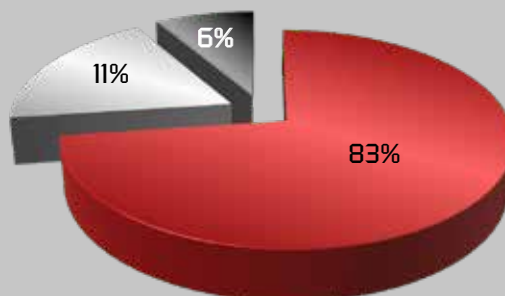
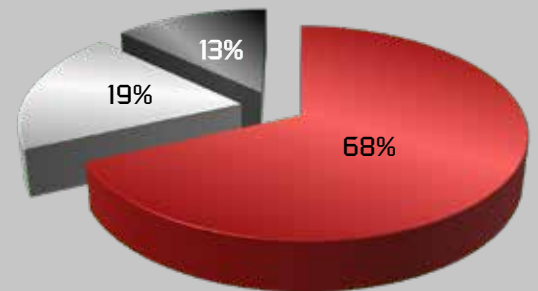
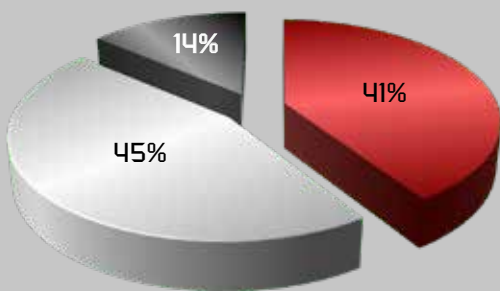


## Backlog per Market

2016

2017

2018





## Research and Development

The R&D activities, carried out mainly by the parent company Fidia S.p.A., have always been one of the strengths of the Group and received substantial investments over the years. A team of approx. 38 people supported by specialized consultants is currently dedicated to R&D activities.

The R&D activities are carried out mainly by in-house resources and a substantial part of the expenses incurred consisted of costs for personnel (about 2,0 million in the FY 2017). All costs incurred are posted directly to the income statement.

R&D allows the Group to pursue the goal of constantly adapting its products to customer needs and to be always at the forefront thanks to technological innovation in its commodity sector.

Research covers both lines of business of the Group.

The costs incurred by the Group in 2017 amounted to approx. 2,2 million (about 4,8% of revenues).

In cooperation with Italian and European Research Centres and several leading Industrial companies, the Group is engaged in:

- 3 projects co-financed by the European Commission within H2020 Programs.
- 1 italian project financed by Regione Piemonte





## ViMill®

ViMill® real-time 3D virtual collision look-ahead software effectively help the machine operator in avoiding unforeseen and always very costly collisions.

While milling is in progress, ViMill® is monitoring any unexpected collision situation by graphically executing the actual milling process comfortably ahead in the part program future blocks.

Additionally, ViMill® 3D anti-collision graphic simulation software is also active in JOG Mode, allowing a highly safe operation of manual axis displacements. Such feature is of great support to the operator especially in case of low reciprocal visibility of the tool, workpiece or milling head.

Despite the safety provided by off-line part-program simulation software products, actual machining conditions may vary due to the need of modifying a range of machining set-up, like a different positioning of the workpiece, the off settings of tools or "return to job" and stop and go operations.

ViMill® acts like a safety guard of the machine: a 3D virtual reality "avatar" focused on observing and safely controlling the resulting situations of the given milling toolpath in the near future.



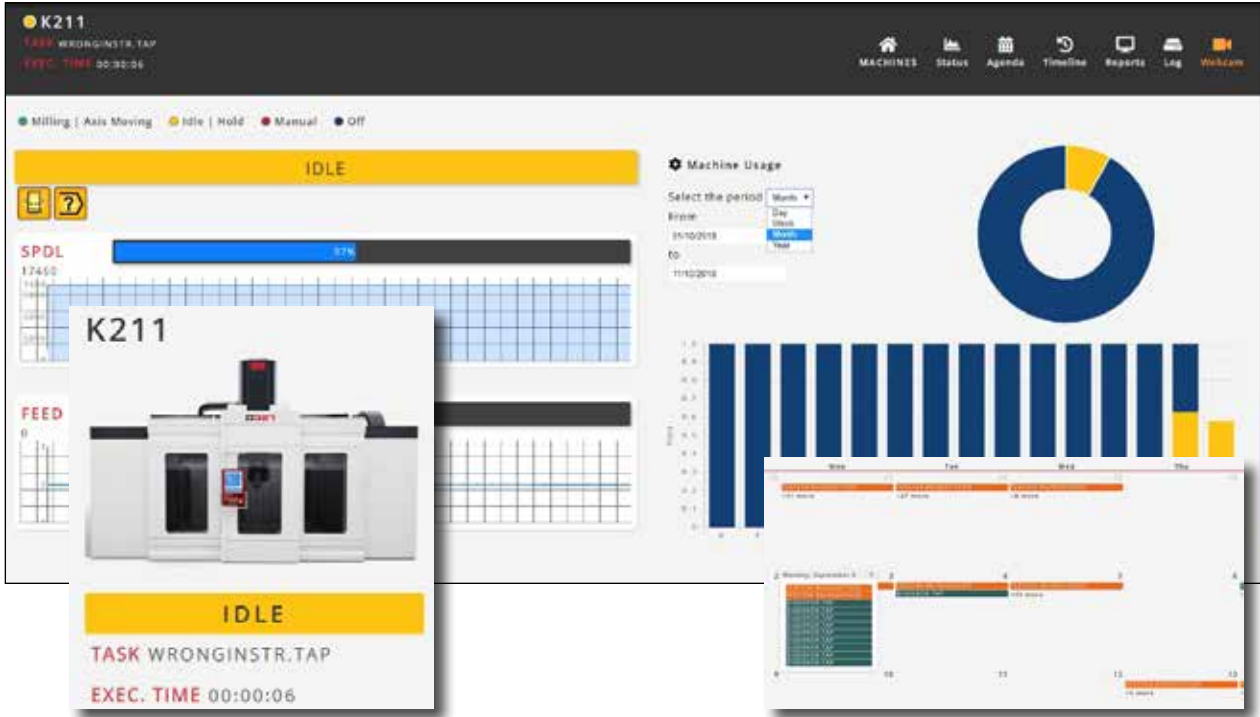
## C40 Vision



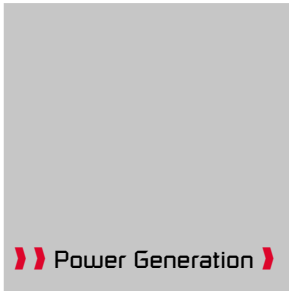
The C40 Vision numerical control is an innovative solution for machining in a modern and efficient way. By integrating the software ViMill® offers performance and features of highest level and extraordinarily effective for the control and the safety of machine tools.



# HiMonitor



In order to monitor activities performed on the machines, from milling times to machine downtime and faults, Fidia has developed the HiMonitor module which provides this information both on the control and on a remote device, such as a smartphone, tablet or PC.



## GTF line



The new GTF Gantry machine Line, identified by a wide operative volume modularity, combines High Speed performances with great structural stiffness.

## Heads



Fidia proprietary heads dedicated to a wide application range, from the heavy chip removal to the 5-axis super-finishing.







## Numerical Controls



The FIDIA numerical control line can be installed on a wide range of machine tools: from traditional milling and boring machines to machining centres, including the most complex high speed milling systems.

## HMS



The HMS system is a device designed to check and correct geometric errors of continuous and indexed bi-rotary heads as well as roto-tilting tables.



## Gantry type high speed milling machines

### Modularity and Performances

The GTF/R Gantry is characterized by a wide operative volume modularity, and combines High Speed performances with the stiffness of its structure.



# GTF/R



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