# MAESTRO® 80

NO LIMITS





# MAESTRO® 80 NO LIMITS

# PERFECTION IS AN ATTITUDE

The MAESTRO® 80 NO LIMITS is an automatic bar feeder able to support bars from 10 to 80 mm ideal to work with either fixed or sliding headstock lathes. For those who require high performances combined with flexibility.



#IEMCA

# 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, equipped with multi rack and bundle magazines in the market, increasing by 5 times the production autonomy of the bar feeder. IEMCA launches the first bar feeder in the world for multi spindle turning machines equipped with a revolutionary patent; the "double bar pusher" or "prefeeding". IEMCA develops TAL: the first bar feeder in the world equipped with lubrication inside the guide channel. 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 with variable diameter, thanks to the use of "sprockets" [IEMCA patent].















MODEL A MODEL CS MODEL T PRA TAL BOSS SIR

1966

1971

1973

1979

1983

1991

1994











IEMCA launches the MASTER bar feeder that works bars of 80 mm diameter. IEMCA presents ELITE to the market, the bar feeder for small diameter bars destined to become the benchmark for micromechanics. With the launch of the MASTER HF, IEMCA is the worldwide pioneer in the development of the Hyper Flexible technology to machine bars between 15 and 80 mm diameter without changing the guide channel.

IEMCA launches the SUPERFAST platform which reduces the bar changeover time up to 37% and reduces the headstock idle times to zero. IEMCA is the unique 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. The SIR HEAVY DUTY is the perfect combination of: machine life cycle costs minimization, extreme flexibility and productivity maximization. IEMCA launches in the market the first bar feeder in the world for micromechanics, able to work 0.3 mm bars.















MASTER

ELITE

MASTER HF

**BOSS HD SUPERFAST** 

INDUSTRY 4.0

SIR HEAVY DUTY

ELITE ZERO

1998

2007

2009

2013

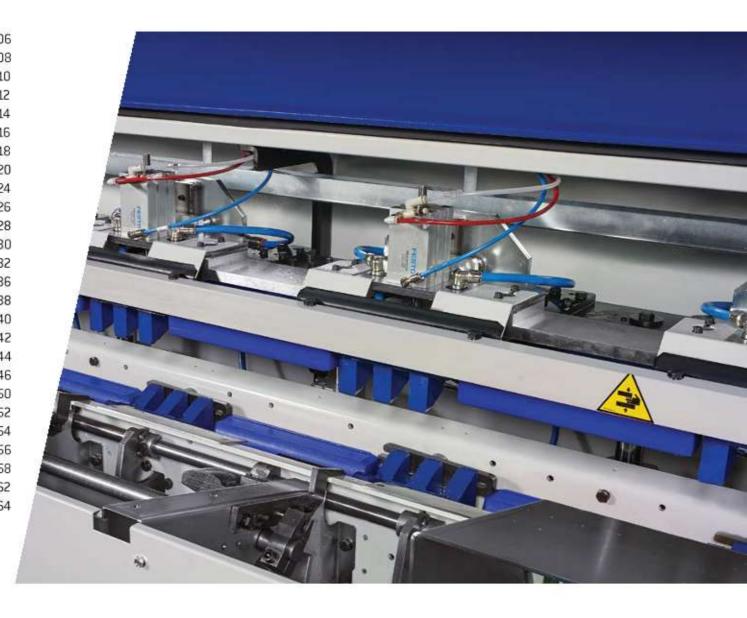
2016

2017

2018

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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 produxcs 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 35 active patents for its bar feeders.
- It cooperates with the best Italian Universities and Research Centers 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.













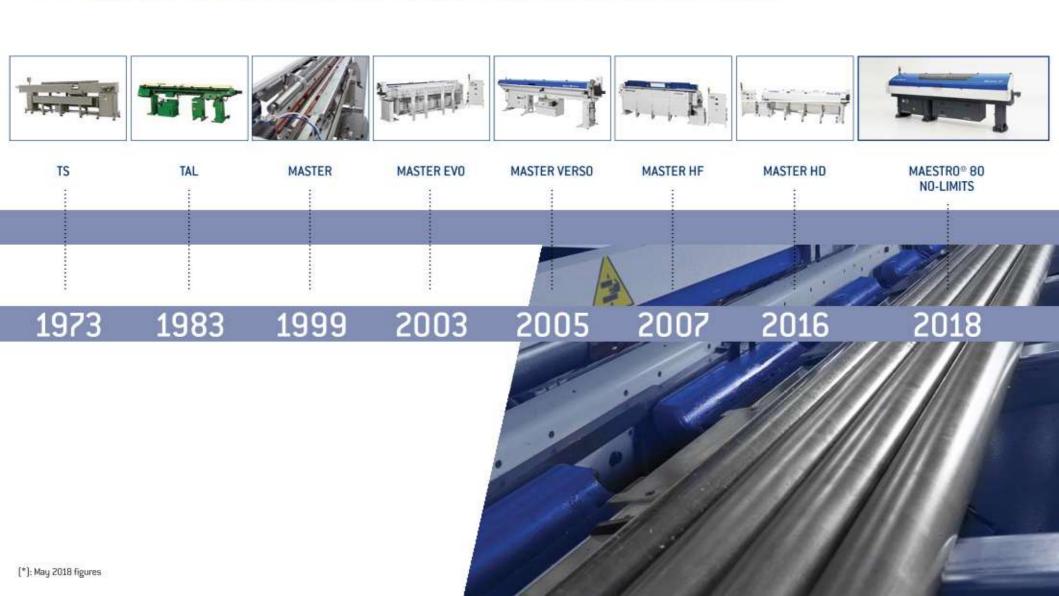
# THE LARGE IEMCA FACTORY

# Competences for the Industry of the Future

MAESTRO® 80 NO LIMITS 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.

# 45+ YEARS OF EXPERIENCE WITH BIG BARS

With 25,000 bar feeders installed in the world, for bars of diameter 65 mm and above



# THE BEST FOR BIG BARS

Unrivalled productivity, flexibility and ergonomics



· Maximization of productivity

- · Great flexibility
- Physical and cognitive ergonomics all with a new, modern DESIGN.

# THREE NEW PATENTS

# To set the market standard, once again





# ABACOS® (Adaptive BAr COntrol System):

Consisting of special self-adjusting bushings able to damp the vibrations of the bar and tighten the bar pusher at the same time, with no need to change the guide channel.





# HANDYLOQ®:

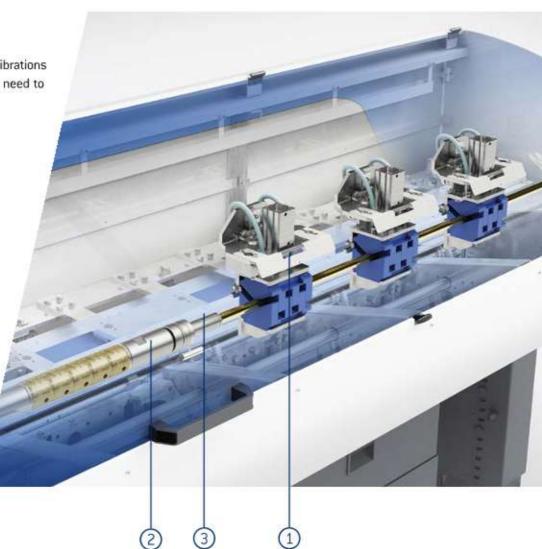
The fastest collet change manual system, with no tool required.





# VDC® (VIBRA-DAMP COLLET):

Low inertia, damping collet.



# **ABACOS®**

# Adaptive BAr COntrol System

ABACOS® is a IEMCA patented system consisting of self-adjusting bushings that adapt to the bar being worked, with no need for the operator to carry out manual actions or set the diameter on the man-machine interface system.

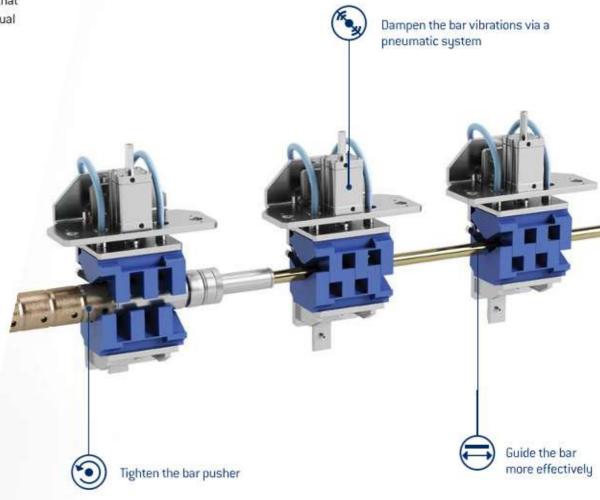
ABACOS® is able to carry out different operations at the same time:

- · Guide the bar
- · Dampen the bar vibrations via a pneumatic system
- · Tighten the bar pusher

All without changing the guide channel.

ABACOS® allows to machine shaped bars (eg hexagonal), by installing specially sized bushings on the bar diameter. It is fitted with a special lubrication circuit that reduces friction between the self-adjusting bushings and the bar.





Thanks to the special shape of the ABACOS® self-adjusting bushings, the bar is always in contact with the bushing at 4 regularly spaced points along the bar, independently of the diameter.

# HANDYLOQ®

# Quick, manual, no tool required

HANDYLOO® is a IEMCA patented system used to quickly engage the collet into the rotary assembly, allowing the operator to replace the collet manually with no tools.



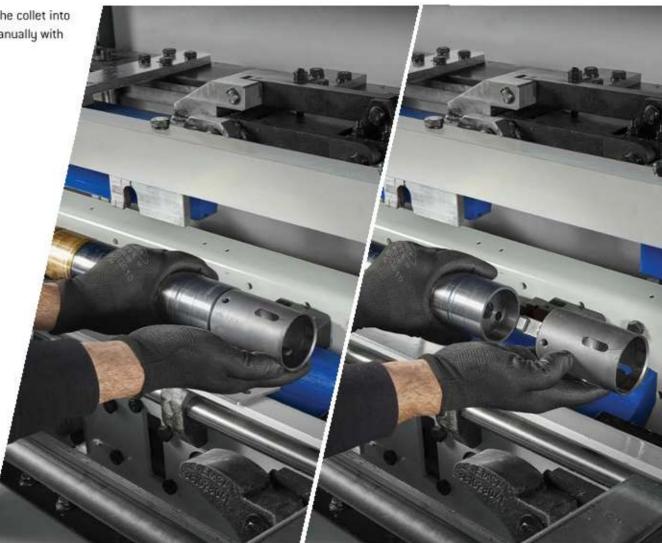
No tools are required



3"

Collet chage time: 3 seconds.





# VDC® (VIBRA-DAMP COLLET)

# A new concept of collet

VDC® (VIBRA-DAMP COLLET) is a IEMCA patented collet that dampens the bar vibrations by reducing its oscillation amplitude.

This new generation of VDC® collets (VIBRA-DAMP COLLET) reduces the bending and torsional stresses on the bar, separating the rotation of the bar from the motion of the rotary unit-collet system.

The VDC® (VIBRA-DAMP COLLET) collet offers total flexibility to the customer, who will be able to adjust the diameter of the collet to the bar to work.







# **CLOSER THAN EVER BEFORE!**

# Minimum installation distance



# PRODUCTIVITY MAXIMIZATION

# Get the best from your lathe by choosing IEMCA

MAESTRO® 80 NO LIMITS sets no limits to your desire for efficiency.

It allows to:

- 1. Reduce retooling times almost to zero
- 2. Cut bar change time down to 30 seconds\*
- Reach the maximum speed allowed by your lathe with every configuration

To change the diameter of the bar to work, it is sufficient to:

- Set the new diameter on the operator panel: the magazine will adjust automatically
- Manually replace the collet using the HANDYLOQ® quick coupling system, in masked time with phase 1 above



(1) |30"

Reduce retooling time almost to zero Set bar change time to 30 seconds



Reach the maximum speed allowed by your lathe with every configuration



# **ERGONOMIC BAR FEEDER**

# User friendly



# 7" OPERATOR INTERFACE

# One touch function

The 7° operator interface has special functions that make the machine extremely easy to use and intuitive. The operator cam view in real time the operator of the ABACOS® bushings throughout the work cycle.

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 keypad can be re-installed on the lathe control panel.





# **AXIAL SHIFTING**

# Fast, ergonomic and compact

The axial shifting of MAESTRO® 80 NO LIMITS is the optimal response to the operator needs.



## FAST.

The operator just needs to operate a lever to control the shifting with no need for any tools.



## ERGONOMIC.

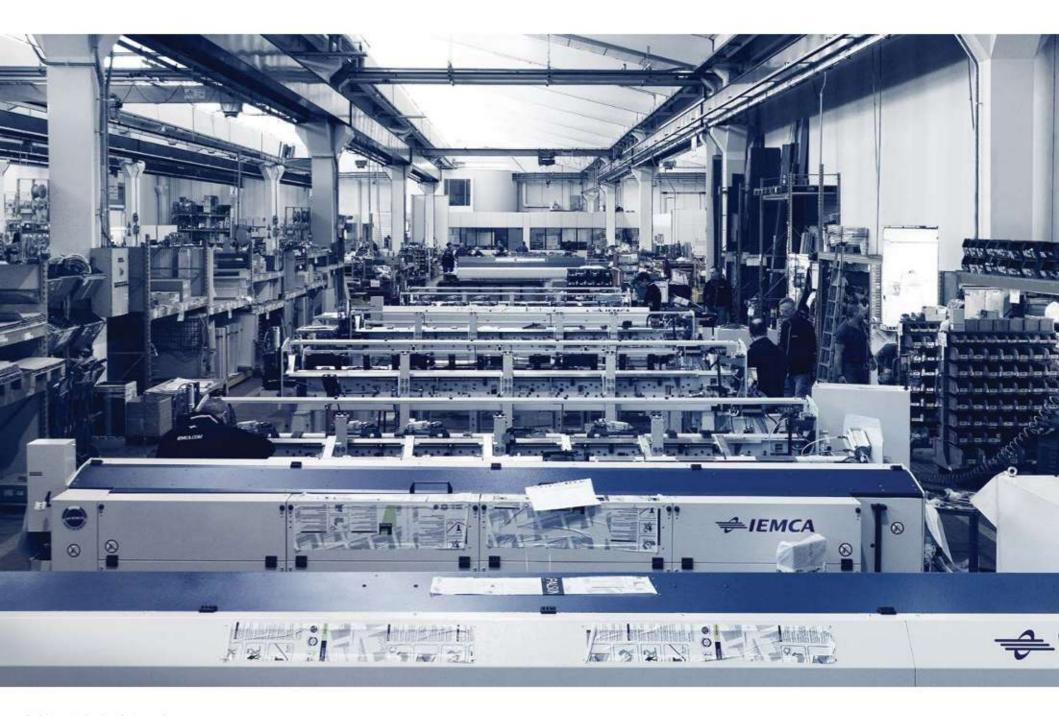
The operator starts the shifting while standing near the machine with no need to carry out other operations at floor height.



## COMPACT

No obtacles on the floor.





# REMNANT UNLOADING AND TOOL BOX

# The operator has never been so comfortable while working!

IEMCA has developed an innovative system for unloading remnants:

- · no protrusion from the machine
- · an attractive design
- · completely closed, oil splashes are avoided
- · fitted with a special sliding system to facilitate unloading



The new tool box is located under the remnant unloading system, and the operator can use this space to store IEMCA accessories.



# CLEANLINESS AND SILENT OPERATION

# That's what we want for your production areas!

MAESTRO® 80 NO LIMITS has been designed to maximize the comfort of work in your production areas, creating the optimal environment for productivity.

- in 1983 IEMCA was the first to introduce lubrication in the guide channel. We have put our 35 years of experience in lubricant management into this project, with the aim of eliminating leaks thanks to a new enlarged tank, a completely closed beam and a splash guard.
- •The design of the machine is modern and attractive and was especially conceived by IEMCA to hide the cables inside avoiding to leave them visible on the ground.
- IEMCA has optimized acoustic comfort by reducing the machine noise throughout the work cycle: this has been achieved with careful design of the guards and studies on the guides material.



# **ELIMINATE OIL LEAKES**

A new larger tank, a completely closed beam and a splash guard. HIDE THE CABLES INSIDE And avoid leaving them on the ground.

## ACOUSTIC COMFORT WITH REDUCED NOISE

Thanks to the special attention put in the design of the guards and in-depth studies on the guides material

# SINGLE RACK MAGAZINE

# Practical and safe while feeding



# A MAGAZINE FOR EVERY NEED

# UP, Bundle and Open Access Bundle

Magazines and carriages for every bar feeding needs and requirements will be available.

# Magazine "UP"

- · It can be loaded manually, using a IEMCA carriage, an operator trolley, a transpallet or a bridge crane
- · Autonomy: 600 mm that can be extended yo 1,200 mm

# Magazine "BUNDLE" (F)

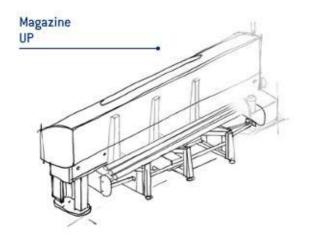
- · It can be loaded with an operator trolley, a transpallet or a bridge crane
- · Autonomy: 2,500 kg

# Magazine "OPEN ACCESS BUNDLE" (FS)

- · Can be loaded with a IEMCA carriage, an operator trolley, a transpallet or a bridge crane
- · Autonomy: 2,500 kg



Carraige for magazine







# **IEMCA INDUSTRY 4.0**

# The future is now

- IEMCA

In January 2017 IEMCA is the first company in the world producing bar feeders to deliver Industry 4.0 machines.

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

Electric Box



# THE FUTURE OF INTERACTION BETWEEN MAN AND MACHINE

The IEMCA Industry 4.0 solution provides:



Sending e-mail and SMS in the event of an alarm on the machine



Telecontrol and remote control



Global assistance on all equipped machines



Backup and restoration of the Machine Parameters



Telecontrol via OPC UA Clients



Telecontrol with camera



Remote control and local remote control





# **CUSTOMER COMES FIRST**

# A worldwide network at your service





## IEMCA a BUCCI AUTOMATIONS S.p.A. Division

Via Granarolo 167 48018 Faenza [RA], ITALY Ph. +39.0546.698000 F. +39.0546.46224 iemca.it@bucci-industries.com www.iemca.com

# 0

### BRASIL

## BUCCI INDUSTRIES BRASIL IGM DO BRASIL LTDA

Avenida dos Pinheiros 465 13283-008 Vinhedo - SP (São Paulo) Ph. +55 19 3515 7220 jenos.br@bucci-industries.com



#### CHINA

## BUCCI INDUSTRIES CHINA BI-TECH (Suzhou) Co., Ltd.

No. 106 Wufang Road, Wujiang District Suzhou City, Jiangsu Province, PRC Ph. +86 512 8155 6988 F. +86 512 8155 6986 iemca.cn@bucci-industries.com



# CZECH REPUBLIC

PODAJEX LTD ING, PETR KALETA Vendryně 1000 73994 Vendryně TEL. +420 608 927 130 petr.kaleta@podajex.com www.podajex.com



## CZECH REPUBLIC

www.sfspro.cz

SFS PRO S.R.O. Tečovská 911 763 02 Malenovice Zlín TEL. Rostislav Sypták:+420 702 102 748 Milan Dosedla:+420 776 144 792 md@sfspro.cz

#### LEGEND:









Q,

Apent



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# FRANCE

#### BUCCI INDUSTRIES FRANCE SARI.

145, Rue Louis Armand Z.I. Les Grands Prés 24300 Cluses Ph. +33 450 896960 E. +33 450 896135 jernea fr@buccl-industries.com

# GERMANY

ITALY

BIANCHI MACCHINE

22070 Guanzate CO

TEL. +39 031 922322

FAX +39 031 977083

info@bianchi-iemca.it

www.bianchi-iemca.it

UTENSILI S.R.L.

Via XXIV Maggio

## BUCCI INDUSTRIES DEUTSCHLAND GmbH

Stammheimer Str. 10 0-70806 Komwestheim Ph. +49 [0]7154 83 70 700 F. +49 [0]7154 83 70 7025 jemca de@bucci-industries.com

# **GERMANY**

## STIMPEL WERKZEUGMASCHINEN

Stuettinghauser Ringstr. 39 58515 Luedenscheid TEL. +49 2351 78183 FAX +49 2351 78569 info@stimpel-werkzeugmaschinen.de www.stimpel-werkzeugmaschinen.de

## GERMANY

#### KRUG WERKZEUGMASCHINEN

Kirchberg 3 36448 Steinbach TEL, +49 036961/72753 FAX +49 036961/33037 info@krug-werkzeugmaschinen.de www.krug-werkzeugmaschinen.de



## GERMANY

## LOBERS REIMO

Rebgartenweg 5/1 D-79576 Weil am Rhein TEL, +49 7621 161460 FAX +49 7621 16146 29 mail@lobers.de www.lobers.de

# GERMANY

#### HOSSFELD HERBERT GMBH

Koenigsberger Str 10 D-58511 Luedenscheid TEL. +49 2351 80521 FAX +49 2351 860442 info@hossfeldservice.de

## INDIA

## VAIBHAV NAGORI

NATIONAL SALES MANAGER Hauz Khas Enclave 110016 New Delhi TEL. +91 9986337038 v.nagori@bucci-industries.com



## JAPAN

## BUCCI INDUSTRIES JAPAN IGM Nippon K.K.

6-10-1 Kamoi, Midori-Ku 226-0003 Yokohama, Japan Ph. +81 45 931 5096 F. +81 45 931 5098 iemca.jp@bucci-industries.com



## POLAND

#### PODAJEX LTD

ING. PETR KALETA Lukowa 15/3 43-300 Bielko-Biała TEL. +420 608 927 130 petr.kaleta@podajex.com www.podajex.com

# POLAND

## CENTRUM TECHNIKI MACRO SP. Z O.O.

ul. Klonowa 24 - 62-002 Suchy Las TEL. +48 61 656 35 55 FAX +48 61 842 06 02 biuro.sm@macro.net.pl www.macro.net.pl



# PODAJEX LTD

ING. PETR KALETA Str. Cri an 14 415 100 Ale d TEL. +420 608 927 130 petr.kaleta@podajex.com www.podajex.com



#### U-HAN TRADING CO. LTD.

.RM #311, 8-D0N6, 197, Gurojungang-ro, Guro-gu <08216 > Seoul TEL. +82 2 6345 2500 FAX +82 2 782 2454 uhan@uhantrading.com www.uhantrading.com



#### MANTEIN

Poligono Olaso, C/ Olasope N°3 Nave 5 20870 Elgoibar Guipúzcoa TEL. +34 943 25 79 73 FAX +34 943 25 79 74 mantein@mantein.com



# KENSON COMPONENT AB

SWEDEN

Kristineholmsvägen 26 44139 Alingsås TEL. +46 322 668720 FAX +46 322 633367 info@kenson.se



## BUCCI INDUSTRIES SWISS SA BELPRAHON

Route du Grandval 3 CH-2744 Belprahon TEL, +41 32 493 40 54 FAX +41 32 493 40 55 jemca,ch@bucci-industries.com



## TAIWAN

#### BUCCI INDUSTRIES TAIWAN GIMCO Ltd.

No. 297, Dongsing Rd., Dali Dist., 41257 Taichung City, Taiwan, R.O.C. Ph. +886-4-2406-6970 F. +886-4-2406-6943 iemca.tw@bucci-industries.com



## TURKEY

## SINTEK MÜHENDISLIK

Tarabya Mah. Yumak Sok No: 3A/1 Sariyer Istanbul TEL. +90 [0212] 299 61 84 85 FAX +90 [0212] 299 56 75 sinan.onurlu@sintekmuhendislik.com www.sintekmuhendislik.com



### UNITED KINDOM

## 1ST MACHINE TOOLS ACCESSORIES LIMITED

1 The Headlands SP5 3JJ Downton Salisbury TEL. +44 1725 512517 FAX +44 1725 512 529 enquiries@1mta.com www.1mta.com



## USA

## BUCCI INDUSTRIES USA Inc.

9332 Forsyth Park Drive NC 28273, Charlotte, USA Ph. 001-704-5838341 F. 001-704-5838486 jemca.us@bucci-industries.com

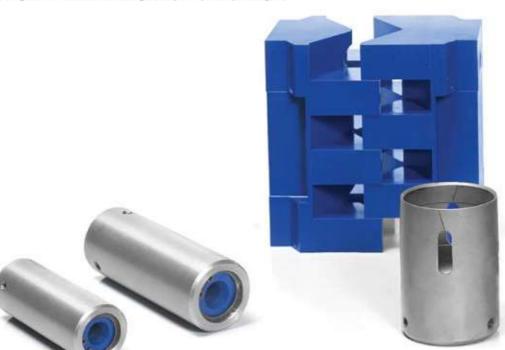
# IEMCA SUPPORTS YOU KEEPING YOUR MACHINE AT 100%

## WORLDWIDE SUPPORT LEVEL

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.





# **TECHINICAL SPECIFICATIONS**



ROUND BARS 10 - 80 mm



MAGAZINE FS Coming Soon



BAR CHANGE TIME\* 30 sec.



HEXAGONAL BARS 10 - 65 mm



NUMBER OF SPINDLES:



COMPRESSED AIR: 6 bar



MAGAZINE MP 330 mm



BAR LENGTH 1.000 - 6.200 mm



INSTALLED POWER\* 2,3 kW



MAGAZINE UP Coming soon



REMNANT LENGTH 110 - 400 mm



OPERATING VOLTAGE 230/400 Volt





MAX BAR WEIGHT: 180 kg

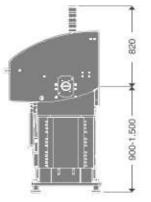


# MAESTRO® 80 NO LIMITS

Technical data	Single-rack magazine (MP)	
Round bar dimensions		
Hexagonal bars dimensions ((key socket)	10 - 65 mm	
Square bars side	10 - 50 mm	
Minimum bar length	1000 mm	
Maximum bar length	3200 mm - 3700 mm - 4200 mm	
MP magazine capacity	285 - 330 mm (es. n° 29 barre Ø10, n° 4 barre Ø80)	
Axial shifting	800 mm	
Max bar weight	180 kgv	
Max remnant length	Ø 8 ÷ 65 mm = 400 mm · Ø 66 ÷ 80 mm = 250 mm	
Min remnant length	110 mm	
Bar change time*	30 sec.	
Operating voltage	230 / 400 Volt	
Network frequency	50 / 60 Hz	
Control voltage	24 Volt A.C 24 Volt D.C.	
nstalled power	2,3 kW	
Oil quantity	65 L	
Air pressure	6 bar	
Air consumption	42 NI/cambio barra [330 l/min max consumo instantaneo]	
Bar feeder weight	Ver. 32 – 1800 kg	







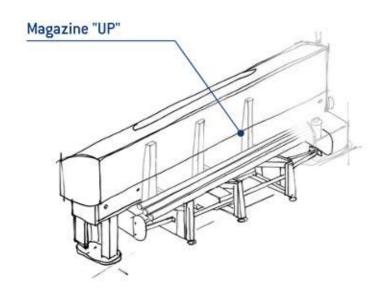
# MAESTRO® 80 No Limits - Single-rack magazine

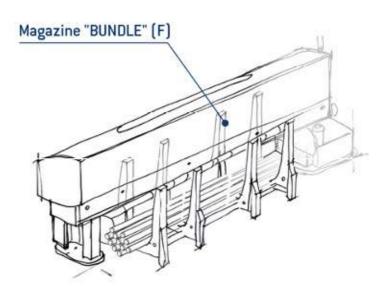
	32	37	42
Α	4266	4766	5266
В	3783,5	4283,5	4783,5

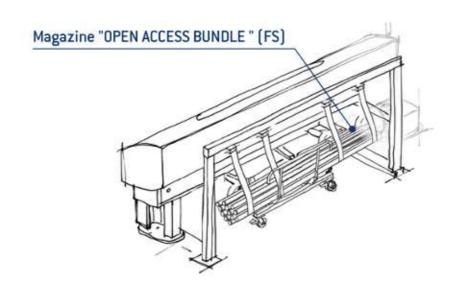
Different factors such as length and material of the barstock, and some of the parameter settings by the operator, can affect the time significantly."

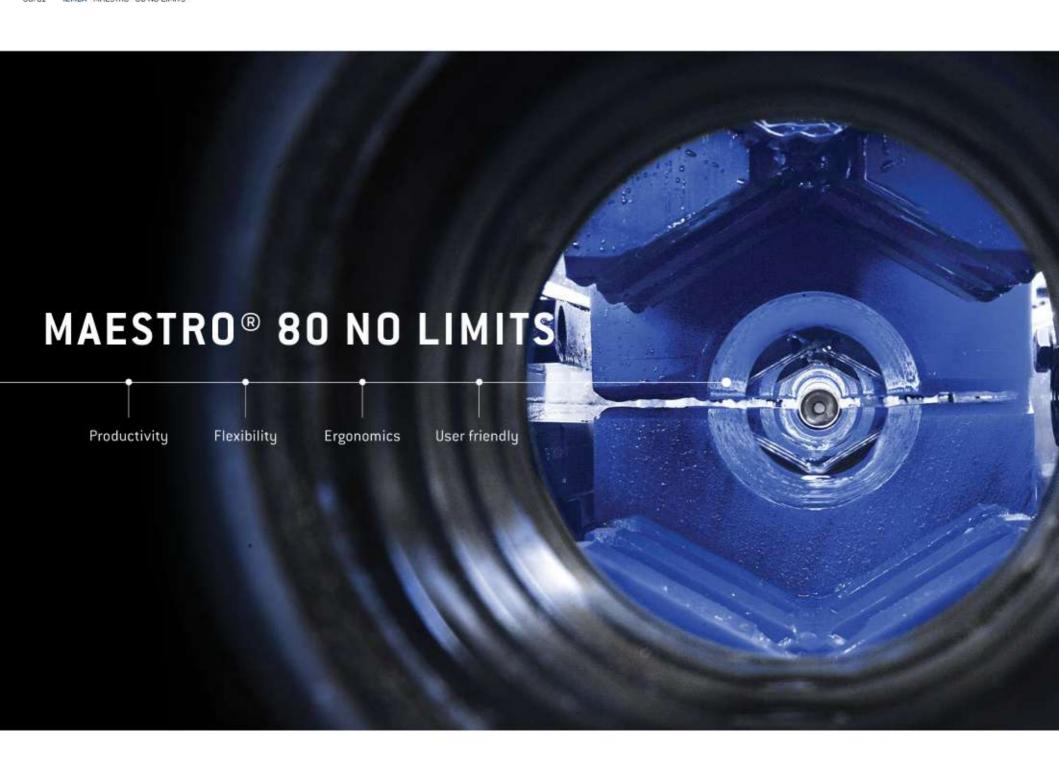
<sup>\*</sup>The table contains purely indicative data.

# **COMING SOON**









# **BUCCI INDUSTRIES**

# People, Passion, Technology!

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 hugiene products (www.vire.it)

Bucci Industries operates with the brand RIBA COMPOSITES in the design and production of advanced composite materials, primirily carbon fiber [www.ribacomposites.it]

www.bucci-industries.com





















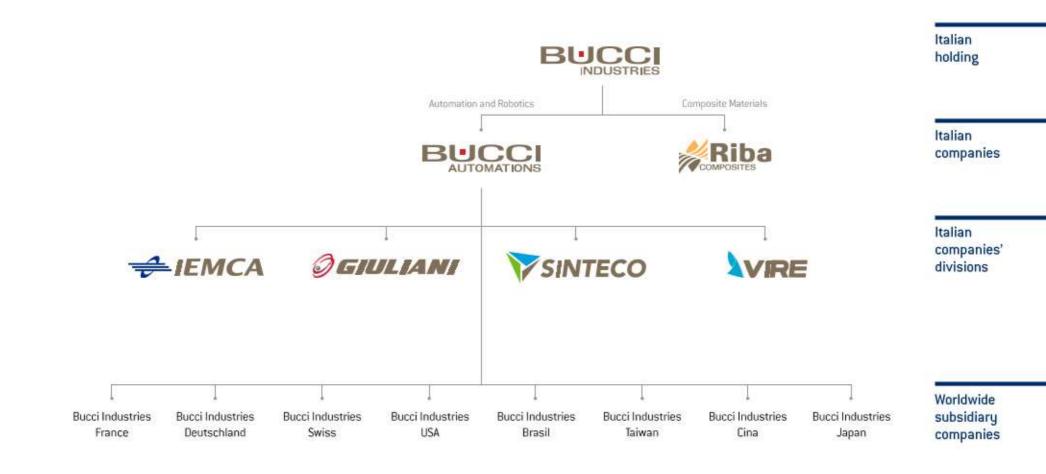








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# **IEMCA WORLDWIDE**



## **HEADQUARTER**

#### IEMCA

### a BUCCI AUTOMATIONS S.p.A. Division

Via Granarolo 167 48018 Faenza [RA], Italy Ph. +39.0546.698000 E +39.0546.46224 iemca.it@bucci-industries.com www.iemca.com

## **BRANCHES**

### **BUCCI INDUSTRIES BRASIL**

IGM DO BRASIL LTDA Avenida dos Pinheiros 465 13283-008 Vinhedo - SP, Brasil Ph. +55 19 3515 7220 iemca.br@bucci-industries.com

#### **BUCCI INDUSTRIES CHINA**

BI-TECH (Suzhou) Co., Ltd. No. 106 Wufang Road, Wujiang District, Suzhou City, Jiangsu Province, PRC Ph. +86 512 8155 6988 E +86 512 8155 6986 iemca.cn@bucci-industries.com

### **BUCCI INDUSTRIES DEUTSCHLAND GmbH**

Stammheimer Str. 10 D-70806 Kornwestheim, Deutschland Ph. +49 [0]7154 83 70 700 E +49 [0] 7154 83 70 7025 iemca.de@bucci-industries.com

#### **BUCCI INDUSTRIES FRANCE Sarl**

145 Rue Louis Armand Z.I. Les Grands Prés 74300 Cluses, France Ph. +33 450 896960 E +33 450 896135 iemca.fr@bucci-industries.com

#### **BUCCI INDUSTRIES JAPAN**

IGM Nippon K.K. 6-10-1 Kamoi, Midori-KU 226-0003 Yokohama, Japan Ph. +81 45 931 5096 F: +81 45 931 5098 iemca.jp@bucci-industries.com

### **BUCCI INDUSTRIES SWISS SA**

Route du Grandval 3 CH-2744 Belprahon, Switzerland Ph. +41 32 493 40 54 F +41 32 493 40 55 iemca.ch@bucci-industries.com

### **BUCCI INDUSTRIES TAIWAN**

GIMCO Ltd. NO. 297, Dongsing Rd., Dali Dist., 41257 Taichung City, Taiwan, R.O.C. Ph. +886-4-2406-6970 F. +886-4-2406-6943 iemca.tw@bucci-industries.com

#### BUCCI INDUSTRIES USA Inc.

9332 Forsyth Park Drive NC 28273, Charlotte, USA Ph. 001-704-5838341 F. 001-704-5838486 iemca.us@bucci-industries.com

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**IEMCA prefers:** 











is a brand of



