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October 2018



31.BI-MU: THE DIGITAL ERA OF MACHINE TOOL/THE FIGURES

From 9 to 13 October 2018, fieramilano Rho will be the stage for 31.BI-MU, **the most important Italian exhibition dedicated to the industry manufacturing metal cutting and metal forming machine tools, robots and automation and to digital manufacturing, auxiliary and enabling technologies.**

Promoted by UCIMU-SISTEMI PER PRODURRE, the Italian machine tools, robots and automation systems manufacturers' association, and organised by EFIM-ENTE FIERE ITALIANE MACCHINE, **31.BI-MU presents a new index of products, covering all solutions related to the factory of the future** and, according to tradition, it will take place at the same time as SFORTEC INDUSTRY.

Metal cutting and metal forming **machine tools**, robots, automation, digital manufacturing, auxiliary technologies, enabling technologies, additive manufacturing, fluid-power systems, mechatronics, surface finish treatments, tools, components, equipment and accessories, metrology, welding, **IoT, big data, analytics, cyber security, cloud computing, augmented reality, system integrators, vision systems, software**: these are only a few of the technologies on show at 31.BI-MU, which, for the first time, will also propose a wide range of **consulting and start-up** services.

The key players of the event are 1,056 enterprises, of which 40% are from abroad, representing **27 countries**: Austria, Belgium, Brazil, Bulgaria, Canada, China, Denmark, Finland, France, Germany, Great Britain, Holland, India, Israel, Japan, Poland, Portugal, Czech Republic, San Marino, Spain, South Korea, Sweden, Switzerland, Taiwan, Turkey, Ukraine, USA.

The visitors will have at their disposal **a comprehensive and varied product offering, partially unprecedented** also thanks to the new innovation areas dedicated to IoT (FABBRICAFUTURA), consulting (BOX CONSULTING) and start-up companies (BI-MU STARTUPPER). **Indeed, 34% of the exhibiting companies will take part in BI-MU for the first time.**

The exhibited machines are about 4,000 for a value of 500 million euro. The occupied exhibition area exceeds 100,000 square meter, i.e. 10% more compared with the previous edition.



THE INNOVATION AREAS

Besides the traditional trade show, 31.BI-MU will present numerous new Innovation Areas, devoting special attention to the technologies and transformations that are contributing to the integration and digitalisation of factories.

At the end of 2018, Italy will be able to have a first outcome of an industrial two-year period, oriented and driven towards the digital evolution of machinery and factories, also thanks to the National Plan Industry 4.0. **31.BI-MU will be a natural stage to illustrate the fusion and influences between the world of manufacturing systems and digital technologies**, offering an in-depth analysis of the main trends of the markets and of the productive models generated in the first years of the “fourth industrial revolution”.

FABBRICAFUTURA (Hall 13) will be dedicated to host developers of software and technologies for connectivity and for data safety and management, to allow each production stage to acquire a digital identity.

ROBOT PLANET (Hall 13), supported by SIRI (Italian Robotics and Automation Association), will be an innovation area focused on industrial and collaborative robots, integrators and automation systems.

BOX CONSULTING (Hall 13) will be fully dedicated to the services related to know-how, competence and certification. In addition to management consulting, BOX CONSULTING is conceived to encourage the creation of a common language shared by manufacturers of industrial machinery and developers of connectivity technologies, facilitating the matching between demand and supply of Industry 4.0.

BI-MU STARTUPPER (Hall 13) will be an area reserved for new enterprises and for young innovators involved in the development of products and projects linked to the world of manufacturing systems and metal machining. BI-MU STARTUPPER will enable to transform BI-MU into a meeting place to discuss well-established industrial models and new business visions. The area will host the **Italian Startup Collective of ICE-Italian Trade Agency**” arranged by ICE in cooperation with UCIMU-SISTEMI PER PRODURRE and Italia Start Up. Besides the **12 start-up companies of the Collective**, **EIT Digital** stands out as the leading organisation entrusted with driving the digital transformation in Europe: it will present a wide range of solutions developed by six highly innovative scaleups belonging to the **EIT Digital Accelerator**.

ADDITIVE TECHNOLOGIES CLUB (Hall 11)

Besides offering a potential, competitive advantage for the sectors characterised by need of strong product customisation, such as that of machine tools represented at BI-MU, Additive Technologies have also established themselves in the field of prototyping and design, ensuring very high standards in these very delicate steps of the production chain. Arranged by AITA-ITALIAN ASSOCIATION OF ADDITIVE TECHNOLOGIES, having over 200 member companies, this area set up in Hall 11, also includes the space of **BI-MU più Additive**, which will host the speeches of the key players of the sectors represented at BI-MU, as well as some thematic insights.

In addition, there will be also traditional areas: **POTENZA FLUIDA /FLUID POWER (Hall 13)** will show the best product offering with regard to systems and components for the transmission of

mechanical and fluid-dynamic power; **FOCUS MECCATRONICA/FOCUS "MECHATRONICS"**(Hall 13) organised in cooperation with AldAM (Italian Association of Automation and Mechatronics) and IMVG (Italian Machine Vision Group) and dedicated to optimization and smart solutions for machines and industrial processes; **IL MONDO DELLA FINITURA DELLE SUPERFICI/THE WORLD OF SURFACE FINISHING (Hall 11)** will propose the most qualified supply of machines and systems for surface finish and treatments: washing, industrial painting and coating, galvanisation, chemical and electrochemical processes, metallization, nano-technological treatments.

SFORTEC INDUSTRY

SFORTEC INDUSTRY (**Hall 9**), the trade show focused on technical subcontracting and services for the industry, will take place in conjunction with BI-MU.

Promoted by CIS - Interassociative Subcontracting Committee and by UCIMU-SISTEMI PER PRODURRE, SFORTEC INDUSTRY is organised by EFIM-ENTE FIERE ITALIANE MACCHINE. Therefore, besides the MAKE of BI-MU, for those who design and manufacture, there will be an alternative visit tour: the "BUY" of SFORTEC INDUSTRY, for those who prefer to outsource some of their activities.





For the first time in its long history as a B2B exhibition, BI-MU will combine its exhibition with an in-depth cultural analysis of specific issues, developed not only through a “classical” conference programme, but also thanks to a well-structured **schedule of side events**.

Organised in different thematic areas – machine tools, **fabbricafutura**, **consulting**, **robotics**, **mechatronics**, **additive manufacturing**, and **startups** – the meetings will take place throughout the trade show.

Exhibitors will also and mostly be the “stars” of these events: they will have a special stage at their disposal to present their novelties. In addition to these 20-minute meetings, there will other events of institutional character, arranged by the organisers and including the speeches of authoritative experts and exponents of the manufacturing world.



Over 90 meetings are scheduled in two event points: BI-MUpiù, the arena set up in Hall 13 area A66-B79, which will also host the inaugural conference, and **BI-MUpiùAdditive** included in the area of the Additive Technologies Club, Hall 11 stand E195, and dedicated to the players of the Additive Manufacturing. It will also be the stage for the speeches of the start-up companies.

The Scientific Coordinator of the meeting schedule of BI-MUpiù is Luigi Serio, Professor of Economics and Business Management at the Catholic University of Milan. The initiative is organised with the support of the Lombardy Region.

The schedule of meetings is available on the following pages. Possible updates are available directly on bimu.it in the page of events. It can be reached also through the QR Code.





PAD/HALL 11
stand E 195

OTTOBRE 2018
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10.30-11.00			Istituto Italiano della Saldatura La qualità del processo nelle tecnologie additive: lo standard dell'European Welding Federation	UNINFO Innovazione tecnica e tecnologie additive	
11.00-11.30		Evento INAIL Presentazione "Linea di indirizzo. La sicurezza nelle tecnologie additive. Fusione o sinterizzazione a letto di polvere"	Renishaw Scandaliatori di calore allepenti e vetture elettriche, è possibile con (Additive Manufacturing)	Simu La nuova era nella produzione industriale additiva	
11.30-12.00			Zare Additive Manufacturing: costruzione, sinterizzazione meccanica e sinterizzazione laser (sinterizzazione)	Trumpf Realizzazione di un sistema ad alta efficienza termica con l'impiego di tecnologia additiva	
12.00-12.30			Niifisk Additive Manufacturing, we make it safe	GF Machining Solutions Produzione additiva di componenti strutturali per turbine a gas	
12.30-13.00					
13.00-13.30					
13.30-14.00					
14.00-14.30	3D Systems Software La tecnologia di stampa SLA di 3D System - la nuova generazione di materiali all'avanguardia		Energy Group Presentazione di due sistemi di stampa 3D in metallo per l'intero ciclo di vita del prodotto, dalla prototipazione alla produzione di massa.	Sisma La manifattura additiva Lwr per le turbine scariel, un caso studio	
14.30-15.00	HP Italy Le soluzioni HP per la stampa 3D professionale: panoramica dalla tecnologia e migliori casi studio	Evento progetto europeo METALS (Machine Tool Alliance for M-TA)	Siemens Industrialize Additive Manufacturing	Cmf Marelli Metco è rivoluziona la stampa 3D in metallo: ecco la soluzione di produzione industriale accessibile a tutti	Evento di ICE a supporto delle startup innovative
15.00-15.30	Alfa Romeo - FCA Italy Challenge for AM Competence		Lpw South Europe Rendite Life: gestione delle polveri nei processi Additive Manufacturing	Ridix Le sfide dell'additive Manufacturing sul Sea Digital	
15.30-16.00	Artedias Italia La stampa 3D al servizio della produzione industriale		Meccatroncore La stampa 3D, strumento per l'ottimizzazione	Celada R.F. Evoluzione nella tecnologia letto additivo	
			Noa3D - New Office Automation NOA3D porta in Italia le nuove soluzioni di produzione additiva di XYZ Printing. Dalla piccola alla grande azienda: 3 casi di studio	3NTR - Ideal Form Produzione "additiva" di parti polimeriche customizzate per l'industria	
16.00-16.30	Sharebot Stampanti 3D oggi e domani		Carl Zeiss Code polymer al pezzo finito, concesso a 240° di 20-30	3DZ Treviso La stampante 3D Pratiel Fusion di HP - il caso Biotech Italia	





THE MEETINGS ARRANGED BY THE ORGANISERS

RECEPTION OF FOREIGN USERS' DELEGATIONS

9 OCTOBER 2018, 9:45 AM, Martini Room, Service Centre

Organisation by UCIMU-SISTEMI PER PRODURRE in co-operation with ICE-Italian Trade Agency and the Ministry of Economic Development.

Over 250 foreign delegates will meet the top managers of UCIMU, ICE-Italian Trade Agency and Ministry of Economic Development for a first presentation meeting.

INAUGURAL CONFERENCE

TUESDAY 9 OCTOBER 2018, 10:30 AM, BI-MUpiù AREA

Organisation by UCIMU-SISTEMI PER PRODURRE

Opening speeches: Massimo Carboniero-President of UCIMU-SISTEMI PER PRODURRE, Fabrizio Curci - Managing Director of Fiera Milano, Roland Feichtl - President of CECIMO and Attilio Fontana - President of the Lombardy Region.

Round Table: new technologies, new professional skills for new organisations and new work.

Massimo Carboniero - President of UCIMU-SISTEMI PER PRODURRE

Marco Bentivogli - Secretary-General of FIM Cisl

Alberto Dal Poz - President of FEDERMECCANICA

Alfredo Mariotti - General Manager of UCIMU-SISTEMI PER PRODURRE, introduces the conference and acts as a moderator.

PRESENTATION OF INAIL GUIDE

GUIDELINES ON THE SAFETY OF ADDITIVE TECHNOLOGIES

WEDNESDAY 10 OCTOBER 2018, 10:30-12:30 AM, BI-MUpiùAdditive AREA

Developed by Aita and INAIL, the guide is studied for employers, users and operators in the field of machinery safety that are experiencing the application of additive manufacturing in their workplaces.

Speaker: Luciano di Donato - INAIL

PRESS CONFERENCE FOR FOREIGN JOURNALISTS

WEDNESDAY 10 OCTOBER 2018, 2:30-3:30 PM, ROOM 75, Service Centre

Presentation of the exhibition dedicated to foreign journalists visiting the trade show.

Speakers: Massimo Carboniero - President of UCIMU-SISTEMI PER PRODURRE and Alfredo Mariotti - General Manager of UCIMU-SISTEMI PER PRODURRE.

PRESENTATION OF THE EUROPEAN PROJECT METALS "MACHINE ALLIANCE FOR SKILLS"

WEDNESDAY 10 OCTOBER 2018, 2:00-4:00 PM, BI-MUpiùAdditive AREA

The analysis of new skills and the definition of future jobs related to the spread of additive-manufacturing technologies is the output of the research coordinated by CECIMO, with the participation of UCIMU, AFM (Spanish Association), VDW (German Association).

Speakers: Urska Primec - European Commission, Vincenzo Renda - CECIMO, Emanuela Luppino - Ecole, Luigi Benedetti - Mechanical Design Engineer.

Moderator: Stefania Pigozzi - UCIMU-SISTEMI PER PRODURRE

SIRI: ROBOTICS TODAY

FRIDAY 12 OCTOBER, 1:50-2:20 PM, BI-MUpiù AREA

Presentation of updated data with regard to robotics in Italy and abroad.

Speakers: Arturo Baroncelli - SIRI and IFR, Francesco Giovacchini - IUVO

Moderator: Luigi Serio, Professor of Economics and Business Management at the Catholic University of Milan.



EXHIBITOR'S EVENING

FRIDAY 12 OCTOBER, 6:30-9:00 PM, Martini Room, Service Centre

Meeting with Andrea Vitali, Beppe Bergomi and Samuele Robbioni, authors of the book “Bella zio” published by MONDADORI and dedicated to the youth life of the world football player Bergomi, when he was 18 years old at the World Championship in Spain in 1982. The moderator is the journalist Nando Sanvito. The awards ceremony of Maestri della Meccanica, 2018 edition, will then follow. Cocktail and music. Evening by invitation only.

WELCOME TO AUTOMATION

SATURDAY 13 OCTOBER 2018, 10:00-10:20 AM, BI-MUpiù AREA

Awards ceremony for the winners of the 2018 edition of the “Welcome to Automation Award” promoted by BALLUFF and sponsored, among others by: UCIMU-SISTEMI PER PRODURRE, BI-MU, Anie and Sps.

Speaker: Sergio Paganelli, CEO of BALLUFF Italia.

UCIMU AWARDS

SATURDAY 13 OCTOBER 2018, 10:30-12:30 AM, LEM 3

UCIMU Awards ceremony for the best degree thesis dedicated to the sector.

Speakers: Massimo Carboniero, President of UCIMU, Dario Galli, Vice-Minister of Economic Development and Alfredo Mariotti, General Manager of UCIMU.

THE DELEGATIONS OF FOREIGN BUYERS

The only trade show of the sector in Italy that has always been able to attract an international public, 31.BI-MU will host – according to tradition – **qualified foreign delegations for a total of over 250 operators**, including users and journalists coming from **22 countries: Algeria, Brazil, Canada, China, Ethiopia, India, Indonesia, Iran, Israel, Malaysia, Morocco, Mexico, Poland, Russia, Saudi Arabia, Serbia, Slovenia, Thailand, Tunisia, Turkey, USA and Vietnam**. The initiative is organized by UCIMU-SISTEMI PER PRODURRE, ICE-ITALIAN TRADE AGENCY and the Ministry of Economic Development.



FCA – ALFA ROMEO IN THE SPOTLIGHT OF 31.BI-MU

Among all destination fields of the machine tool, automation and robot industry, the automotive sector is the one that more than any other acquires systems and technologies. Actually, manufacturing systems are necessary for producing a large part of the components making up a vehicle, from the body to the engine, mechanical parts and accessories.

To highlight the close connection between cars and machine tools, 31.BI-MU will host the special FCA-Alfa Romeo area that will be set up at the trade show with its division dedicated to the business world. It will be characterised by one of the largest and structured ranges related to it: from the sports car to the off-road vehicle, the work vehicle and the prestige car.

In particular, in the stand set up in Hall 13 (Area D79), the public will admire two exceptional Alfa Romeo models: Stelvio, the first SUV in the history of Alfa Romeo, and the sports sedan Giulia, the earliest creation of the new Alfa Romeo generation.

As the expression of the best Made in Italy, the two cars prove to be the right choice both for work purposes and for leisure time, as shown also by the Business versions. They meet professional needs, however without renouncing the exclusive and sporty character of the two models. In addition, in the stand it will be possible to be informed about all solutions, including the rent proposals and the financial ones, studied by the Group expressly for the business customers.

Besides the display of the flagship models of Alfa Romeo brand, the FCA Group will be in the spotlight with the **test-drive area**, set up - **outside the halls - in Largo Nazioni Ovest over an area of 20,000 sq m**, where the operators visiting the exhibition will have the chance to test some models of FCA, among which the Jeep SUVs: **Compass**, the perfect combination of Jeep technology, personality and design; the new **Cherokee**, the evolution of the most performing SUV in its category, at ease both in the urban context and in the off-road adventures; **Renegade**, the first Jeep car made in Italy. It will be also possible to drive the new **Fiat 500X**, which shows a renewed design and new Full Led lights, adopting a new generation of FireFly turbo engines – thus allowing a 20% reduction of fuel consumption compared with the previous petrol engines - advanced connectivity and infotainment systems, as well as new driving-assistance systems that make it the most technological Fiat car ever. Other cars available on show for test-drives will be: the modern and reliable **Fiat Tipo**, capable of meeting any requirement of mobility for companies, and some Giulia and Stelvio cars, the best Alfa Romeo sports models.



PLANET OF THE YOUNG

A traditional initiative dedicated to young students at BI-MU, Planet of the Young will be hosted within the space of ECOLE (**Hall 9 Stand C02**), a firm specialising in the organisation and coordination of career counselling, professional education, training and update initiatives and employment services.

Promoted by FONDAZIONE UCIMU, in cooperation with ECOLE, Planet of the Young will receive the visit of 390 young people accompanied by their teachers. The students of 6 schools, including technical high school and professional institutes, will be guided in a special visit to the exhibition organised by a technological expert tutor that will illustrate state-of-the-art technologies and novelties of the sector. At the end of the guided tour, the students will receive a certificate of attendance valid for the calculation of hours with regard to, "Alternanza Scuola Lavoro (Work-related Learning).

In order to enable the largest number of students to directly verify the innovation contents of the sector and, at the same time, to avoid overcrowding the aisles of the exhibition halls, the organisers have envisaged the access up to further 2,200 students equally distributed over three days (Wednesday, Thursday and Friday), for free visits always accompanied by teachers and with pre-registration on the website.

WELCOME TO AUTOMATION

Welcome to Automation is the contest organised by BALLUFF and addressed to the classes of technical high schools and professional institutes all over Italy, awarding the best working projects of automation systems and robotics, which may fulfil a social purpose and are made of 90% recycled material.

UCIMU-SISTEMI PER PRODURRE is one of the sponsors of the initiative, whose awards ceremony will take place on Saturday 13 October at 10:00 am in the BI-MUpiù AREA. The three finalist schools selected by the jury during SPS last May are:

ITS Amedeo d'Aosta - L'Aquila - **Cuore di Robot**, a fully automated stretcher

ITIS Jannuzzi - Andria (Bari) - **Blaze Hunter**, innovative project for forest fire prevention and monitoring.

ITT Morselli - Gela (Caltanissetta) - **Robear 3.0**, a robot capable of detecting the presence of people in environments involved in accidents (fire, building collapses, etc.).

On the occasion of the event at BI-MU, teachers and students will be informed about the final ranking.



“BLUE PHILOSOPHY” FOR THE ENTERPRISES WITH UCIMU MARK



The way of designing and manufacturing the whole range of products considerably depends on machine tools. Their manufacturers are working more and more on the development of eco-friendly production systems, which may enable the users to exploit resources in a rational way, while reducing the use of energy, raw materials and instruments.

Therefore, the companies authorized to use the UCIMU mark, as a distinctive sign attesting to the most qualified Italian production, have long undertaken to manufacture machine tool capable of ensuring environmental sustainability in the production cycle where they are used.

This commitment translates to a real philosophy, the “Blue Philosophy”, testified by the UCIMU mark. Starting from January 2011, the attention to environmental issues is indeed a criterion for the assignment of the UCIMU mark, in addition to commercial reliability, financial soundness, highest attention to safety and functional tests, as well as “customer care”.

The UCIMU mark is legally-registered and it is granted to the member companies of UCIMU-SISTEMI PER PRODURRE that are capable of attesting - by strict and detailed tests (regularly repeated) - company characteristics that no other certification pattern takes into account at the same time.

The companies authorized to use the "UCIMU Blue Philosophy" mark are easily recognizable as they display the relevant identification banner at their stands.

The stand of UCIMU will be specially dedicated to the above companies (**Hall 15 Stand G 30**).



MAESTRO DELLA MECCANICA/MASTER OF MECHANICS

Promoted by FONDAZIONE UCIMU and created by UCIMU-SISTEMI PER PRODURRE, the MAESTRO DELLA MECCANICA Award is given to those who contributed and contribute to the evolution of the Italian mechanical industry. The awards ceremony of the ninth edition will take place within 31.BI-MU/SFORTEC INDUSTRY, on Friday 12 October, during the EXHIBITOR’S EVENING.





31.BI-MU AND SFORTEC INDUSTRY. ALL SERVICES FOR THE OPERATORS

The organisers of 31.BI-MU/SFORTEC INDUSTRY, also with the support of expert partners, arranged a wide range of services available before, during and after the exhibition period and studied for the operators attending the event.

Some **facilities** at the operators' disposal are: services of travel assistance, shuttles from and to Fieramilano (from Linate and Malpensa airports) and within the Exhibition Centre, opening of the special stations of high speed trains (Freccia Rossa and Italo) from the main routes, the coffee service offered at Punto Lavazza Nims in **Hall 13**.

The **consulting services** proposed at the exhibition by qualified partners include: **UIBM – Italian Patent and Trademark Office** of the Ministry of the Economic Development for support with regard to patents (**Hall 13 Stand B85**); **QSA Certification**, for information regarding the technical regulations and importer's liabilities that are currently in force in the Russian market and in the EurAsEc Customs Union; **Studio Impex**, for assistance concerning the new procedures for exporting dual and non-dual goods.

GOLDEN CARD: MUCH MORE THAN A FREE-ENTRY CARD

The admission to BI-MU is, as usual, free of charge for those who pre-register on the website bimu.it (pre-registration is possible until the end of the event). The free-entry card is called "Golden Card", which, besides free admission to 31.BI-MU/SFORTEC INDUSTRY, **offers several discounts and special rates at "partner" hotels, restaurants and shops**, as specified in the list on www.goldencard.it.

Moreover, this year, thanks to the agreement with Gruppo MilanoCard, Golden Card holders can buy special MilanoCards created "ad hoc" to give unlimited access to public transport, including the Rho-Fiera connections (twice a day), as well as discounts and special conditions for restaurants, services and entry tickets to museums and monuments. There are two versions of MilanoCard for Golden Card holders: prices and details are available on www.golden-card.it.



31.BI-MU AND SFORTEC INDUSTRY: BRIEF SHEET

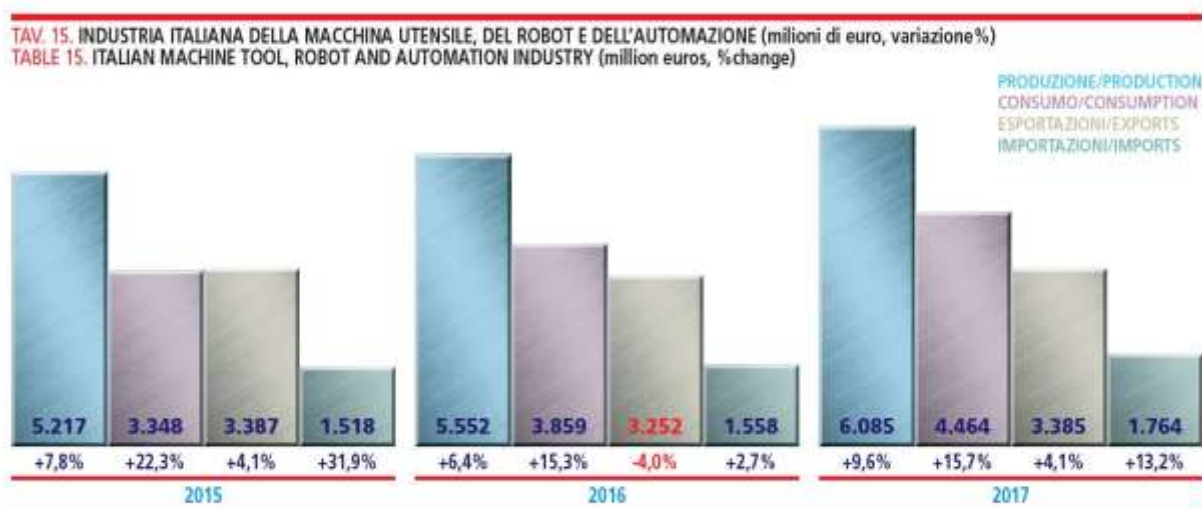
Frequency	Every two years
Organisation	EFIM-ENTE FIERE ITALIANE MACCHINE
Promotion	UCIMU-SISTEMI PER PRODURRE and CIS-COMITATO INTERASSOCIATIVO SUBFORNITURA
Total exhibit area	OVER 100,000 square meter
Exhibiting companies	1,056
Represented countries	27
Venue	fieramilano Rho
Date	9-13 October
Hours	9:30 am – 6:00 pm
Events	BI-MUpiù BI-MUpiùAdditive FCA-ALFA ROMEO (EXHIBITION AND TEST-DRIVE)
Exhibition Website	www.bimu.it , www.sfortec.it

THE ITALIAN MANUFACTURING INDUSTRY OF MACHINE TOOLS, ROBOTS AND AUTOMATION

Data concerning the year 2017

In 2017, the world economy accelerated its growth pace (+3.5%) compared with the previous year (+2.9%). The development rate of international trade almost tripled, going from a moderate +1.7% in 2016 to +4.9%. In line with the overall trend, the exchange of manufactured products increased by 4.8%, versus +1.9% in 2016.

In 2017, the Italian economy went up (+1.5%). It is the best performance obtained by the country in the last period, but it is however one of the worst, if compared with those of the other European nations: only Greece grew less. Based on the quarterly analysis regarding the changes of the Gross Domestic Product, compared with the same period of the previous year, after an increase registered in the first quarter (+1.3%), there were three quarters of stronger growth with a stable trend (+1.6%, +1.7% and +1.6% in the other three periods). Once again investments represented the most dynamic component of demand (+3.3%), in particular those concerning machinery and equipment (+5%). A more moderate trend was shown in household expenditures (+1.4%) and public spending (+0.9%).



In 2017, the world production of machine tools went up, (+6.4%), to almost 75,100 million euro. In this context, Italy stood out for its excellent performance, achieving an increase above the average.

In particular, Italy strengthened its fourth place among world manufacturing countries and confirmed its third position among exporting countries, behind Germany and Japan.

In 2017, the Italian production of machine tools, robots and automation systems attained 6,085 million euro, reporting a 9.6% rise versus 2016. (TABLE 15)

Consumption went up by 15.7%, to 4,464 million euro, due to the excellent trend of deliveries in the domestic market, grown by 17.4%, to 2,700 million euro.

Imports increased by 13.2%, totalling 1,764 million euro; the market share covered by foreign machinery accounted for 39.5%.

After a negative 2016, in 2017 exports started to grow again, reaching 3,385 million euro, i.e. 4.1% more compared with the previous year. The export/production ratio decreased from 59% in 2016 to 56% in 2017. The trade balance went down by 4.3%, totalling 1,621 million euro.

The positive performance of the Italian industry of the sector influenced the level of use of production capacity, whose yearly average increased, from 79.1% in 2016 to 83.2% in 2017. The order portfolio also recorded a strong growth, which stood at 6.6 months of guaranteed production versus 5.9 months in 2016. Machine selling prices rose by 0.8% compared with the previous year.

INDUSTRIA ITALIANA MACCHINA UTENSILE, ROBOT E AUTOMAZIONE ITALIAN MACHINE TOOL, ROBOT AND AUTOMATION INDUSTRY									
	milioni di euro/ million euros			Δ% in termini correnti/ Δ% in current terms			Δ% in termini reali/ Δ% in real terms		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
PRODUZIONE/PRODUCTION	5.217	5.552	6.085	7,8	6,4	9,6	6,9	5,9	8,7
ESPORTAZIONI/EXPORTS	3.387	3.252	3.385	4,1	-4,0	4,1	3,3	-4,5	3,3
CONSEGNE SUL MERCATO INTERNO/DELIVERIES ON THE DOMESTIC MARKET	1.830	2.300	2.700	15,3	25,7	17,4	14,4	25,1	16,5
IMPORTAZIONI/IMPORTS	1.518	1.558	1.764	31,9	2,7	13,2	30,8	2,2	12,3
CONSUMO/CONSUMPTION	3.348	3.859	4.464	22,3	15,3	15,7	21,3	14,7	14,8
SALDO COMMERCIALE/ TRADE BALANCE	1.869	1.694	1.621	-11,1	-9,4	-4,3	-11,8	-9,9	-5,1
quota %/% share									
IMPORT SU CONSUMO/ IMPORT ON CONSUMPTION	45,3	40,4	39,5						
EXPORT SU PRODUZIONE/ EXPORT ON PRODUCTION	64,9	58,6	55,6						
numero/number									
OCCUPAZIONE/EMPLOYMENT	31.850	31.850	32.490						

EXPORTS

The analysis carried out on the geographic distribution of Italian exports over the last decade shows that, despite the continuous changes in the world scenario, the *Made by Italians* was able to meet the needs of customers, also penetrating the most dynamic areas of the international stage.

The European Union is always the first destination area for Italian sales, but the export share, absorbed by the area, considerably decreased from 48.7% in 2008 to 45.9% in 2017. Non-EU European countries also lost weight from 12.2% to 8.9%.

In the observed period, a strong recovery was highlighted with regard to the share of North America, which increased from 9.5% in 2008 to 15.4% of the total exported by manufacturers in 2017 - an outcome made possible by the growth of the manufacturing activity in the countries of this area.

A smaller rise was registered in the share of exports to Asia, going from 19.8% in 2008 to 22.8%; **on the contrary, the share absorbed by South America decreased** from 5.2% in 2008 to 2.3% in 2017. **The weight of Africa was stable** (3.4%).

In 2017, the exports to the **European Union** grew by 2.4% to 1,451 million euro. As in 2016, the first EU and world market was Germany (343 million euro, -9.1%), followed by France (213 million euro, -5.1%), Poland (162 million euro, +17.8%), Spain (134 million euro, +15.3%) and the United Kingdom (77 million euro, -6.1%), which reported a new downturn after the very negative performance of last year.

A strong upturn was registered in the sales **within the rest of the European continent**, +10.3%, for a value of 282 million euro. In detail, exports were up in Russia (89 million euro, +16.8%), remained unchanged in Turkey (87.5 million euro, -0.2%) and decreased in Switzerland (55.2 million euro, -4%).

The sales in **North America** went down by 2.9% to 487 million euro. In 2017, the United States were the third destination market for the Italian product offering of the sector, with 318 million euro (-9.8%); the exports of *Made by Italians* also dropped in Canada (47.7 million euro, -5.1%). The performance of Mexico showed a quite opposite trend: +22.6% for an amount of 122 million euro.

A drop was recorded also with regard to the sales in **South America**, which reduced its purchases from Italy by 5.1%, for an amount of 72.9 million euro. A negatively performing player of 2017 was Argentina, which imported Italian machine tools for an amount of 13.8 million euro (-25.7%). On the rise were the exports to Brazil (40.3 million euro, +11.2%), Colombia (4 million euro, +77.1%) and Ecuador (3.1 million euro, +63.1%).

Exports to **Asia**, second destination market for the *Made by Italians*, grew by 6.7% to 721 million euro.

East Asia absorbed the largest share of the total exports to this area, purchasing Italian machine tools for an amount of 437 million euro, 8.2% more than in 2016. In detail, sales started to grow again in China (+8.2%, 342 million euro), Japan (+71.1%, 28.9 million euro), Taiwan (+15.6%, 21.7 million euro). On the contrary, deliveries decreased in South Korea (-18.1%, 33.7 million euro).

In **Southern Asia**, exports dropped by 19.8%, to 63.7 million euro; the fall reported in the area was due to the negative performance of sales in India (-23.1%), down to 53.9 million euro. The sales growth in the ASEAN area kept on, highlighting a 24% upturn and reaching the value of 108 million euro. In first place ranked Malaysia (31.7 million euro, +5.6%), followed by Vietnam (21 million euro, +672.5%) and Indonesia (19.3 million euro, +130%).

Middle East increased its purchases of Italian machine tools by 6.3%, to 112 million euro. Exports went up in the United Arab Emirates (+4.8%, 26.1 million euro), in Israel (+23%, 23.8 million) and in Iran (+89.5%, 13.2 million euro). Deliveries were stationary in Saudi Arabia (-0.8%, 23.8 million euro). Sales to Oceania also grew (+24.1%), attaining 42.1 million euro.

Exports to **Africa** increased by 7%, to 109 million euro: they were driven by the positive trend of sales in Algeria (41.8 million euro, +8%), South Africa (15.4 million euro, +20.8%) and Morocco (12.9 million euro, +27.4%); on the contrary, there was a negative result with regard to Egypt (-19.8%).

The export analysis must take into account the situation created by the common currency: the sales in the countries of the Eurozone are an intermediate statistical figure between actual exports and deliveries in the domestic market. In this sense, in 2017 a share of 42% of the Italian production was delivered in the domestic market, 18% of the sales went to Eurozone countries and 40% was exported outside the Eurozone.

THE WORLD MACHINE TOOL INDUSTRY

The trend in 2017

In 2017, the world production of machine tools went up, (+6.4%) to almost 75,100 million euro. The total amount included the contributions of Asia (56%), Europe (36.1%) and the Americas (7.8%).

PRINCIPALI PAESI PRODUTTORI DI MACCHINE UTENSILI (milioni di euro, variazioni, quote)
MAJOR MACHINE TOOLS MANUFACTURING COUNTRIES (million euros, changes, shares)

	milioni di euro/million euros					variazione 2016/ 2016 change	variazione 2017/ 2017 change	quota 2016/ 2016 share	quota 2017/ 2017 share
	2013	2014	2015	2016	2017				
1. CINA/CHINA	18.577	18.360	19.910	21.101	21.705	6,0%	2,9%	29,9%	28,9%
2. GERMANIA/GERMANY	11.145	10.772	11.209	11.112	11.840	-0,9%	6,6%	15,7%	15,8%
3. GIAPPONE/JAPAN	8.326	10.260	11.009	10.027	10.521	-8,9%	4,9%	14,2%	14,0%
4. ITALIA/ITALY	3.997	4.320	4.689	5.018	5.491	7,0%	9,4%	7,1%	7,3%
5. STATI UNITI/UNITED STATES	4.503	4.073	5.325	4.236	4.395	-20,4%	3,7%	6,0%	5,9%
6. COREA SUD/SOUTH KOREA	3.996	4.227	4.287	4.013	4.296	-6,4%	7,0%	5,7%	5,7%
7. TAIWAN	3.416	3.623	3.691	3.355	3.798	-9,1%	13,2%	4,8%	5,1%
8. SVIZZERA/SWITZERLAND	2.367	2.736	2.838	2.637	2.993	-7,1%	13,5%	3,7%	4,0%
9. SPAGNA/SPAIN	937	878	940	941	1.001	0,1%	6,3%	1,3%	1,3%
10. INDIA	462	509	624	703	912	12,7%	29,7%	1,0%	1,2%
11. AUSTRIA	888	782	852	827	884	-2,9%	6,8%	1,2%	1,2%
12. CANADA	516	414	658	608	758	-7,5%	24,6%	0,9%	1,0%
13. FRANCIA/France	556	575	669	732	734	9,4%	0,2%	1,0%	1,0%
14. TURCHIA/TURKEY	596	568	596	587	653	-1,5%	11,3%	0,8%	0,9%
15. REGNO UNITO/UNITED KINGDOM	717	682	654	505	597	-22,7%	18,2%	0,7%	0,8%
16. BRASILE/BRAZIL	316	211	762	615	556	-19,3%	-9,5%	0,9%	0,7%
17. REP. CEC/ CZECH REP.	535	562	627	548	539	-12,6%	-1,7%	0,8%	0,7%
18. PAESI BASSI/THE NETHERLANDS	313	313	349	349	513	0,0%	47,1%	0,5%	0,7%
19. THAILANDIA/THAILAND	336	398	429	414	498	-3,4%	20,2%	0,6%	0,7%
20. RUSSIA	159	336	437	389	411	-11,1%	5,7%	0,6%	0,5%
21. BELGIO/BELGIUM	244	278	237	232	315	-2,1%	35,8%	0,3%	0,4%
22. POLONIA/POLAND	180	185	195	222	209	14,0%	-6,0%	0,3%	0,3%
23. MALAYSIA	127	215	151	149	159	-1,5%	6,6%	0,2%	0,2%
24. SVEZIA/SWEDEN	123	144	168	151	155	-10,0%	2,2%	0,2%	0,2%
25. FINLANDIA/FINLAND	139	140	134	137	136	2,2%	-0,9%	0,2%	0,2%
26. PORTOGALLO/PORTUGAL	87	84	129	129	135	0,0%	4,2%	0,2%	0,2%
27. MESSICO/MEXICO	106	108	124	99	116	-19,8%	17,1%	0,1%	0,2%
28. SLOVENIA	61	59	69	106	113	52,9%	6,1%	0,2%	0,1%
29. SLOVACCHIA/SLOVAKIA	117	141	152	137	107	-9,8%	-21,6%	0,2%	0,1%
30. AUSTRALIA	121	93	99	78	106	-20,9%	35,5%	0,1%	0,1%
31. CROAZIA/CROATIA	56	59	51	57	74	11,6%	29,8%	0,1%	0,1%
32. DANIMARCA/DENMARK	36	65	73	65	70	-11,6%	8,2%	0,1%	0,1%
33. INDONESIA	41	34	32	43	50	33,3%	17,8%	0,1%	0,1%
34. FILIPPINE/PHILIPPINES	23	32	21	21	43	1,9%	102,4%	0,0%	0,1%
35. BIELORUSSIA/BELARUS	36	56	35	43	38	25,1%	-12,0%	0,1%	0,1%
36. ISRAELE/ISRAEL	59	88	46	34	36	-27,1%	6,3%	0,0%	0,0%
37. UNGHERIA/HUNGARY	25	27	30	31	30	3,0%	-4,5%	0,0%	0,0%
38. VIETNAM	25	29	29	23	25	-20,7%	9,0%	0,0%	0,0%
39. NORVEGIA/NORWAY	24	24	24	19	21	-19,5%	10,5%	0,0%	0,0%
40. ROMANIA	38	30	29	27	19	-8,6%	-29,6%	0,0%	0,0%
41. SUD AFRICA/SOUTH AFRICA	17	18	16	14	11	-7,7%	-23,8%	0,0%	0,0%
42. ARGENTINA	27	10	29	7	8	-77,3%	24,6%	0,0%	0,0%
43. IRAN	5	6	6	5	7	-3,6%	25,9%	0,0%	0,0%
44. ARABIA SAUDITA/SAUDI ARABIA	7	6	6	9	5	47,6%	-48,4%	0,0%	0,0%
45. COLOMBIA	2	2	3	2	3	-38,2%	33,3%	0,0%	0,0%
46. KAZAKISTAN/KAZAKHSTAN	5	3	2	3	2	81,3%	-48,3%	0,0%	0,0%
47. CILE/CHILE	2	7	2	2	1	4,3%	-41,7%	0,0%	0,0%
48. EGITTO/EGYPT	0	0	2	1	0	-60,9%	-88,9%	0,0%	0,0%
49. EMIRATI ARABI UNITI/UNITED ARAB EMIRATES	-	-	-	-	-	n.s.	n.s.	0,0%	0,0%
50. ALGERIA	-	-	-	-	-	n.s.	n.s.	0,0%	0,0%
Totale mondiale/World total	64.389	66.541	72.448	70.565	75.086	-2,6%	6,4%		

Fonte/Source: elaborazioni su dati Gardner, ITC, Ras ri Nazionale/Elaborazioni su Gardner Publications, ITC, National Association data

PRINCIPALI PAESI CONSUMATORI DI MACCHINE UTENSILI (milioni di euro, variazioni, quote)
MAJOR MACHINE TOOLS CONSUMING COUNTRIES (million euros, changes, shares)

	milioni di euro/million euros					variazione 2016/ 2015 change	variazione 2017/ 2016 change	quota 2016/ 2015 share	quota 2017/ 2016 share
	2013	2014	2015	2016	2017				
1. CINA/CHINA	24.004	23.945	24.824	25.222	26.529	1,6%	5,2%	36,4%	36,6%
2. STATI UNITI/UNITED STATES	6.342	6.017	7.565	6.344	6.736	-16,1%	6,2%	9,2%	9,2%
3. GERMANIA/GERMANY	5.528	5.475	5.794	5.852	6.025	1,0%	3,0%	8,5%	8,2%
4. GIAPPONE/JAPAN	2.063	2.773	4.149	4.594	4.301	10,7%	-6,4%	6,6%	5,9%
5. ITALIA/ITALY	1.532	2.136	2.683	3.183	3.695	18,6%	16,1%	4,6%	5,1%
6. COREA SUD/SOUTH KOREA	3.431	3.675	3.444	3.294	3.411	-4,4%	3,6%	4,8%	4,7%
7. MESSICO/MEXICO	1.495	1.478	2.014	2.170	2.127	7,8%	-2,0%	3,1%	2,9%
8. INDIA	1.515	1.449	1.552	1.730	2.004	11,4%	15,8%	2,5%	2,7%
9. TAIWAN	1.247	1.352	1.474	1.390	1.579	-5,7%	13,6%	2,0%	2,2%
10. RUSSIA	1.562	1.782	1.519	1.188	1.382	-21,8%	16,3%	1,7%	1,9%
11. CANADA	1.061	913	1.251	1.085	1.261	-13,3%	16,2%	1,6%	1,7%
12. FRANCIA/France	789	764	994	1.041	1.114	4,6%	7,1%	1,5%	1,5%
13. TURCHIA/TURKEY	1.082	1.069	1.096	1.127	1.098	2,8%	-2,6%	1,6%	1,5%
14. SVIZZERA/SWITZERLAND	813	962	984	809	988	-17,8%	22,1%	1,2%	1,4%
15. VIETNAM	440	884	1.333	806	972	-39,5%	20,6%	1,2%	1,3%
16. THAILANDIA/THAILAND	1.562	1.478	1.124	926	905	-17,6%	-2,3%	1,3%	1,2%
17. REGNO UNITO/UNITED KINGDOM	774	810	839	685	700	-18,4%	2,2%	1,0%	1,0%
18. BRASILE/BRAZIL	1.096	729	1.180	768	698	-34,9%	-9,1%	1,1%	1,0%
19. POLONIA/POLAND	415	489	568	557	651	-1,9%	16,9%	0,8%	0,9%
20. AUSTRIA	540	452	593	644	650	8,5%	1,0%	0,9%	0,9%
21. SPAGNA/SPAIN	314	435	587	586	600	0,0%	2,3%	0,8%	0,8%
22. REP. Ceca/CZECH REP.	341	437	567	410	483	-27,6%	17,6%	0,6%	0,7%
23. INDONESIA	955	794	556	530	472	-4,7%	-10,9%	0,8%	0,6%
24. PAESI BASSI/THE NETHERLANDS	282	302	366	366	461	-0,1%	25,9%	0,5%	0,6%
25. MALAYSIA	449	456	446	371	433	-16,9%	16,8%	0,5%	0,6%
26. AUSTRALIA	284	237	264	274	296	3,5%	8,2%	0,4%	0,4%
27. BELGIO/BELGIUM	146	206	147	136	292	-7,1%	114,1%	0,2%	0,4%
28. PORTOGALLO/PORTUGAL	164	180	234	279	290	19,3%	3,7%	0,4%	0,4%
29. ROMANIA	194	207	282	224	263	-20,7%	17,8%	0,3%	0,4%
30. UNGHERIA/HUNGARY	261	224	246	242	233	-1,9%	-3,4%	0,3%	0,3%
31. SLOVACCHIA/SLOVAKIA	210	240	270	242	210	-10,3%	-13,4%	0,3%	0,3%
32. SLOVENIA	87	118	133	169	192	27,2%	13,8%	0,2%	0,3%
33. FILIPPINE/PHILIPPINES	94	90	166	132	191	-21,0%	44,9%	0,2%	0,3%
34. ARABIA SAUDITA/SAUDI ARABIA	244	249	256	211	161	-17,7%	-23,5%	0,3%	0,2%
35. IRAN	65	92	119	127	160	6,5%	25,6%	0,2%	0,2%
36. ISRAELE/ISRAEL	119	135	146	135	156	-7,5%	15,3%	0,2%	0,2%
37. SUD AFRICA/SOUTH AFRICA	208	157	169	138	152	-18,5%	10,3%	0,2%	0,2%
38. ALGERIA	116	170	190	171	147	-10,1%	-14,3%	0,2%	0,2%
39. SVEZIA/SWEDEN	169	140	173	166	145	-4,2%	-12,7%	0,2%	0,2%
40. CROAZIA/CROATIA	97	87	94	106	130	12,6%	21,9%	0,2%	0,2%
41. ARGENTINA	154	130	155	141	125	-8,9%	-11,2%	0,2%	0,2%
42. EMIRATI ARABI UNITI/UNITED ARAB EMIRATES	134	191	197	140	125	-29,2%	-10,8%	0,2%	0,2%
43. FINLANDIA/FINLAND	86	101	122	86	108	-29,5%	26,1%	0,1%	0,1%
44. EGITTO/EGYPT	80	71	86	71	76	-16,7%	6,0%	0,1%	0,1%
45. NORVEGIA/NORWAY	113	116	84	69	75	-17,3%	8,2%	0,1%	0,1%
46. DANIMARCA/DENMARK	46	83	87	83	71	-4,3%	-14,7%	0,1%	0,1%
47. BIELORUSSIA/BELARUS	182	183	73	72	62	-2,5%	-13,3%	0,1%	0,1%
48. KAZAKISTAN/KAZAKHSTAN	62	72	59	70	61	19,8%	-13,4%	0,1%	0,1%
49. CILE/CHILE	84	67	51	38	42	-26,0%	11,3%	0,1%	0,1%
50. COLOMBIA	71	67	68	47	42	-31,0%	-11,2%	0,1%	0,1%
Totale mondiale/World total	63.099	64.670	71.374	69.243	73.077	-3,0%	5,5%		

Fonte/Source: elaborazione su dati Gardner, ITC, Ass. Nazionali/elaboration on Gardner Publications, ITC, National Associations data

The world consumption grew by 5.5% versus 2016, reaching almost 73,100 million euro. The Asian market absorbed 56.7% of the total sales, whereas the European market acquired 27.3% and the American one 15.1%. The remaining share, accounting for less than one percent, was covered by other areas (Africa and Australia).

The leading countries

In 2017, **China** confirmed its world leadership. The Asian Giant was the first manufacturer (21,705 million euro, +2.9%) and the largest consumer (26,529 million euro, +5.2%), largely outpacing all other countries. The consumption share covered by imports went up to 29%, for a value of 7,737 million euro (+14%). Exports grew by 9.2% to 2,912 million euro. Despite this increase, China went down to fifth place in the world ranking of exporting countries.

German manufacturers confirmed their position in the world scenario. Increasing production (+6.6%) reached 11,840 million euro, allowing the country to maintain its second place in the world ranking. Thanks to the recovery of foreign sales, grown by 8.5% to 8,467 million euro, Germany confirmed its top position in the export ranking. The rise in domestic demand, up to 6,025 million euro, enabled the country to come in third in the consumption ranking. The German market ranked third also with regard to imports of machines from abroad: the import/consumption ratio stood at 44% and the value of imports amounted to 2,652 million euro.

With a 4.9% production increase, totalling 10,521 million euro, **Japan** came in third among manufacturing countries in 2017. Thanks to the strong upturn of foreign sales, grown by 11.1% to 6,932 million euro, the Land of the Rising Sun strengthened its second place among exporting countries. Ranking fourth among consumer countries, in 2017 Japan registered a demand drop, decreased by 6.4% to 4,301 million euro. The penetration of foreign machines is always very reduced: only 713 million euro, corresponding to 17% of the market.

Italy strengthened its fourth place among world manufacturing countries, thanks a 9.4% production increase, attaining 5,491 million euro. Sales abroad, up by 3.4% to 3,165 million euro ensured the country the third position among exporting countries again this year, behind Germany and Japan. Imports amounted to 1,369 million euro, with an 11.6% rise versus 2016. The 16.1%, consumption increase, corresponding to 3,695 million euro, enabled the country to obtain the fifth place in the international ranking of the sector.

With a turnover of 4,395 million euro, i.e. 3.7% more than in the previous year, **the United States** ranked fifth among machine tool manufacturing countries. Among the leading countries, the USA reported the highest penetration of imports that covered 71% of consumption. The import value, amounting to 4,755 million euro, ensured the country the second place in the ranking of importing countries, after China. Even in terms of consumption, the US market confirmed to be the second largest worldwide, with 6,736 million euro.

In 2017, **South Korean** production increased by 7%, to 4,296 million euro. Even exports registered a considerable upturn (+13.9%, 2,071 million euro); a positive trend was also recorded with regard to imports, grown by 7.9% to 1,186 million euro. Consumption expanded, reaching 3,411 million euro, i.e. 3.6% more than in 2016. Thanks to this result, the country turned out to be the sixth world market for machine tools. Imports covered 35% of consumption.

Taiwan reported a significant production growth (+13.2%) for an amount of 3,798 million euro. An analogous trend was observed with regard to exports, increased by 13.1% to 2,959 million euro, ensuring the country the fourth place in the world export ranking, ahead of China.

Machine tool production in **Switzerland** went up to 2,993 million euro (+13.5%). An 84% share of the machines was sold abroad, for a total of 2,504 million euro, which confirms the country's sixth place in the world ranking of exporting countries.

The other countries

Mexico was the seventh global market also in 2017, with a consumption of 2,127 million euro (-2%). Imports reached the value of 2,116 million euro, covering 99% of the demand. The national production is estimated at 116 million euro.

India ranked eighth among consumer countries, with 2,004 million euro (+15.8%). Production amounted to 912 million euro, whereas imports totalled 1,251 million euro (sixth absolute value).

Russia came in tenth position in the markets ranking, with a machine tool consumption of 1,382 million (+16.3%). Imports increased by 21% to 1,024 million euro, whereas local production, definitely small in absolute terms, went up to 411 million euro (+5.7%). Propensity to import stood at 74%.

Machine tool consumption in **Canada** attained 1,261 million euro (+16.2%): the country became the eleventh world market. A 63% share of consumption was covered by imports: with 790 million euro of imported machine tools, Canada ranked fourteenth in the world ranking of importing countries.

In 2017, the **French market** grew by 7.1%, to 1,114 million euro, which brought the country to twelfth place in the global ranking. Production was stationary (+0.2%), amounting to 734 million euro. On the contrary, imports went up (+4.7%), totalling 925 million euro.

With a value of 1,098 million euro (-2.6%), **Turkey** went down to thirteenth place among consumer countries. However, local production increased to 653 million euro (+11.3%) and imports amounted to 879 million euro (-6.4%).

PRINCIPALI PAESI ESPORTATORI DI MACCHINE UTENSILI (milioni di euro, variazioni, quote)
MAJOR MACHINE TOOLS EXPORTING COUNTRIES (million euros, changes, shares)

	milioni di euro/million euros					variazione 2016/ 2016 change	variazione 2017/ 2017 change	quota 2016/ 2016 share	quota 2017/ 2017 share
	2013	2014	2015	2016	2017				
1. GERMANIA/GERMANY	7.816	7.610	7.907	7.803	8.467	-1,3%	8,5%	21,6%	21,4%
2. GIAPPONE/JAPAN	6.845	8.148	7.689	6.237	6.932	-18,9%	11,1%	17,3%	17,5%
3. ITALIA/ITALY	3.190	3.073	3.199	3.062	3.165	-4,3%	3,4%	8,5%	8,0%
4. TAIWAN	2.658	2.823	2.865	2.618	2.960	-8,6%	13,1%	7,2%	7,5%
5. CINA/CHINA	2.153	2.555	2.852	2.666	2.912	-6,5%	9,2%	7,4%	7,4%
6. SVIZZERA/SWITZERLAND	2.054	2.284	2.412	2.287	2.504	-5,2%	9,5%	6,3%	6,3%
7. STATI UNITI/UNITED STATES	2.426	2.386	2.645	2.422	2.414	-8,4%	-0,3%	6,7%	6,1%
8. COREA SUD/SOUTH KOREA	1.698	1.732	2.109	1.818	2.071	-13,8%	13,9%	5,0%	5,2%
9. BELGIO/BELGIUM	761	802	867	928	1.078	7,0%	16,2%	2,6%	2,7%
10. SPAGNA/SPAIN	864	776	771	835	905	8,3%	8,3%	2,3%	2,3%
11. AUSTRIA	726	713	687	605	684	-12,0%	13,1%	1,7%	1,7%
12. PAESI BASSI/THE NETHERLANDS	346	401	360	349	656	-3,0%	87,9%	1,0%	1,7%
13. REP. Ceca/CZECH REP.	572	614	665	581	578	-12,6%	-0,6%	1,6%	1,5%
14. FRANCIA/France	486	529	515	575	544	11,7%	-5,3%	1,6%	1,4%
15. REGNO UNITO/UNITED KINGDOM	601	622	630	567	519	-10,1%	-8,3%	1,6%	1,3%
16. TURCHIA/TURKEY	345	344	423	399	435	-5,6%	8,9%	1,1%	1,1%
17. THAILANDIA/THAILAND	276	326	351	339	412	-3,6%	21,5%	0,9%	1,0%
18. CANADA	194	202	224	258	287	15,0%	11,2%	0,7%	0,7%
19. POLONIA/POLAND	213	201	208	240	263	15,6%	9,5%	0,7%	0,7%
20. SVEZIA/SWEDEN	186	213	232	199	218	-14,3%	9,6%	0,5%	0,6%
21. BRASILE/BRAZIL	149	112	118	176	206	49,4%	16,9%	0,5%	0,5%
22. INDIA	123	114	166	155	159	-6,9%	3,1%	0,4%	0,4%
23. MALAYSIA	143	199	137	137	147	0,0%	7,5%	0,4%	0,4%
24. FINLANDIA/FINLAND	134	115	105	121	122	15,3%	1,6%	0,3%	0,3%
25. SLOVACCHIA/SLOVAKIA	105	123	131	116	121	-10,9%	4,2%	0,3%	0,3%
26. DANIMARCA/DENMARK	73	78	87	86	108	-0,8%	24,6%	0,2%	0,3%
27. MESSICO/MEXICO	98	74	89	86	105	-3,5%	22,0%	0,2%	0,3%
28. SLOVENIA	71	63	76	90	103	18,1%	15,5%	0,2%	0,3%
29. AUSTRALIA	55	57	48	46	69	-4,8%	50,1%	0,1%	0,2%
30. RUSSIA	60	67	44	47	53	7,3%	12,9%	0,1%	0,1%
31. PORTOGALLO/PORTUGAL	46	49	48	42	45	-14,3%	8,0%	0,1%	0,1%
32. ROMANIA	49	38	43	37	38	-13,1%	2,2%	0,1%	0,1%
33. EMIRATI ARABI UNITI/UNITED ARAB EMIRATES	20	10	23	24	36	4,9%	53,2%	0,1%	0,1%
34. INDONESIA	14	12	11	15	35	33,3%	128,9%	0,0%	0,1%
35. FILIPPINE/PHILIPPINES	12	21	15	15	32	1,3%	111,3%	0,0%	0,1%
36. CROAZIA/CROATIA	16	21	20	22	29	12,1%	30,5%	0,1%	0,1%
37. ISRAELE/ISRAEL	52	60	34	25	28	-25,7%	11,0%	0,1%	0,1%
38. UNGHIERA/HUNGARY	17	19	23	23	28	1,8%	21,3%	0,1%	0,1%
39. BIELORUSSIA/BELARUS	61	41	26	29	26	10,9%	-9,5%	0,1%	0,1%
40. VIETNAM	15	20	18	21	24	16,6%	13,7%	0,1%	0,1%
41. SUD AFRICA/SOUTH AFRICA	23	23	24	23	22	-4,2%	-4,9%	0,1%	0,1%
42. NORVEGIA/NORWAY	18	17	19	17	16	-10,3%	-1,2%	0,0%	0,0%
43. IRAN	3	4	4	2	6	-53,7%	231,6%	0,0%	0,0%
44. ARGENTINA	16	4	13	3	4	-76,7%	20,0%	0,0%	0,0%
45. KAZAKISTAN/KAZAKHSTAN	4	2	1	3	4	163,6%	20,7%	0,0%	0,0%
46. COLOMBIA	2	2	4	2	4	-41,7%	66,7%	0,0%	0,0%
47. ARABIA SAUDITA/SAUDI ARABIA	1	1	1	1	4	83,3%	218,2%	0,0%	0,0%
48. CILE/CHILE	2	7	2	3	3	8,3%	-3,8%	0,0%	0,0%
49. EGITTO/EGYPT	0	0	2	0	1	-95,7%	700,0%	0,0%	0,0%
50. ALGERIA	0	0	0	0	0	n.s.	n.s.	0,0%	0,0%
Totale mondiale/World total	35.793	37.707	38.940	36.152	39.578	-7,2%	9,5%		

Fonte/Source: elaborazione su dati Gardner, ITC, Asuni Nazionali/Laboration on Gardner Publications, ITC, National Associations data

