

ELITE

112 SOFT TOUCH · 220 SUPERFAST



ELITE 112 - 220

The ELITE is an automatic bar feeder for diameters from 0.8 to 12.7 mm (Elite 112 Soft Touch) and from 2 to 23 mm (Elite 220 Superfast), suitable for sliding headstock lathes.



A HISTORY OF SUCCESS

People, Skills, Innovations and Investments
have made IEMCA the Worldwide LEADER



The **first IEMCA bar feeder**, model A, is officially presented at Milan's Trade Show.

IEMCA develops the CS 110 for sliding headstock lathes: it is the **first** bar feeder able to work **bars of 0.8 mm** diameter.

IEMCA launches the first bar feeder in the world for multi-spindle turning machines equipped with a revolutionary patent: the "double bar pusher" or "**pre-feeding**".

IEMCA BOSS is born and defines the market standard: it is the **first** bar feeder with full **electronic control**.

IEMCA develops SIR: the first integral bar feeder for multi-spindle turning machines equipped with **guide channels of variable diameter**, thanks to the use of "sprockets" (IEMCA patent).

IEMCA expands its range of products for **small diameter bars**, adding the CH model.

IEMCA presents ELITE to the market, the bar feeder for small diameter bars destined to become the **benchmark for micromechanics**.



MODEL A



1966



MODEL CS



1971



PRA



1979



BOSS



1991



SIR



1994



CH



1995



ELITE



2007



1961

ESTABLISHMENT



4

PRODUCTION PLANTS



550

EMPLOYEES



+120.000

INSTALLATIONS



90

COUNTRIES

IEMCA launches the SUPERFAST platform which reduces the bar changeover time up to **37%** and reduces the headstock idle times to **zero**.



BOSS HD SUPERFAST

IEMCA is the first bar feeder manufacturer in the world which is able to provide **Industry 4.0** technology: warning messages in case of alarm, telecontrol, teleservice, remote connection with other systems, etc.



INDUSTRY 4.0

The SIR Heavy Duty is the perfect combination of: **minimisation** of machine life cycle costs, extreme **flexibility** and **productivity** maximization.



SIR HEAVY DUTY

IEMCA launches on the market MAESTRO® 80 NO LIMITS, an automatic bar feeder able to support bars from **10 to 80 mm** to work with fixed headstock lathes, ideal for those who require high performances combined with flexibility.



MAESTRO® 80 NO LIMITS

IEMCA launches the first bar feeder in the world for micromechanics, capable of loading **0.3 mm bars**.



ELITE ZERO

IEMCA launches UNIQA 42: the machine tool for **preparing bars** with a diameter of 12 – 42 mm.



UNIQA 42 HIGH PERFORMANCE

IEMCA designs a unique machine: the **first multi-spindle bar feeder** with sliding headstock, aimed to support the **DMG MORI MULTISPRINT** multi-spindle lathes.



NEXT 42 SLIDING

2013

2016

2017

2018

2018

2018

2020

CONTENTS

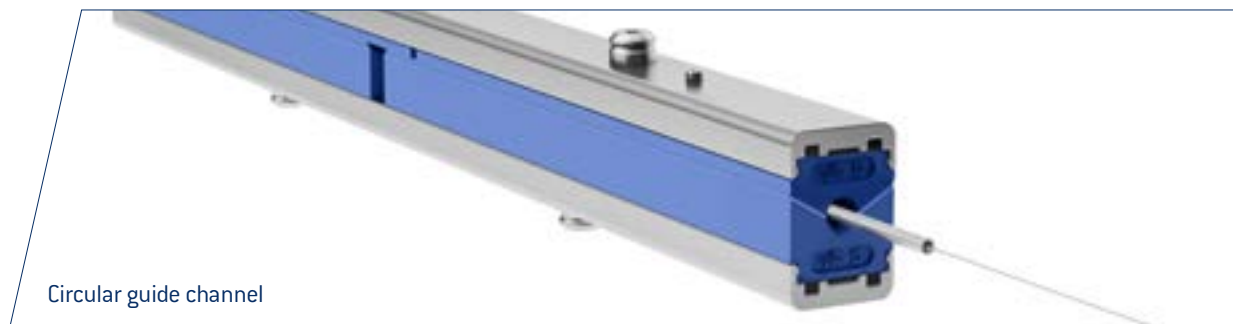
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CONSTANT INVESTMENTS IN RESEARCH

To be always Pioneers in automation

- IEMCA has always been working to develop innovative solutions for the end users and to improve its products in terms of productivity, design, physical and cognitive ergonomics.
- It employs globally 50 engineers dedicated to the product development: mechanical and electronic designers, software developers and dedicated staff for experimental tests in R&D laboratories.
- It has over 30 active patents for its bar feeders.
- It cooperates with the best Italian Universities and Research Centres in the territory.
- It is the technical partner and reference point for all those OEMs who want to provide the best technological solutions to their customers.



INNOVATIVE SOLUTIONS



50 DESIGNERS



30 ACTIVE PATENTS



RESEARCH CENTERS



TECHNICAL PARTNER

50+ YEARS OF EXPERIENCE WITH SMALL DIAMETER BARS

First in the world to feed 0.3 mm bars

In 2018 IEMCA was the first company in the world to supply a solution for automatically feeding 0.3 mm diameter bars.

Ø 3 mm

Ø 0,3 mm



A

AS

CS

CH

GENIUS

ELITE

ELITE ZERO

1966

1967

1971

1995

1997

2007

2018



THE LARGE IEMCA FACTORY

Competences for the Industry of the Future

The ELITE is made in the IEMCA plant in Faenza, Emilia Romagna, Italy. It is the biggest bar feeder plant in the world with an available surface area of more than 25,000 sq.m. More than 200 people work in this location everyday to develop new innovative technologies to support end users.



THE BEST FOR SMALL-DIAMETER BARS

Precision, speed and ease of use



The ELITE is a premium bar feeder, simple to use, precise and fast. It has been designed to meet the needs of those looking for high performance and reliability, accurate selection of thin bars, versatility at changing of machining and guaranteed rigidity even for the most challenging machining operations.

MAXIMUM PRECISION

The best way to process ultra- thin bars

ELITE can be used to machine with maximum reliability thin bars (of diameter as small as 0.8 mm - Elite 112 Soft Touch), thanks to the selection system and the innovative trolley fitted with ball bearings mounted on a linear guide, which guarantee maximum accuracy. Thanks to its features, it carries out with high precision and smoothness all phases of the work cycle, from bar feeding to unloading of the remnant piece.

- The bar selection system is very accurate and allows bars of diameter as small as 0.8 mm to be fed with maximum reliability.
- The new “Right Length” electronic control system guarantees that no incorrectly sized pieces (longer/ shorter compared to specifications) are produced.
- The “Full Digital” technology allows very small-diameter, light bars to be managed with extreme accuracy. Thanks to the low inertia motor, equipped with an encoder with over 4 million pulses per revolution, the high performance torque control and highest quality mechanics, even bars of just a few grams of weight are easily managed.



NO SPEED LIMIT

Get the best from your lathe by choosing IEMCA

The ELITE has been developed to maximize productivity and it allows to easily reach the highest bar rotation speed allowed by the lathe in any configuration.

Maximum turning speed

Very high turning speeds (up to 20,000 rpm) are easily reached without vibrations, thanks to:

- High rigidity of the bar feeder.
- A circular, completely closed, polyurethane guide channel with calibrated section.
- The anti-vibration bushing device that guarantees maximum support for the rotating bar*.

The mechanical synchronisation between the headstock and the bar pusher perfectly synchronises the movements between the lathe and the bar feeder, thus eliminating any risk of bending the bar and adapting to even the fastest headstocks.

Idle times reduced to a minimum

- The application of the Superfast Technology means substantial reduction of lathe idle times, therefore increasing production rates by 4%**.
- Bar changeover time*** is now reduced to just 20 seconds thanks to a new work cycle and new components.
- Headstock idle times due to the synchronisation between the lathe and the bar feeder, have been reduced to nothing****.

*Only Elite 220 Superfast / **For an estimate of the production rate increase for your specific case, contact your IEMCA sales agent.

*** See technical data / ****Consistently with the lathe characteristics.



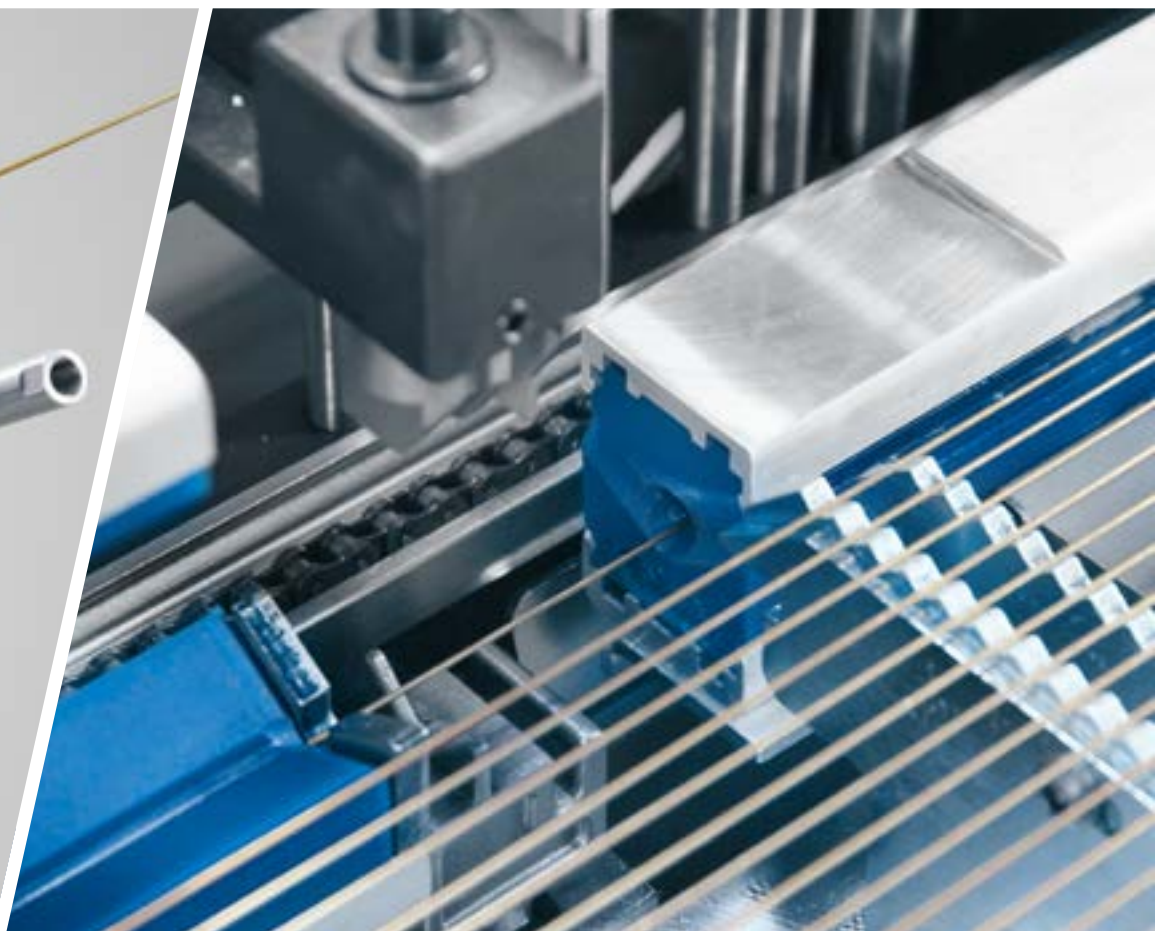
Mechanical synchronism between the bar feeder and the lathe

NO SPEED LIMIT

Get the best from your lathe by choosing IEMCA



Mechanical synchronism



Completely closed guide channel

EASE OF USE

Especially designed with a focus on the operator, from bar feeding to machining changeover

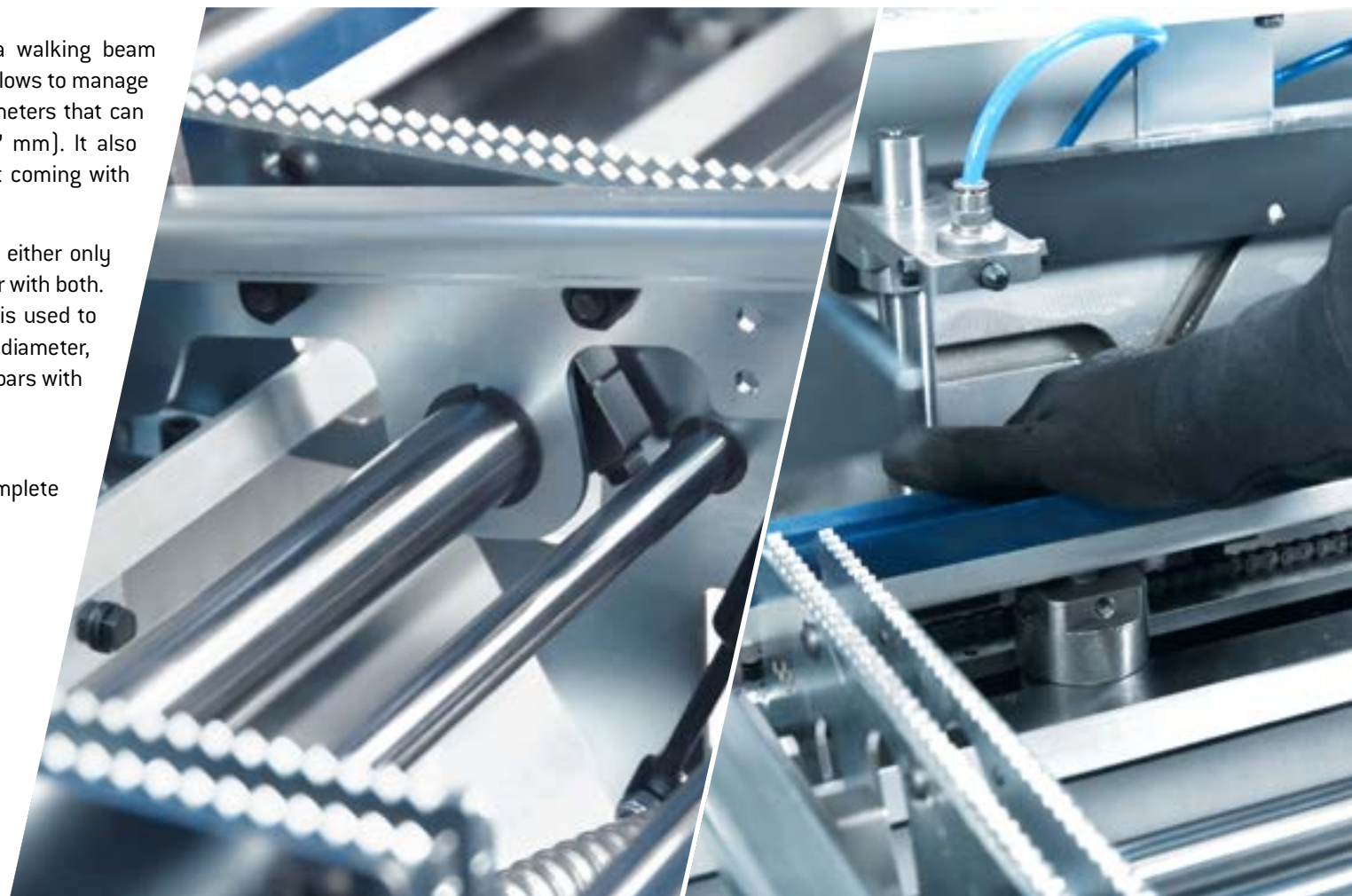
A magazine for every need

The ELITE 112 Soft Touch is equipped with a walking beam magazine, the ideal solution for thin bars as it allows to manage with extreme accuracy the entire range of diameters that can be processed with the bar feeder (0.8 to 12.7 mm). It also guarantees great autonomy. The “thin bars” kit coming with the magazine, makes feeding of thin bars easier.

The ELITE 220 Superfast can be equipped with either only the walking beam or the single rack magazine, or with both. In the latter case, the walking beam magazine is used to manage bars measuring between 2 and 6 mm in diameter, whereas the 280 mm inclined plane is used for bars with greater diameters up to 23 mm.

Simple, fast retooling

The quick-coupling guide channel allows to complete retooling in just 4 minutes, in a simple fast way.



Walking beam magazine and single rack magazine

Quick-coupling guide channel

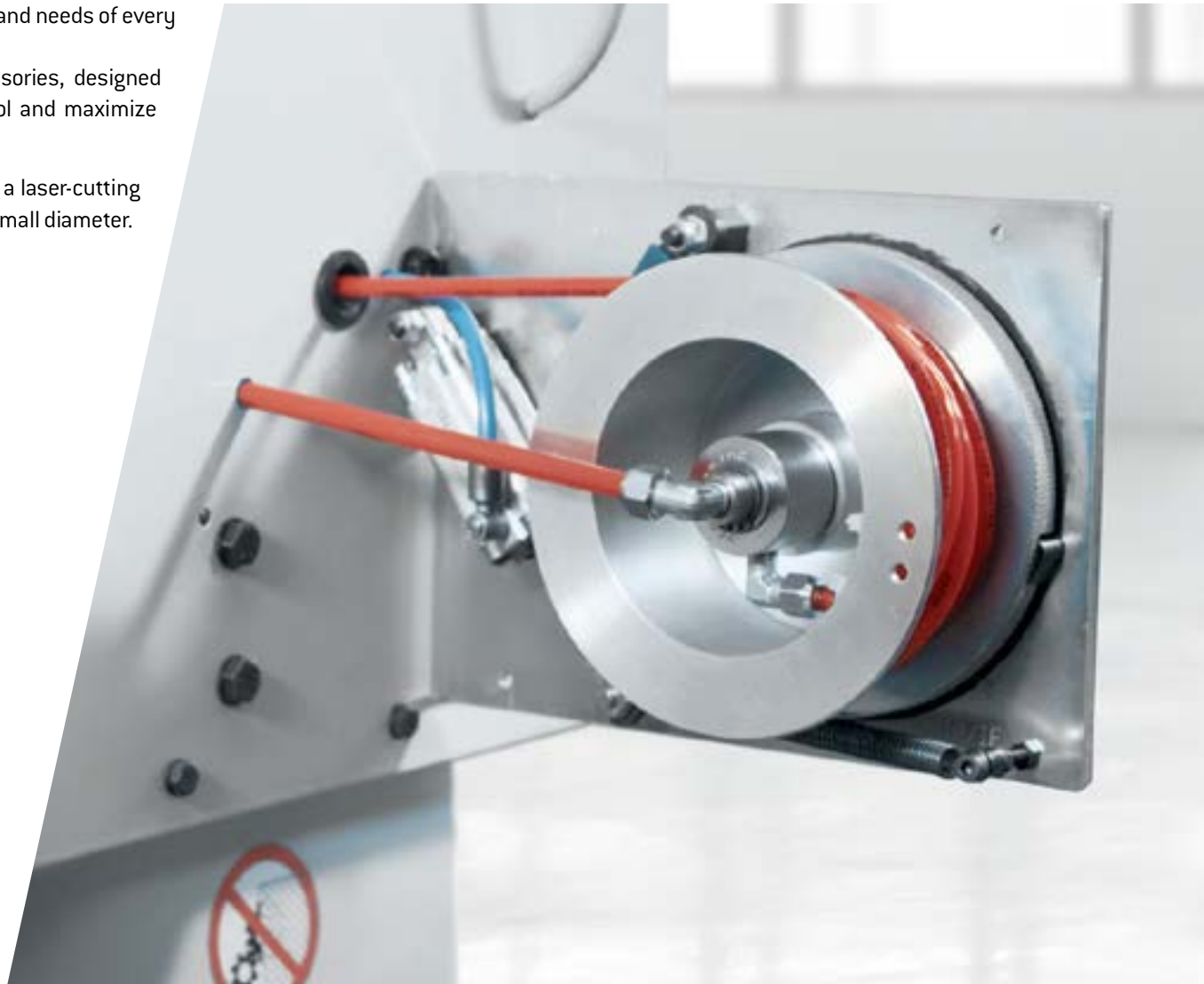
PERSONALISED SOLUTIONS

A magazine for every need

IEMCA offers customised solutions that meet the requirements and needs of every customer.

The bar feeder is equipped with a set of personalised accessories, designed for specific applications and used to support the machine tool and maximize performance.

ELITE Wet is the ideal solution for sliding headstock lathes with a laser-cutting unit. It can be used to process with high precision pipes of very small diameter.



7" OPERATOR INTERFACE

"One touch" function

The new operator interface has new features that make the machine extremely easy to use and intuitive. The "one touch" feature facilitates the operator: it is in fact possible to carry out multiple operations with just one touch. Work programs can be stored and easily recalled if needed. The bar feeder interface can be re-installed on the lathe control panel.



IEMCA INDUSTRY 4.0

The future is now

In January 2017 IEMCA was the first bar feeder manufacturer to deliver Industry 4.0 machines.

IEMCA devices are able to acquire and share data with the user's machines and production systems, contributing to the constant improvement of production processes.

The **IEMCA Industry 4.0** solution includes:



Email and SMS notification in the event of an alarm on the machine



Telecontrol and remote control



Global remote assistance on all equipment



Back-up and restore of machine parameters



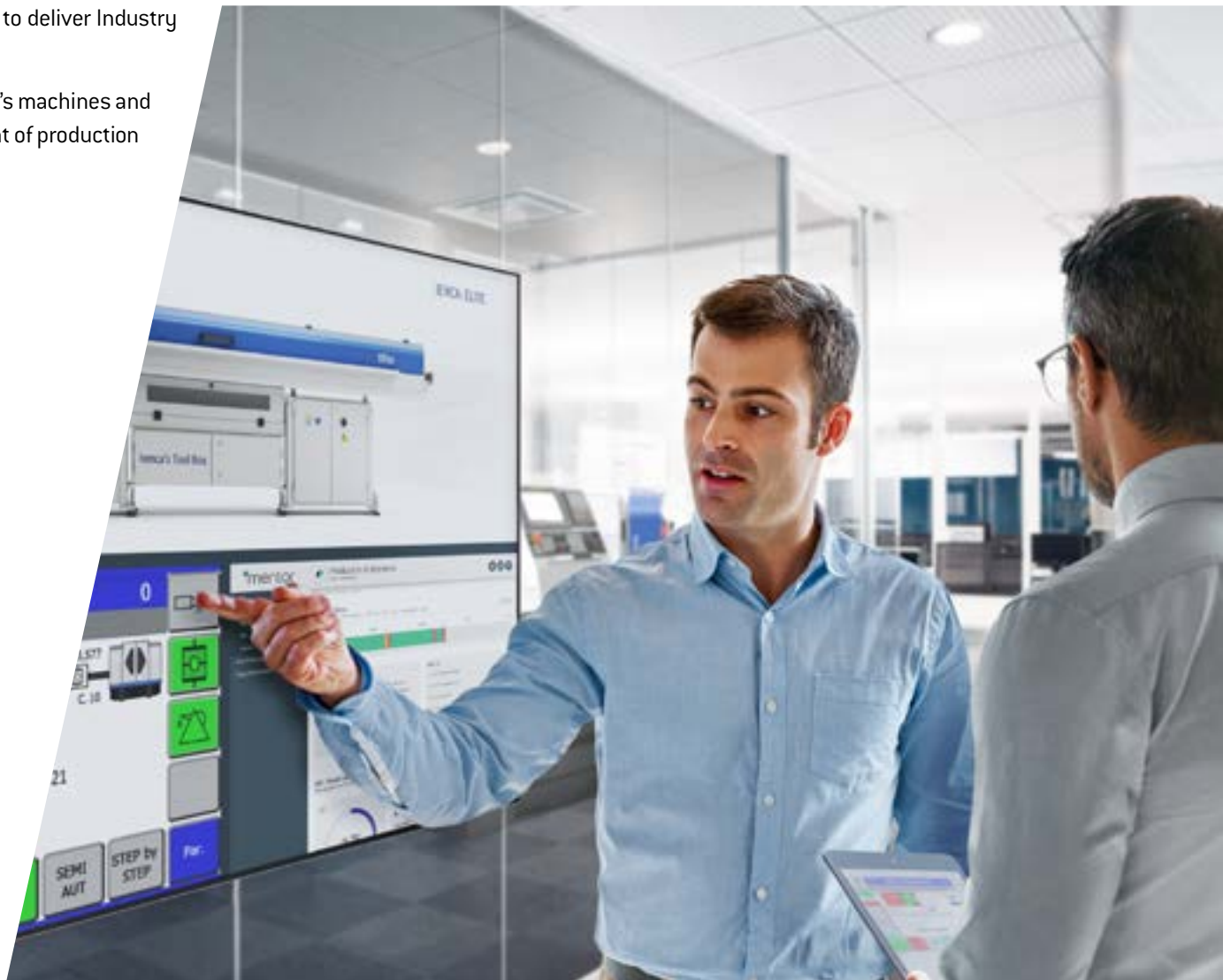
Telecontrol via OPC UA clients



Telecontrol with camera

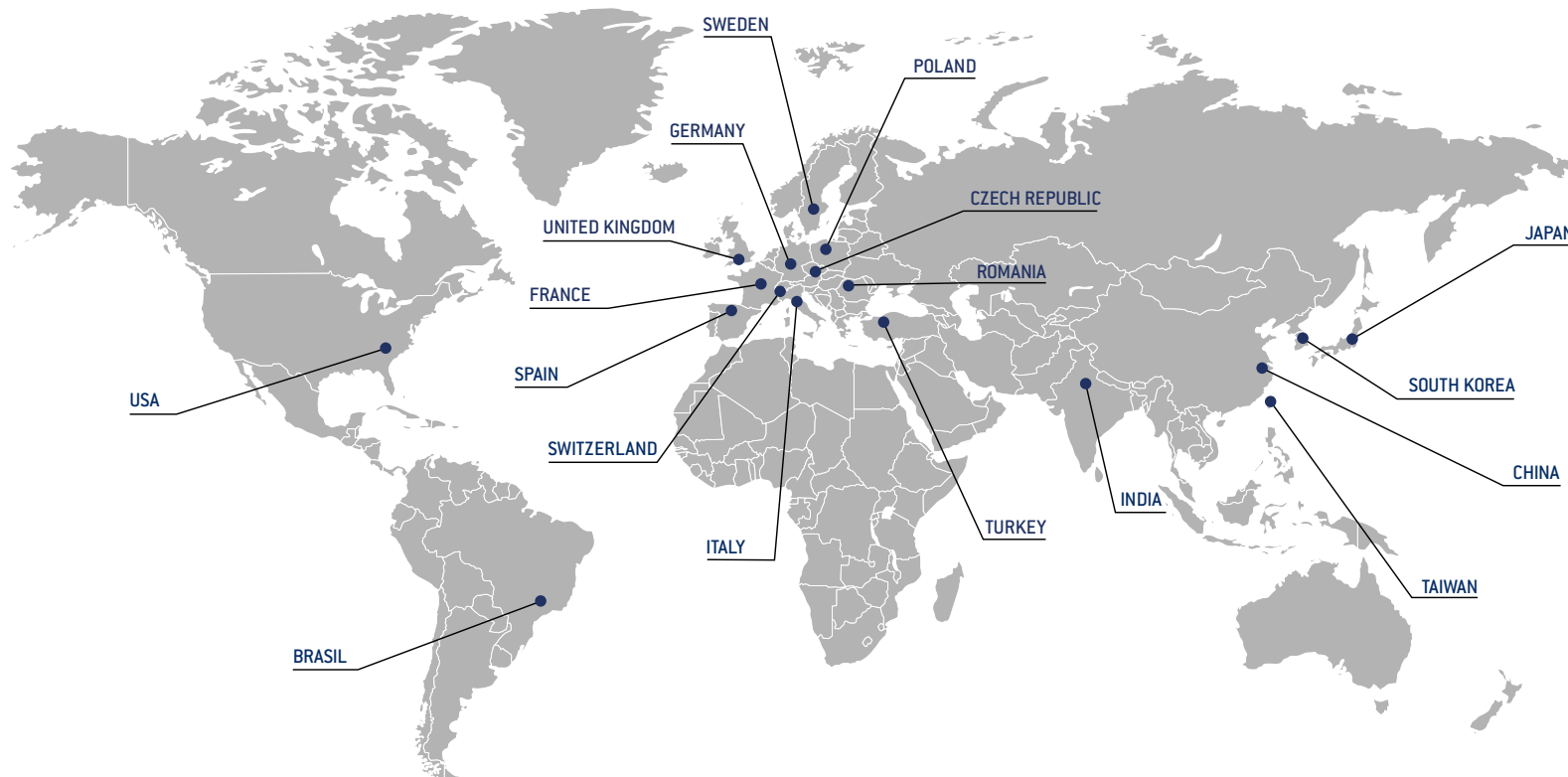


Remote control and local remote control



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IEMCA SUPPORTS YOU KEEPING YOUR MACHINE AT 100%

WORLDWIDE LEVEL SUPPORT

IEMCA customers can count on the support of more than 150 technicians for prompt intervention on site, phone support and spare parts.

Preventive maintenance: IEMCA technical experts support the end user keeping the bar feeder healthy for years.

Recommended spare parts: the end user can contact the IEMCA network and get convenient and original spare parts packages.



TECHNICAL DATA



ROUND BARS

Elite 112: 0.8-12.7 mm
Elite 220: 2-23 mm



NO. SPINDLES

1



INSTALLED POWER

1.8 kW



HEXAGONAL BARS

Elite 112: 1.5-11 mm
Elite 220: 1.7-19 mm



BAR LENGTH

450 - 3700 mm



OPERATING VOLTAGE

230/400 Volt



WALKING BEAM MAGAZINE

37 bars $\emptyset \leq 6$ mm
18 bars $\emptyset \leq 12.7$ mm



REMNANT LENGTH

Min. 80 mm; Max. 280 mm



FEEDING SPEED

Max 1000 mm/s



MP MAGAZINE:

Up to 280 mm



BAR CHANGEOVER TIME

20 s



RETURN SPEED

Max 1600 mm/s



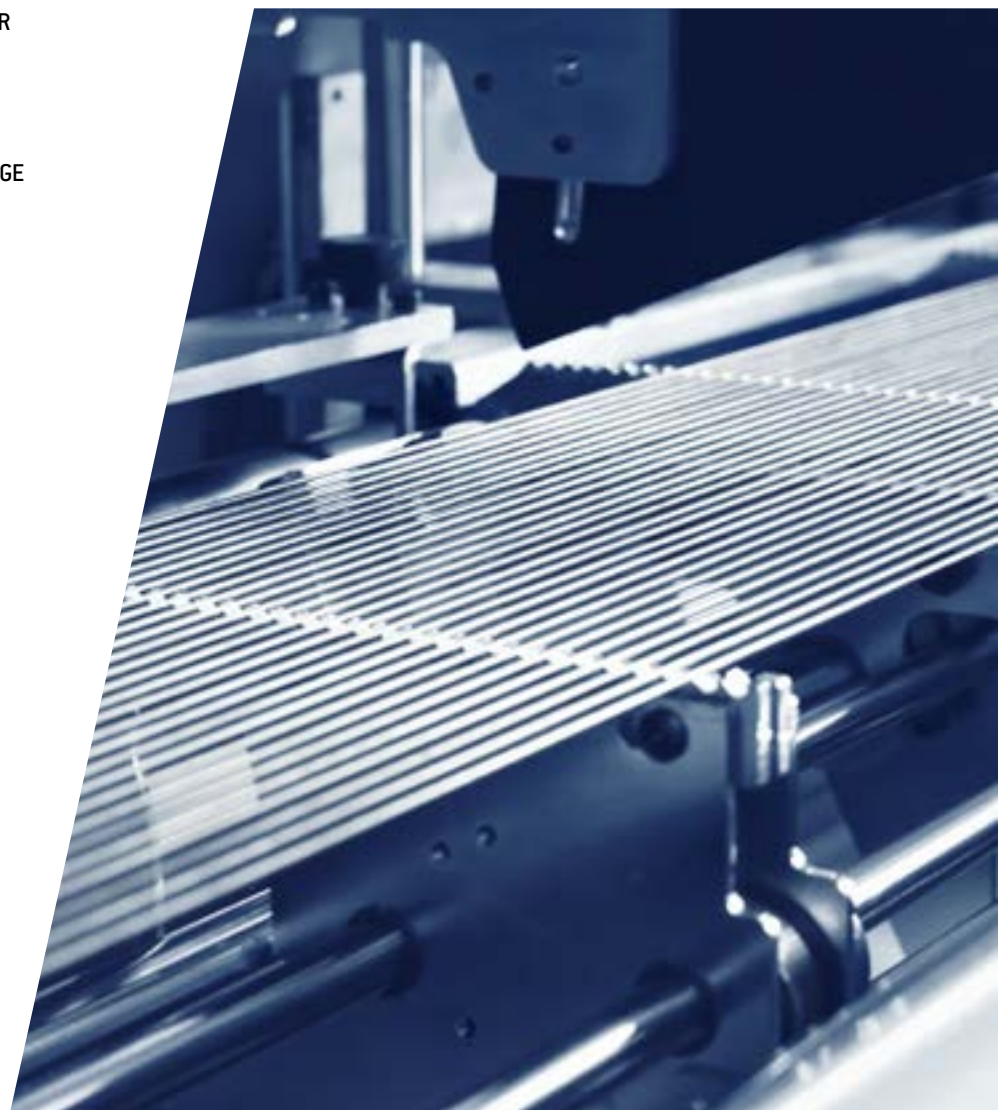
MAGAZINE REVERSIBILITY

Yes



COMPRESSED AIR

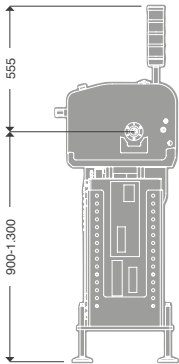
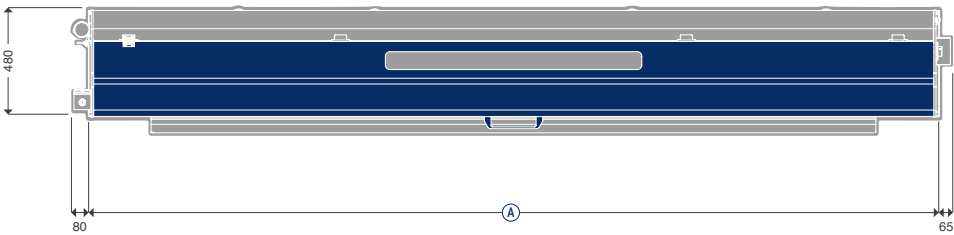
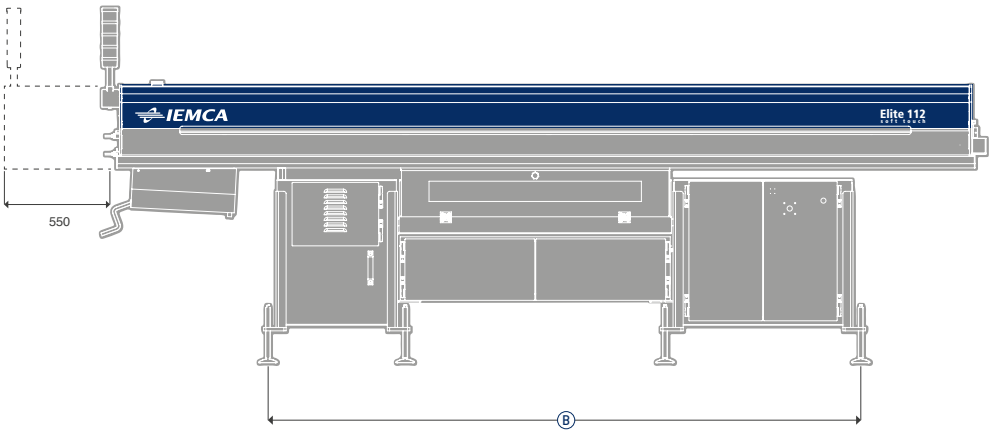
6 bar



*The data here reported refer to the ELITE range in general. Please refer to the technical data tables in the following pages for the values specific to each bar feeder model.

ELITE 112 SOFT TOUCH

Technical data	Walking Beam magazine
Round bar dimensions	0.8 - 12.7 mm
Hexagonal bars dimensions (key socket)	1.5 - 11 mm
Min bar length	450 mm
Max bar length	2100 mm - 3200 mm - 3700 mm
Walking beam magazine capacity	37 bars $\varnothing \leq 6$ mm - 18 bars $\varnothing \leq 12.7$ mm
Axial shifting	Optional - 550 mm
Max remnant length	280 mm
Min remnant length	80 mm
Bar changeover time*	20 s
Power supply	230/400 Volt
Network frequency	50/60 Hz
Power supply	24 Volt DC
Installed power	1.8 kW
Oil quantity	40 L
Air pressure	Min. 6 bar
Air consumption	6 NI/min
Bar feeder weight	Ver. 20 - 450 kg · Ver. 32 - 630 kg · Ver. 37 - 640 kg



ELITE 112 SOFT TOUCH

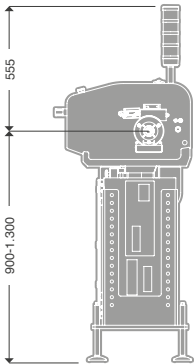
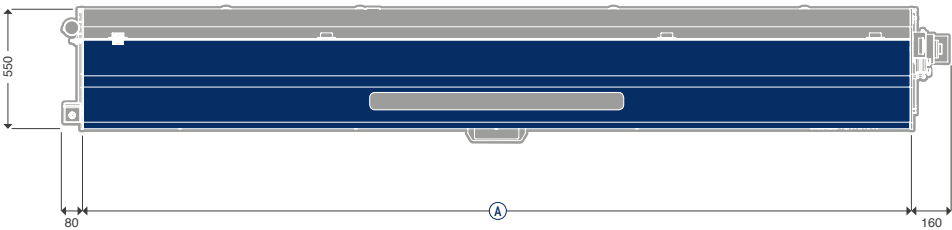
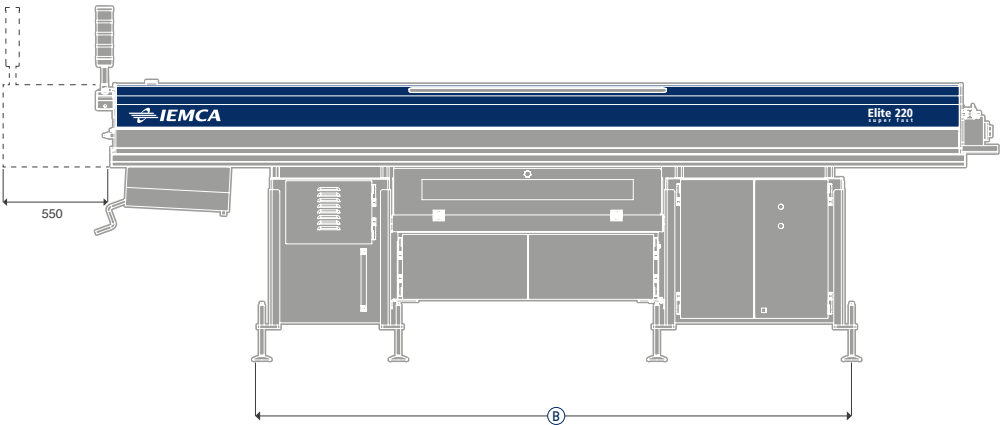
	A	B
20	2648	1400
32	3788	2635
37	4358	3155

* Data are purely indicative. Different factors such as length and material of the fed bar, type of magazine and some parameter settings done by the operator, may affect time significantly.

ELITE 220 SUPERFAST



Technical data	Walking Beam magazine Single rack magazine · MP
Round bar dimensions	2 - 23 mm
Hexagonal bars dimensions (key socket)	1.7 - 19 mm
Min bar length	450 mm
Max bar length	2100 mm - 3200 mm - 3700 mm
Walking beam magazine capacity	37 bars $\varnothing \leq 6$ mm
Single rack MP magazine capacity*	Up to 280 mm
Axial shifting	Optional - 550 mm
Max remnant length	280 mm
Min remnant length	80 mm
Bar changeover time**	20 s
Power supply	230/400 Volt
Network frequency	50/60 Hz
Power supply	24 Volt DC
Installed power	1.8 kW
Oil quantity	40 L
Air pressure	Min. 6 bar
Air consumption	8 NI/min
Bar feeder weight	Ver. 20 - 550 kg · Ver. 32 - 730 kg · Ver. 37 - 740 kg



ELITE 220 SUPERFAST

	A	B
20	2648	1400
32	3788	2635
37	4358	3155

REFERENCES



IEMCA ELITE 220 con Star SB-20R type G



IEMCA ELITE 112 con Star SB-12R type G



IEMCA ELITE 112 con Star SR10J

REFERENCES



IEMCA ELITE 112 con Citizen R07



IEMCA ELITE 112 con Citizen L12 VIII



IEMCA ELITE 112 con Citizen L2 12 X

REFERENCES



IEMCA ELITE 220 con Citizen L2 12 X



IEMCA ELITE 220 con Citizen L12 VII



IEMCA ELITE 220 con Citizen Cincom L20

REFERENCES



IEMCA ELITE 220 con Tornos Deco 10



IEMCA ELITE 220 con Tornos Swiss GT 13



IEMCA ELITE 112 con Tornos Nano



IEMCA ELITE 220 con Tornos Evo DEVO 16

REFERENCES



IEMCA ELITE 220 con Hanwha XD20 V



IEMCA ELITE 112 con Hanwha XD 12II



IEMCA ELITE 220 con Hanwha XD 16 III

REFERENCES



IEMCA ELITE 112 con Nexturn LP 12



IEMCA ELITE 220 con Doosan Puma ST20G



IEMCA ELITE 220 con DMG MORI SPRINT 2015

REFERENCES



IEMCA ELITE 220 con Tsugami BW208E-II



IEMCA ELITE 112 con Tsugami B0 126 III

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The **BUCCI INDUSTRIES GROUP** is worldwide leader in two sectors: in the industrial **AUTOMATION & ROBOTICS** and in the advanced **COMPOSITE MATERIALS**.

In the automation industry, Bucci Industries operates with the following brands:

IEMCA: leader in the design and production of bar feeders (www.iemca.com)

GIULIANI: leader in the industry of high productivity and flexibility machine tools and transfer machines (www.giulianico.com)

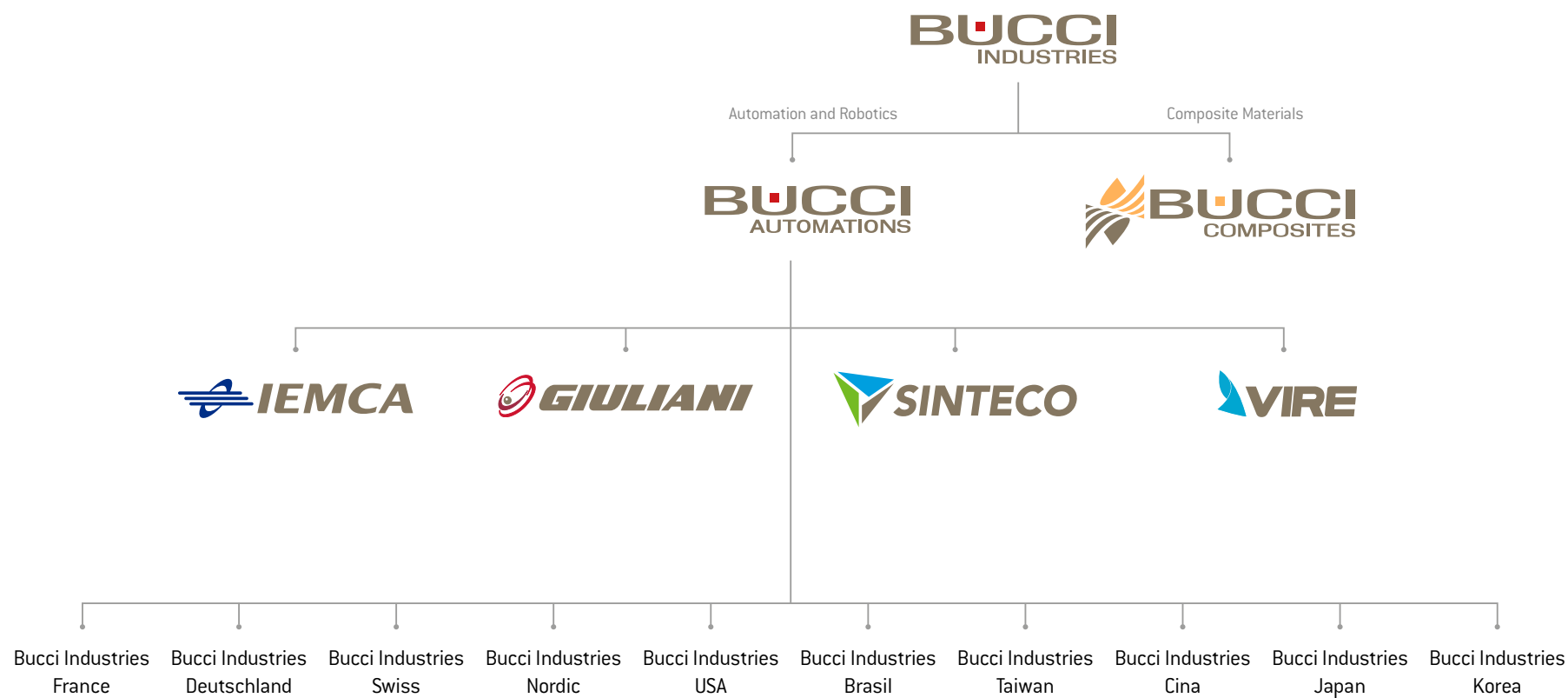
SINTECO: leader in the automation and robotics for assembly applications and in the management of medical unit doses in the hospitals (www.sintecorobotics.com)

VIRE: point of reference for the packaging of hygiene products (www.vire.it)

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