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32.BI-MU: DIGITAL TECHNOLOGIES FOR SUSTAINABLE PRODUCTION

From 14 to 17 October 2020, the Exhibition Centre of fieramilano Rho will be the stage for the 32nd edition of BI-MU, the most important Italian trade show dedicated to the industry of metal forming and metal cutting machine tools, additive manufacturing, robots, digital manufacturing and automation, enabling technologies and subcontracting. The only exhibition in Italy with real international appeal.

Promoted by UCIMU-SISTEMI PER PRODURRE, the Italian machine tools, robots and automation systems manufacturers' association, and organised by EFIM-ENTE FIERE ITALIANE MACCHINE, **32.BI-MU de facto represents the very first event for the sector in 2020 after the lockdown.**

In the first part of the year, all trade fair events dedicated to the sector were cancelled or postponed. On the contrary, BI-MU has confirmed its date, thus becoming the first real meeting occasion for the operators of the sector in 2020.

With **350 exhibiting companies**, 30% of which from abroad, two exhibition halls and a large and varied technological product offering, 32.BI-MU intends, - also through a large number of in-depth meetings on schedule - to illustrate **the digital transformation taking place in the factories**, thanks to the spread of state-of-the-art machine tools and systems, according to the approach 4.0.

Data management, interconnection of machines, predictive maintenance, servitisation, collaborative robots, additive manufacturing are among the technological issues making up the focus of **the exhibition, which will be an opportunity to reaffirm the strength of our country in the international scenario of the sector, which always considers this biennial trade show as one of its leading events.**

In addition, numerous initiatives – some of them innovative and never seen before - will complement the proposal of 32.BI-MU.

After the success of the past edition, again this year, BI-MU will combine its exhibition with an in-depth cultural and thematic analysis, developed through a programme of side events hosted in the **BI-MUpiù** arena in Hall 9, which will give voice to Exhibitors, offering them a special stage to present their new products.

A great novelty of the 2020 edition is **BI-MUpiùDigital**, a demonstration space set up in Hall 11 and conceived to highlight the potential of a digital factory.

Finally, with **BI-MUonline**, the event will continue after the four exhibition days. A virtual version of the real trade show, BI-MUonline will feature the technological product offering on display, from the exhibitors' real voice on the website bimu.it. Starting from the two weeks after the event and until the 2022 edition, the virtual exhibition will propose videos, video clips and interviews directly collected at the stands.

32.BI-MU IN FULL RESPECT OF ANTI-COVID PROTOCOLS.

Particular care has been taken over the definition of all organisation details, developed in full respect of health safety regulations, in order to ensure a safe and comfortable visit and stay for the attending operators within the exhibition halls. As a confirmation of this, according to the scheme “Let’s Start Again Together in Safety”, **a Compliance Certification has been released by ICIM SpA.**, a third-party certification agency, in favour of EFIM ENTE FIERE ITALIANE MACCHINE, which is organising the event.

32.BI-MU is thus the first exhibition to obtain this certification as a confirmation of the organisers’ strictness and care in implementing effective measures within the Exhibition Centre to combat and contain the spread of Covid-19.

The service developed by ICIM for production organisations has the aim of providing a scheme of application to identify and carry out actions to ensure the respect of regulatory protocols of measures to combat and contain the spread of Covid-19 in workplaces, in compliance with the legal provisions, while protecting the health of employees and business continuity. The service has been extended to include the specific requirements related to the exhibition sector.

This certification is added to the ISO 9001:2015 certification of CEU-Centro Esposizioni UCIMU, which (since 2008) emphasizes the attention dedicated by the companies of UCIMU Group to the issue of quality in the management of trade fair events.



After the success of the past edition, again in 2020, BI-MU will combine its exhibition with an in-depth cultural and thematic analysis, thanks to the programme of side events hosted in the **BI-MU più arena**.

An area set up within one of the exhibition halls (Hall 9 A44-B25), **BI-MU più arena** will host meetings arranged by experts, organisers and exhibitors. The latter will thus have the possibility to present their novelties outside their stands.

Organised in different themed areas - **Machine Tools, Fabbricafutura, Consulting and Startup, Robotplanet, Sustainable Economy, Additive Manufacturing, Finishing and Treatments, Subcontracting** – the meetings will take place throughout the whole trade show.



More than **40 meetings are scheduled** in the four days of the trade show, which can be attended in person or remotely, thanks to the **live streaming** service available on the website bimu.it.

The key players of these events will also and chiefly be the Exhibitors, who will have a special stage at their disposal to present their new products. In addition to these 20-minute meetings, there will be several institutional meetings arranged by the organisers, with speeches of authoritative experts and representatives of the manufacturing world.

Promoted by Fondazione UCIMU, the initiative is carried out with the contribution of the Lombardy Region.

The programme of meetings is available in the following pages. Possible updates will be available directly on bimu.it in the page dedicated to events.

PAD/HALL 9
area A44/B25

10.30	10.50	<p>CONVEGNO INAUGURALE</p>		<p>Le tecnologie per la manifattura nei prossimi cinque anni (a cura di CFI)</p>	<p>La robotica in Italia e nel mondo (a cura di S.R.)</p>	<p>Mandelli Sistemi (MindSphere World Italia) Il sistema PumpPredict per la manutenzione predittiva</p>
10.55	11.15					
11.20	11.40	<p>BI-MU LOGISTICS "Conoscere per risparmiare le basi di un investimento a lungo termine per il magazzino" In collaborazione con INTRALOGISTICA ITALIA e AISEM federata ANIMA</p>		<p>Fanuc NEW CRX - Tecnologie collaborative Uomo-Macchina</p>	<p>PS Mobile Aumenta le potenzialità delle tue macchine con servizi digitali a valore aggiunto</p>	<p>40 Factory (MindSphere World Italia)</p>
11.45	12.05					
12.10	12.30					
12.35	12.55	<p>Marpossi Italia Monitoraggio della produzione e manutenzione preventiva</p>		<p>Hiwin Robotica e Meccatronica, Hiwin al tuo servizio</p>	<p>EXPOPLANNING—LE FIERE DEL 2021 Press/Oscillamniche</p>	<p>Gerardi</p>
13.00	13.20					
13.25	13.45	<p>Vecton Technologies Ruolo chiave della VR/AR nel miglioramento della produttività, derivazione delle vendite, riduzione dei costi industriali, e del time to market</p>		<p>Siemens in attesa di invio modulo</p>	<p>Prima Additive Additive Manufacturing: innovazione e crescita</p>	<p>Ricerca Chimica Corrosione su acciaio inox: prevenzione e rimedi</p>
13.50	14.10					
14.15	14.35					
14.40	15.00	<p>Siemens Presentazione Linea di indirizzo: "La sicurezza nelle tecnologie additive per pezzi, fusione o sinterizzazione a letto di polvere" (a cura di INA, L e AITA)</p>		<p>Sciegia Indeva Soluzione di Robotica collaborativa</p>	<p>Ambiente Italia Progetti Green Desk one-stop-shop per efficienza energetica e sostenibilità industriale</p>	<p>Novagum Trattamenti superficiali (lucidatore)</p>
15.05	15.25					
15.30	15.50	<p>Reclaim Innovazione e standard per strategie di economia circolare per grandi meccanismi industriali - il progetto europeo Reclaim (a cura di UNI)</p>		<p>Rittal/Epain Digitalizzare la produzione con ritmi - come gestire da remoto le funzionalità dei sistemi di climatizzazione</p>	<p>PREM UCIUM</p>	<p>PREM UCIUM</p>
15.55	16.15					
16.20	16.40	<p>Engineering Ingegneria Informatica L'importanza della qualità come IOT nel contesto manifatturiero</p>		<p>Orchestra Come rendere sostenibile INDUSTRY 4.0 per il PV</p>	<p>PREMIO MAESTRO DELLA MECCANICA MAESTRO</p>	<p>PREMIO MAESTRO DELLA MECCANICA</p>
16.45	17.05					
17.10	17.30	<p>Eco Certificazioni Industria 4.0</p>		<p>Fridle Le tenute che fanno girare il mondo</p>		

MACCHINE UTENSILI
MACHINE TOOLS

FINITURA E TRATTAMENTI
FINISHING AND TREATMENTS

ECONOMIA SOSTENIBILE
SUSTAINABLE ECONOMY

ADDITIVE MANUFACTURING

FABBRICAFUTURA
ROBOTICS

SUBFORNITURA
SUBCONTRACTING

CONSULTING

THE MEETINGS ARRANGED BY THE ORGANISERS

INAUGURAL CONFERENCE

WEDNESDAY 14 OCTOBER, 11.00 am, BI-MUpiù AREA

Organisation by UCIMU-SISTEMI PER PRODURRE. Speakers: **Enrico Pazzali**, president of Fondazione Fiera Milano, **Carlo Bonomi**, president of Fiera Milano Spa, **Attilio Fontana**, president of the Lombardy Region (invited), **Carlo Ferro**, president of ICE-Italian Trade Agency (invited), **Barbara Colombo**, president of UCIMU-SISTEMI PER PRODURRE, **Gian Maria Gros-Pietro**, professor and business economist, **Manlio Di Stefano**, undersecretary of State at the Ministry of Foreign Affairs and International Cooperation.

PRESENTATION OF THE GUIDELINES “SAFETY IN ADDITIVE TECHNOLOGIES FOR METALS. POWDER- BED FUSION OR SINTERING”

THURSDAY 15 OCTOBER, 14.15-15.00 pm, BI-MUpiù AREA

Developed by AITA-ITALIAN ASSOCIATION OF ADDITIVE TECHNOLOGIES and INAIL (National Institute for Insurance against Accidents at Work), the guidelines are intended for employers, end users and for those who operate in the field of machinery safety and experience the application of additive manufacturing in work contexts. Thanks to the partnership with INAIL, these guidelines not only have an information value, but they also represent a real point of reference to identify the specific hazards related to equipment adopting additive technologies.

SIRI: ROBOTICS IN ITALY AND IN THE WORLD

FRIDAY 16 OCTOBER, 10.30-11.15 pm, BI-MUpiù AREA

Presentation of updated data regarding robotics in Italy and in the world in 2019.

Speakers: **Domenico Appendino**, president of SIRI, Italian Robotics and Automation Association, **Stefania Pigozzi**, “Economic Studies Department & Business Culture” manager - UCIMU-SISTEMI PER PRODURRE, **Alessandro Santamaria**, IFR Executive Board Member.

UCIMU AWARDS

SATURDAY 17 OCTOBER, 14.15-15.25 pm, BI-MUpiù AREA

Promoted by FONDAZIONE UCIMU, the initiative of UCIMU AWARDS, launching its 44th edition, represents one of the most long-lasting projects promoted by the association and, without doubt, one of the richest in content and meaning.

UCIMU-SISTEMI PER PRODURRE has always been at the forefront in making the most of the enormous potential that young people may express in the creation of innovation. In particular, UCIMU AWARDS give value to Bachelor’s and Master’s degree theses related to topics of interest for the machine tool and mechanical manufacturing sector, mainly emphasizing those developed at the associate member companies. Speakers: **Barbara Colombo**, president of UCIMU-SISTEMI PER PRODURRE, **Alessandro Mattinzoli**, chair of the Economic Development Committee, Lombardy Region (invited), **Alfredo Mariotti**, general manager of UCIMU-SISTEMI PER PRODURRE.

“MASTER OF MECHANICS” AWARDS CEREMONY

SATURDAY 17 OCTOBER, 15.30-16.15 pm, BI-MUpiù AREA

Prize-giving ceremony of MASTER OF MECHANICS AWARDS 2020. Master of Mechanics is an initiative aimed at awarding those who contributed and are still contributing to the evolution of the Italian mechanical industry by means of discoveries, inventions, product and process solutions, development of machines and rationalisation of company organisation, systems for the safety of workers and respect for the environment. Established by Fondazione UCIMU in 2010 and awarded every year, since its first edition “Master of Mechanics” received the Medal of the Presidency of the Italian Republic for the value and content of the initiative.

The initiative is promoted by UCIMU-SISTEMI PER PRODURRE and organised with the support of Tecnologie Meccaniche.

BI-MU^{più}Additive

BI-MU^{più}Additive is the area set up in Hall 9 C32 by AITA-ITALIAN ASSOCIATION OF ADDITIVE TECHNOLOGIES. In this space dedicated to illustrate the industrial applications of additive manufacturing, some components are exhibited, which can be referred to the mechanics, automotive, aerospace and biomedical sectors, developed thanks to machinery that today can be defined as “machine tools of the third kind”.

BI-MU^{più}Digital

A great novelty of BI-MU 2020 is **BI-MU^{più}Digital**, a dedicated area set up in Hall 11 E38 to highlight the potential of a digital factory and the opportunities for machinery interconnection.

Promoted by **FONDAZIONE UCIMU** and by the MindSphere World Italia Association, which provides the platform, **BI-MU^{più}Digital** is an information and demonstration area, gathering machine tool manufacturers and players of the information technologies field, to emphasize the closer and closer integration between the two worlds, according to the approach 4.0.

FICEP, JOBS, MANDELLI SISTEMI, MCM, BIGLIA, PRIMA ADDITIVE, RETTIFICATRICI GHIRINGHELLI, MACHINEN WAGNER WERKZEUGMASCHINEN are the machine tool manufacturers that took part in this initiative.

40 FACTORY, ENGINEERING INGEGNERIA INFORMATICA, CT Innovation, IPUM@SUITE BY MANDELLI, MIRAITEK, ORCHESTRA, PS MOBILE, RITTAL-EPLAN, SOFTEAM are the players of the ICT world involved in the project.

Four demonstrative cases are analysed in the area:

1. Increase in the availability of machines, activated by notifications regarding machinery malfunctions and prediction about the end of the product-processing cycle.
2. Reduction in the maintenance time through analysis regarding the wear of machine components and traceability of the use of single machine components in relation to each single processing.
3. Optimisation of planning and production costs through an estimation of production time and calculation of resources consumption for each single processing.
4. Energy saving and green production by a rational use of resources and reduction of carbon dioxide production.

The BI-MU^{più}Digital area also includes a corner called “Meet the Expert”, where visitors can meet expert technicians available for a first-level consulting.



BI-MUonline is the innovative and original project of 32.BI-MU that implies the digitalisation of the exhibition and its entry into an online platform. With BI-MUonline, the event will actually continue after the four exhibition days.

A virtual version of the real trade show, BI-MUonline will feature the technological product offering on display, from the exhibitors' real voice on the website bimu.it. Starting from the two weeks after the event and until the 2022 edition, the virtual exhibition will propose videos, video clips and interviews directly collected at the stands.

In this way, the organisers of BI-MU intend to offer the exhibiting companies a further and prolonged opportunity for visibility free of charge. The BI-MUonline initiative will indeed be promoted through newsletters regularly sent to visitors' and exhibitors' mailing lists and by the social media of the exhibition.

“BLUE PHILOSOPHY” FOR THE ENTERPRISES WITH UCIMU MARK



The way of planning and developing the whole range of products largely depends on machine tools. Their manufacturers have to make available eco-friendly production systems, enabling their end users to exploit resources rationally, while reducing the use of energy, raw materials and means.

Therefore, the companies authorized to use the UCIMU mark, as a distinctive sign testifying the most qualified Italian production, have long undertaken to manufacture machine tools capable of ensuring environmental sustainability in their production cycle.

This commitment translates to a real philosophy, the “Blue Philosophy”, attested by the UCIMU mark. Indeed, starting from 1st January 2011, the concern for environmental issues has become a criterion for the assignment of the UCIMU mark, in addition to commercial reliability, financial soundness, highest attention to safety and functional tests, “customer care”.

The UCIMU mark is legally registered and assigned to the associate member companies of UCIMU-SISTEMI PER PRODURRE that are capable of showing - by rigorous and comprehensive tests (regularly repeated) - company characteristics that no other certification model takes into consideration at the same time.

The enterprises authorized to use the "UCIMU Blue Philosophy" mark are easily recognizable, since they display an identification banner at their stands. The UCIMU stand (Hall 9 B28 C25) is dedicated to these companies.



32.BI-MU and Consulting Services

Thanks to the **Box Consulting** initiative, a first-level consulting service will be at the disposal of the operators attending 32.BI-MU, provided by some partners and consultants at the stand of UCIMU (Hall 9 B28 C25) or of Probest Service (Hall 11 F41).

PROBEST SERVICE

A service firm belonging to the group of UCIMU-SISTEMI PER PRODURRE, Probest Service offers services for companies, constantly updated according to the evolution of the context with regard to:

Cybersecurity – The best solutions are proposed against cyber risks (cyberattacks, industrial espionage, company data protection) and problems that may arise following the introduction of smart working, besides clarifications regarding the European vision and the regulatory processes in force (CYBER SECURITY ACT), consistently with the future obligations/certifications and opportunities/calls for bids.

Certification of Skills – In the sector of capital equipment, having a high intensity of innovation and technology, the preparation of workforce is an enabling factor of the whole production. For this reason, an accurate evaluation and a continuous monitoring of the employees' skills and performances is a useful tool for the companies intending to evaluate employees in the hiring phase and/or their internal staff to change tasks.

Fonderia Saturn for grey/spheroidal cast-iron – Agent company on an exclusive basis for grey/spheroidal iron castings produced by FONDERIA SATURN S.A., an Italian-owned foundry, offering technical-commercial support, besides consulting and collection of requirements to manufacture new products.

GFINANCE FOR FACILITATED FINANCING

For information and consulting services with regard to calls for bids/requests for proposals and public subsidies, non-repayable grants, tax incentives 4.0 for the digital transformation of enterprises.

EUFIDIA

A firm specialising in the management of leases and financing tools.

EASYFRONTIER

Specialising in consulting with regard to customs issues and integrated solutions, origin of goods management, dual use analysis, customs classification, assistance with customs simplifications, authorised exporter, in-house customs clearance, AEO authorisation.

QSA CERTIFICATION

For consulting concerning the technical regulations, certification procedures and specific importer's and manufacturer's in the Russian Federation market and in the countries of the Eurasian Economic Union - EurAsEc (Russia, Belarus, Kazakhstan, Armenia, Kirghizstan).

DE DOMINICIS & MAYER

For consulting on issues regarding patent, trademark, design, copyrights protection.

STUDIO IMPEX

For consulting on the new procedures for exporting dual and non-dual products and technologies, related regulations and problems concerning secondary sanctions.

GOLDEN CARD: MUCH MORE THAN A FREE-ADMISSION CARD

The admission to BI-MU is, as usual, free of charge. The admission card is the Golden Card, which, besides admission to 32.BI-MU, offers **several discounts and special rates at “partner” hotels, restaurants and shops**, all of them listed on www.golden-card.it.

THE ITALIAN MACHINE TOOL MANUFACTURING INDUSTRY

THE FINAL RESULTS 2019

In 2019 the Italian machine tool manufacturing industry ranked **fourth among manufacturing countries and fourth among exporting countries**, overtaken by China that stole its historical third place. On the contrary, the fifth position in the ranking of consumer countries remained unchanged, as a confirmation of the relevance of the Italian market in the international scenario.

According to the final data processed by the Economic Studies Department & Business Culture of UCIMU, in **2019, the output of machine tools only (i.e. excluding robotics and automation), amounted to 5,890 million euro, registering a 3.8% fall versus 2018**. The outcome was mainly due to the reduction of **deliveries by manufacturers to the domestic market, decreased by 6.5% to 2,526 million euro**. A smaller downturn was reported with regard to **exports, totalling 3,364 million euro, i.e. 1.7% less** than in the previous year.

In 2019, the main export markets for the Italian product offering were the United States (421 million euro, +19%), Germany (376 million euro, -4.7%), China (303 million euro, -11%), France (234 million euro, +2.8%), Poland (173 million euro, -24.5%), Spain (144 million euro, -0.1%), Russia (119 million euro, +19.4%), India (99 million euro, +17.4%).

Consumption showed a 7.5% decline, reaching 3,970 million euro, interrupting the growing trend recorded over the last four years.

THE FORECASTS 2020

Heavily hit by the health crisis broken out in the first months of the year, in 2020, the Italian industry of the sector has been experiencing a strong reduction for all main economic indicators.

Based on the forecasts elaborated by the Economic Studies Department & Business Culture of UCIMU, the **output of machine tools only should drop by 34.6% to 3,850 million euro. Exports should go down by 27.2% to 2,450 million euro.**

In particular, according to UCIMU processing of ISTAT data, in the period January-June 2020, the main markets of destination for the Italian supply were: USA (152 million euro, -18.2%), Germany (113 million euro, -39%), China (105 million euro, -36.4%), France (73 million euro, -39%), Spain (48.6 million euro, -28.4%).

The collapse of domestic consumption, expected to fall by 43.3% to 2,250 million euro, will have a strong impact on the deliveries of Italian manufacturers in the domestic market, whose value should not exceed 1,400 million euro, corresponding to 44.6% less than in 2019. At the end of the year, there will also be a strong import decrease, which should account for a value of 850 million euro, corresponding to 41.1% less than in the previous year.

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 2018/ 2018 change	variazione 2019/ 2019 change	quota 2018/ 2018 share	quota 2019/ 2019 share
	2015	2016	2017	2018	2019				
1. CINA/CHINA	19.910	21.101	21.705	19.865	17.347	-8,5%	-12,7%	25,7%	23,9%
2. GERMANIA/GERMANY	11.209	11.112	11.810	12.571	12.500	6,4%	-0,6%	16,2%	17,2%
3. GIAPPONE/JAPAN	11.010	10.026	10.501	11.258	10.519	7,2%	-6,6%	14,5%	14,5%
4. ITALIA/ITALY	4.689	5.018	5.491	6.125	5.890	11,5%	-3,8%	7,9%	8,1%
5. STATI UNITI/UNITED STATES	5.318	4.681	5.170	5.267	5.362	1,9%	1,8%	6,8%	7,4%
6. COREA SUD/SOUTH KOREA	4.287	4.171	4.426	4.359	3.994	-1,5%	-8,4%	5,6%	5,5%
7. TAIWAN	3.691	3.355	3.797	3.985	3.528	5,0%	-11,5%	5,1%	4,9%
8. SVIZZERA/SWITZERLAND	2.838	2.637	2.912	3.355	2.867	15,2%	-14,5%	4,3%	3,9%
9. SPAGNA/SPAIN	940	941	1.128	1.143	1.101	1,3%	-3,6%	1,5%	1,5%
10. AUSTRIA	852	827	930	1.051	1.068	13,0%	1,6%	1,4%	1,5%
11. INDIA	624	703	885	1.178	1.058	33,1%	-10,2%	1,5%	1,5%
12. FRANCIA/FRANCE	669	732	736	739	861	0,4%	16,5%	1,0%	1,2%
13. REGNO UNITO/UNITED KINGDOM	656	563	554	622	612	12,3%	-1,6%	0,8%	0,8%
14. BRASILE/BRAZIL	762	615	556	497	605	-10,6%	21,7%	0,6%	0,8%
15. CANADA	562	644	716	548	600	-23,5%	9,4%	0,7%	0,8%
16. TURCHIA/TURKEY	596	587	652	567	586	-13,0%	3,4%	0,7%	0,8%
17. RUSSIA	437	389	516	520	574	0,7%	10,3%	0,7%	0,8%
18. REP. CECA/CZECH REP.	627	548	536	620	570	15,6%	-8,1%	0,8%	0,8%
19. TAILANDIA/THAILAND	413	418	508	596	505	17,5%	-15,3%	0,8%	0,7%
20. PAESI BASSI/THE NETHERLANDS	349	229	279	304	340	8,8%	11,9%	0,4%	0,5%
21. BELGIO/BELGIUM	237	232	293	315	320	7,5%	1,6%	0,4%	0,4%
22. POLONIA/POLAND	195	237	256	283	281	10,5%	-0,4%	0,4%	0,4%
23. SLOVACCHIA/SLOVAKIA	156	135	145	188	182	29,7%	-2,9%	0,2%	0,3%
24. FINLANDIA/FINLAND	134	137	156	162	169	3,8%	4,3%	0,2%	0,2%
25. Malesia/MALAYSIA	168	164	175	206	153	17,7%	-25,7%	0,3%	0,2%
26. SVEZIA/SWEDEN	168	151	136	140	143	2,6%	1,8%	0,2%	0,2%
27. MESSICO/MEXICO	124	99	116	133	115	14,9%	-13,4%	0,2%	0,2%
28. AUSTRALIA	99	83	125	180	106	44,2%	-41,2%	0,2%	0,1%
29. SLOVENIA	68	83	97	66	89	-31,6%	34,7%	0,1%	0,1%
30. ISRAELE/ISRAEL	48	35	39	47	88	21,2%	87,6%	0,1%	0,1%
31. PORTOGALLO/PORTUGAL	129	129	135	83	83	-38,5%	0,2%	0,1%	0,1%
32. DANIMARCA/DENMARK	73	65	71	79	78	10,6%	-1,1%	0,1%	0,1%
33. CROAZIA/CROATIA	51	56	73	67	62	-7,9%	-7,3%	0,1%	0,1%
34. INDONESIA	33	44	99	34	59	-65,9%	73,9%	0,0%	0,1%
35. BULGARIA	39	43	42	39	46	-7,1%	17,0%	0,1%	0,1%
36. UNGHERIA/HUNGARY	34	35	42	47	45	11,4%	-3,6%	0,1%	0,1%
37. ROMANIA	43	37	38	57	44	48,9%	-22,1%	0,1%	0,1%
38. VIETNAM	27	31	36	38	41	6,7%	5,5%	0,0%	0,1%
39. SUD AFRICA/SOUTH AFRICA	25	23	22	24	28	13,5%	13,1%	0,0%	0,0%
40. UCRAINA/UKRAINE	15	14	11	17	17	52,8%	3,0%	0,0%	0,0%
41. FILIPPINE/PHILIPPINES	15	15	32	32	16	0,3%	-51,3%	0,0%	0,0%
42. NORVEGIA/NORWAY	19	17	16	10	13	-40,2%	33,7%	0,0%	0,0%
43. ARGENTINA	29	7	22	1	0	-95,0%	-90,9%	0,0%	0,0%
44. EGITTO/EGYPT	2	1	0	0	0	-	-	0,0%	0,0%
45. EMIRATI ARABI UNITI/UNITED ARAB EMIRATES	0	0	0	0	0	-	-	0,0%	0,0%
46. MAROCCO/MOROCCO	1	1	1	0	0	-	-	0,0%	0,0%
47. ARABIA SAUDITA/SAUDI ARABIA	6	9	5	0	0	-	-	0,0%	0,0%
48. SERBIA	0	0	0	0	0	-	-	0,0%	0,0%
49. ALGERIA	0	0	0	0	0	-	-	0,0%	0,0%
50. IRAN	6	5	7	0	0	-	-	0,0%	0,0%
Totale mondiale/World total	72.379	71.184	75.995	77.415	72.663	1,9%	-6,1%		

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

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 2018/ 2018 change	variazione 2019/ 2019 change	quota 2018/ 2018 share	quota 2019/ 2019 share
	2015	2016	2017	2018	2019				
1. GERMANIA/GERMANY	7.907	7.802	8.554	9.033	8.257	5,6%	-8,6%	21,1%	20,4%
2. GIAPPONE/JAPAN	8.068	6.629	7.253	7.799	7.094	7,5%	-9,0%	18,2%	17,5%
3. CINA/CHINA	2.852	2.666	2.897	3.400	3.945	17,4%	16,0%	7,9%	9,7%
4. ITALIA/ITALY	3.199	3.062	3.165	3.423	3.364	8,1%	-1,7%	8,0%	8,3%
5. TAIWAN	2.865	2.618	2.960	3.094	2.740	4,5%	-11,4%	7,2%	6,8%
6. SVIZZERA/SWITZERLAND	2.412	2.287	2.501	2.848	2.410	13,9%	-15,4%	6,6%	5,9%
7. STATI UNITI/UNITED STATES	2.645	2.423	2.416	2.492	2.150	3,1%	-13,7%	5,8%	5,3%
8. COREA SUD/SOUTH KOREA	2.109	1.818	2.071	2.211	2.075	6,7%	-6,1%	5,2%	5,1%
9. BELGIO/BELGIUM	867	928	1.099	1.236	1.100	12,5%	-11,0%	2,9%	2,7%
10. SPAGNA/SPAIN	771	835	901	976	924	8,3%	-5,3%	2,3%	2,3%
11. AUSTRIA	651	581	654	764	778	16,8%	1,9%	1,8%	1,9%
12. PAESI BASSI/THE NETHERLANDS	360	349	430	460	749	6,9%	62,9%	1,1%	1,8%
13. FRANCIA/FRANCE	517	576	546	559	629	2,5%	12,5%	1,3%	1,6%
14. REGNO UNITO/UNITED KINGDOM	630	567	541	595	606	10,0%	1,9%	1,4%	1,5%
15. REP. CECA/CZECH REP.	665	581	580	698	576	20,4%	-17,4%	1,6%	1,4%
16. TURCHIA/TURKEY	423	399	435	495	504	13,8%	1,9%	1,2%	1,2%
17. TAILANDIA/THAILAND	351	339	412	483	409	17,4%	-15,3%	1,1%	1,0%
18. POLONIA/POLAND	208	240	252	290	288	15,1%	-0,7%	0,7%	0,7%
19. CANADA	224	258	286	219	240	-23,4%	9,6%	0,5%	0,6%
20. SVEZIA/SWEDEN	232	199	218	219	218	0,5%	-0,7%	0,5%	0,5%
21. SLOVACCHIA/SLOVAKIA	131	116	138	156	153	13,4%	-2,2%	0,4%	0,4%
22. INDIA	166	155	159	143	144	-10,4%	1,0%	0,3%	0,4%
23. MALESIA/MALAYSIA	137	137	146	173	129	18,9%	-25,7%	0,4%	0,3%
24. FINLANDIA/FINLAND	105	121	122	128	113	4,9%	-11,7%	0,3%	0,3%
25. DANIMARCA/DENMARK	87	86	105	108	106	3,2%	-1,5%	0,3%	0,3%
26. MESSICO/MEXICO	89	86	105	110	103	4,3%	-6,1%	0,3%	0,3%
27. BRASILE/BRAZIL	118	176	206	127	92	-38,3%	-27,8%	0,3%	0,2%
28. RUSSIA	44	47	53	68	75	26,6%	11,5%	0,2%	0,2%
29. SLOVENIA	57	70	81	56	75	-31,6%	34,7%	0,1%	0,2%
30. PORTOGALLO/PORTUGAL	48	41	45	62	65	37,4%	3,9%	0,1%	0,2%
31. ISRAELE/ISRAEL	34	25	28	34	64	22,1%	87,7%	0,1%	0,2%
32. AUSTRALIA	48	46	69	99	58	44,3%	-41,3%	0,2%	0,1%
33. BULGARIA	40	44	48	42	47	-12,0%	10,8%	0,1%	0,1%
34. ROMANIA	43	37	38	56	43	49,1%	-23,8%	0,1%	0,1%
35. SUD AFRICA/SOUTH AFRICA	25	23	21	24	28	14,0%	13,1%	0,1%	0,1%
36. UNGHERIA/HUNGARY	25	37	24	28	26	15,6%	-7,4%	0,1%	0,1%
37. CROAZIA/CROATIA	20	22	29	27	25	-8,0%	-7,2%	0,1%	0,1%
38. VIETNAM	18	21	26	24	23	-5,5%	-3,7%	0,1%	0,1%
39. SERBIA	13	15	18	17	21	-1,7%	20,1%	0,0%	0,1%
40. INDONESIA	11	15	34	12	20	-65,8%	73,3%	0,0%	0,0%
41. EMIRATI ARABI UNITI/UNITED ARAB EMIRATES	23	31	19	18	19	-3,8%	5,6%	0,0%	0,0%
42. UCRAINA/UKRAINE	15	14	11	17	17	52,8%	3,0%	0,0%	0,0%
43. FILIPPINE/PHILIPPINES	15	15	32	32	16	-0,3%	-51,3%	0,1%	0,0%
44. NORVEGIA/NORWAY	19	17	16	10	13	-40,2%	33,7%	0,0%	0,0%
45. IRAN	4	6	7	9	9	23,0%	-5,5%	0,0%	0,0%
46. MAROCCO/MOROCCO	1	2	1	6	5	433,3%	-18,8%	0,0%	0,0%
47. ARGENTINA	13	3	4	2	5	-38,9%	118,2%	0,0%	0,0%
48. ARABIA SAUDITA/SAUDI ARABIA	1	1	4	2	2	-61,4%	5,9%	0,0%	0,0%
49. EGITTO/EGYPT	2	0	1	1	1	-37,5%	140,0%	0,0%	0,0%
50. ALGERIA	0	0	0	0	0	50,0%	-66,7%	0,0%	0,0%
Totale mondiale/World total	39.305	36.564	39.757	42.883	40.550	7,9%	-5,4%		

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

THE WORLD MACHINE TOOL INDUSTRY

THE WORLD CONSUMPTION FORECASTS 2021

On the other hand, the forecasts elaborated (in October 2020) by the Oxford Economics Econometric Institute show a strong recovery of investment in production technologies all over the world already from 2021.

In 2021, the world demand for machine tools should grow to 60.9 billion euro (+18.4%).

The positive trend should constantly continue also in the following three years: 65.1 billion euro in 2022 (+6.9%), 68 billion euro in 2023 (+4.5%), 70.5 billion euro in 2024 (+3.6%).

With a 23.5% consumption increase, attaining 16.6 million euro, in 2021, Europe will become the most dynamic area in comparison to the rest of the world. However, it is necessary to consider that Europe is also the area that suffered the most in the two-year period 2019-2020.

As far as Italy is concerned, after the heavy downswing registered in the two years 2019-2020, in 2021, machine tool consumption should start again to grow, achieving 3.1 billion euro, i.e. 38.2% more than in 2020.