



ELITE 220
SUPERFAST

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The **ELITE 220 SUPERFAST** is an automatic **high-performance** bar feeder, for bars with diameters between **2** and **20 mm**, ideal for applications on **sliding headstock** lathes for bar lengths from **450** to **3,700 mm**. The Elite is a premium bar feeder, **simple** to use, **precise**, and incredibly **fast**. It is designed to meet the needs of those who are looking for the best possible performance and reliability, **accurate selection of small bars**, **adaptability** when changeovers are needed, and a guarantee of **rigidity** even for the most challenging applications.

∅ 2 / 20 mm



ELITE



Watch the video
of the Elite 220 Superfast



The Elite 220 Superfast

represents the next evolution of the bar feeder for small bars that IEMCA has launched in 2007 and which has become the technological benchmark for the market.

Benefits

Simple. The bar feeder is equipped with two types of magazines, a linear design (formed by a single rack on which bars of diameter between 4 and 20 mm are loaded) and a step by step design (ideal for loading bars with diameter between 2 and 6 mm). The improved operator interface has been enriched with new functionalities which make machine usage even easier and more intuitive than before. The snap-in guide channel allows easy changeover in only 4 minutes.

Precise. Work can be done with maximum reliability on the smallest bars available in the market (∅ 2 mm) thanks to the very accurate selection device and the innovative smooth sliding trolley with ball bearings mounted on the linear guide which guarantees maximum accuracy.

Super Fast. It is possible to reach high spindle speeds (up to 20,000 RPM) without vibration, thanks to the high rigidity of the bar feeder, the circular polyurethane guide channels, and the antivibration bushing device which guarantees the maximum support to the rotating bar. Bar change times have been reduced to 20 seconds, and headstock idle times have been eliminated (given compatibility with the characteristics of the lathe), and the mechanical synchronisation allows higher headstock acceleration.

Simple



The **linear magazine** is formed by a single rack (260 mm) designed to load bars of diameters between **4** and **20 mm**.

The **step by step magazine** is ideal for loading very small bars (diameters between **2** and **6 mm**) and it provides an extended magazine for longer unattended run times.



The **new one touch operator interface** can facilitate usage by less experienced operators and also has the ability to **store part programs** and easily recall them if needed. It is possible to remotely operate the bar feeder from the panel of the lathe*.

The **changeover** time takes only **4 minutes** thanks to the snap-in channel guides.

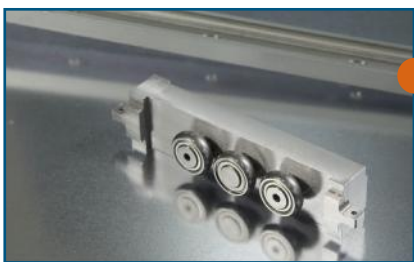


Precise



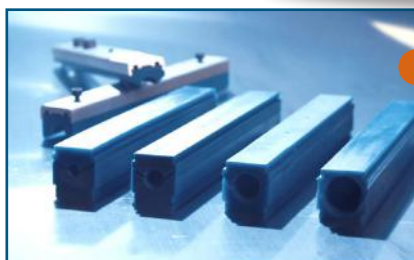
The bar **selection** system is very precise and allows selection with maximum reliability down to **2 mm bars**.

The new electronic **Right Length control system** guarantees that incorrectly sized pieces (longer/shorter compared to the specification) will not be created.



The **Full Digital** technology allows management with extreme accuracy even for small and light bars. Thanks to low inertia motor equipped with an **encoder** with more than **4 million pulses per revolution**, high performance **torque control**, and **mechanics** of the **highest quality**, it is easy to handle **very light weight bars**.

Super Fast



It is easy to reach **20,000 RPM** thanks to the closed circular polyurethane guide channel with calibrated section.

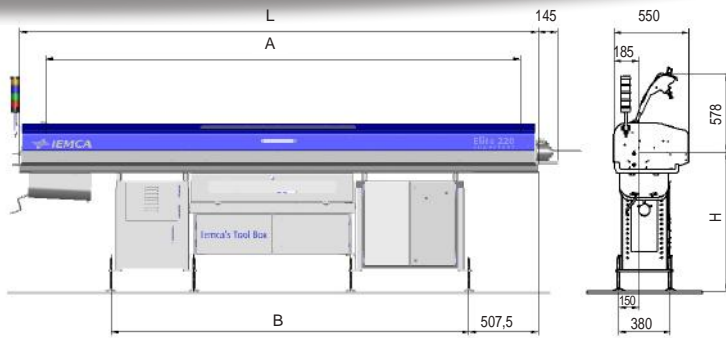
Bar change time has been reduced to **20 seconds** thanks to the new work cycle and new components**.

Headstock idle times caused by the synchronisation between the lathe and bar feeder have been reduced to **nothing****.



(*) Only for lathes with Windows operating system and only by request when ordering.

(**) The data is based on specific actual situations. Please contact your nearest IEMCA sales agent in order to receive an estimate for the productivity increase in your specific case.



Dimensions	20	32	37
L	2650	3950	4520
Amax	2100 (6 ft)	3200 (10.5 ft)	3700 (12 ft)
Amin	450		
B	1400	2635	3155
H	1000*	900-1300	

A = bar length

(*) For greater heights, contact your closest Iemca dealer.

Technical Characteristics

Round bar dimensions	∅ Min 2 mm (5/64")	∅ Max 20 mm (25/32")
Hexagonal bar dimensions (socket wrench)	∅ Min 1.5 mm (3/64")	∅ Max 11 mm (9/16")
Step by Step Magazine Capacity	36 bars (∅ ≤ 6 mm)	18 bars (∅ ≤ 12 mm)
Single Rack Magazine Capacity	65 bars (∅ 4 mm)	13 bars (∅ 20 mm)
Compressed air	6-8 bar	
Working axis height	900-1300 mm	
Installed power	1.8 kW	



Elite 220 Superfast can be controlled also through smartphone and tablet



Don't forget to always use original IEMCA spare parts to have maximum performance



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