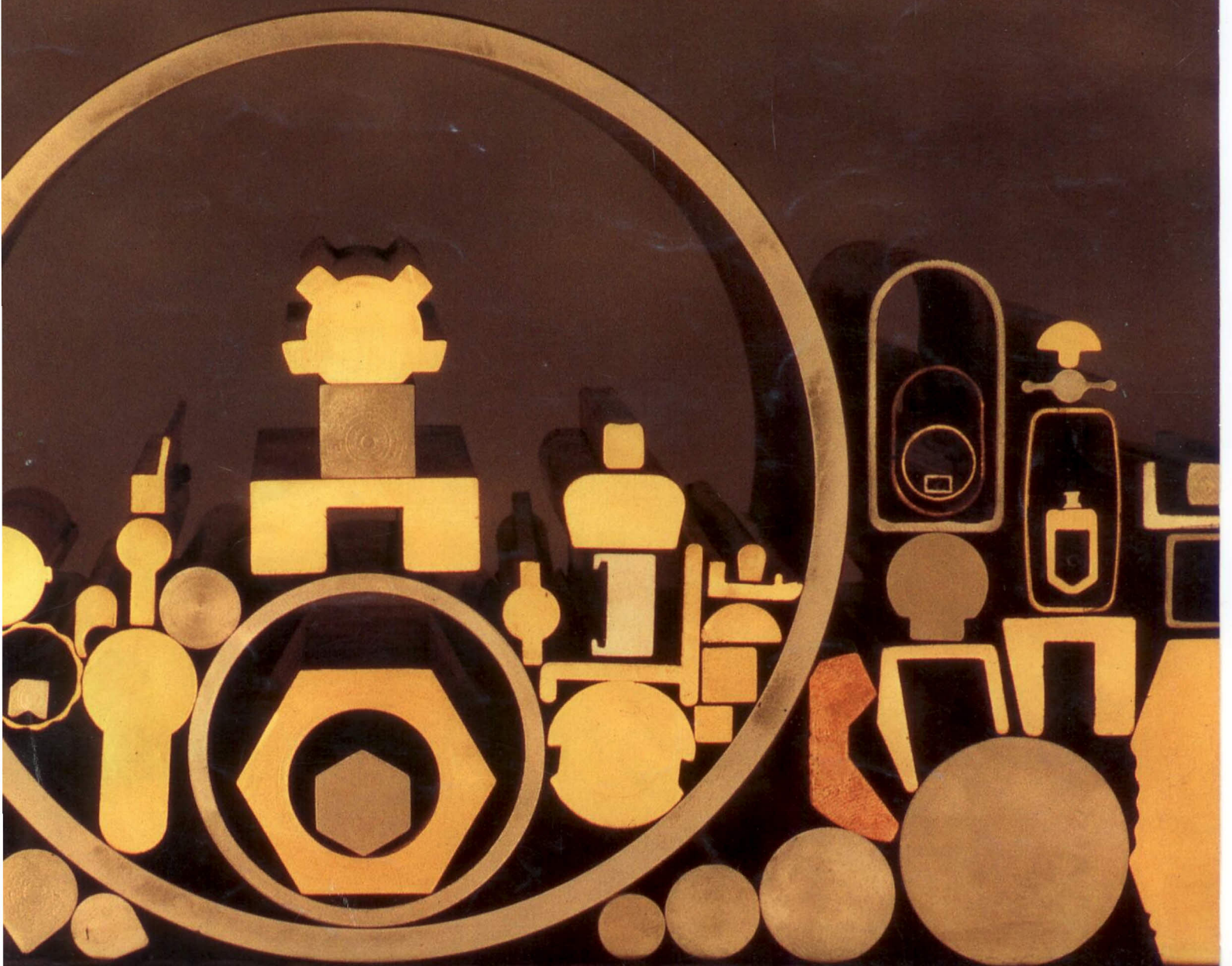


IEMCA

CNC BOSS 542



BOSS (Bar Oil Super System) is an automatic magazine bar feeder that combines the very well known IEMCA mechanical solutions with the flexibility of a reliable CNC system.

BOSS is compatible with all types of sliding and fixed headstock lathes both CNC and cam operated with spindle bores up to 42 mm. Equipped with an advanced elastic guide channel, BOSS allows the rotation of round and shaped bars (hexagonal and square) at high RPMs with minimal noise and no vibration.

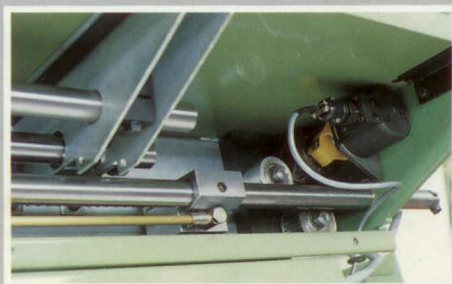
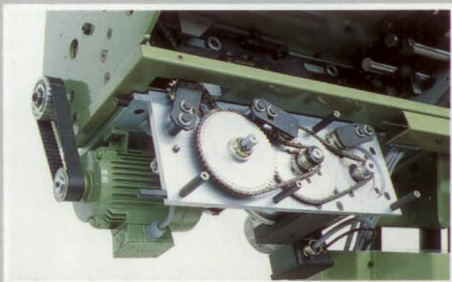
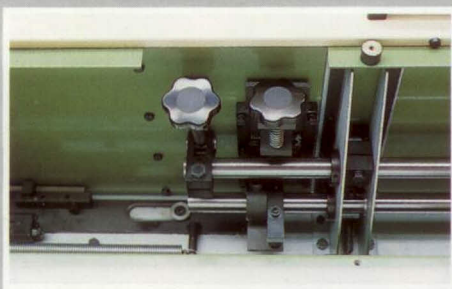
Our patented system of double pusher reduces the overall length of the feeder regardless of the machine tool spindle length (Pusher Length).

A centralized adjustment device reduces set-up times between bar of different diameter without guide channel changes.

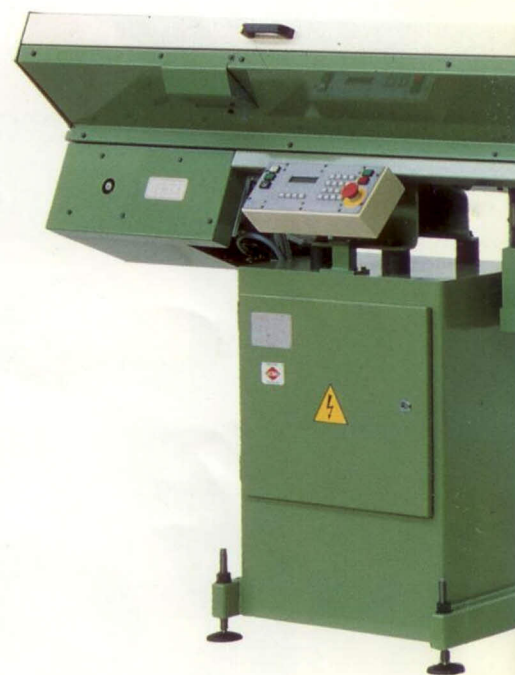
Due to our innovative design, channel changes (if necessary) are reduced to less than 10 min.

The bar feeding speed is controlled throughout its total cycle at a suitable value by the use of a sensitive electronically adjustable thrust clutch driven by a DC motor.

The synchronization device allows rapid backward movements on sliding headstock machines without forward feed pressure from the bar feed. No bar distortion.

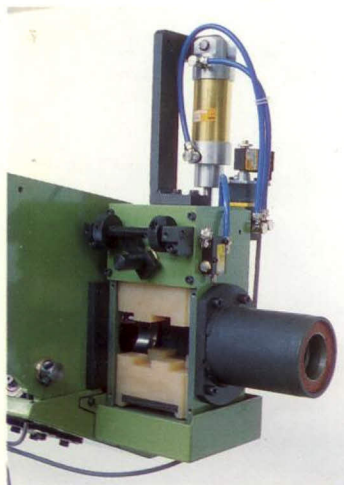


A front guide bushing device between the feeder and lathe is equipped with a vulkollan bush whose diameter is very close to the bar size being machined. The system is lubricated by a copious oil flow and opened by a special device to allow pusher through. This system stops bar vibration into the machine spindle and improves component precision. By changing just the bush the need to change channels even outside their normal bar range is most times avoided.

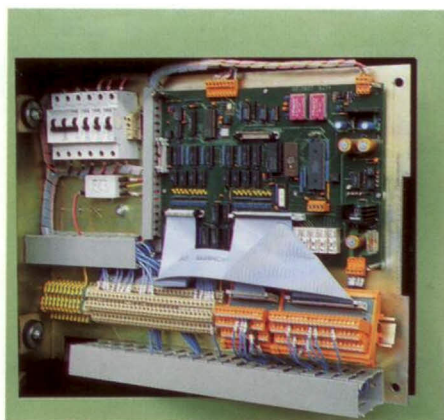


OMATIC FEEDER FOR BARS FROM 5 UP TO 42 MM

MOD. CNC BOSS 542



The bar feeder cycle and the interconnection with any lathe are entirely controlled by a very flexible and reliable CNC system with an integrated PLC device designed by IEMCA. All operations are controlled step by step, and a display identifies any working process showing possible breakdown with very easy messages to understand.



This new programmable and control system, similar to the most modern machine tool systems, performs and checks many functions that before needed different devices:

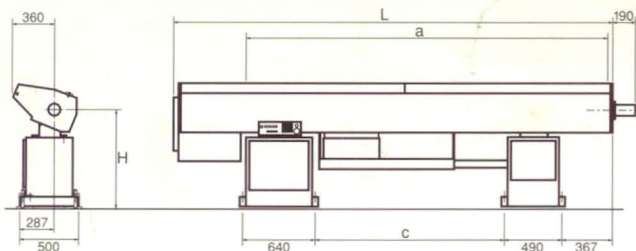
- Thrusting clutch adjustment to different value during the bar feeder cycle.
- Continuous adjustment of feeding speed for using the most suitable value during all of the bar feeder cycle.
- Checking of feeding length.
- Positioning on lathe fixed stop without any stroke.
- Very easy automatic loading of any shaped bar.
- According to operator's need, it can work with either rear extraction or front ejection of bar remnant.
- Very easy electrical interfacing with each lathe model.



CNC BOSS 542

BAR DIAMETER	Ø 5 mm (3/16") - 42 mm (1" 21/32) Ø 4,4 mm (11/64") - 36 mm (1" 13/32)
BAR LENGTH (*)	3200 - 3740 - 4400 10,5' - 12,2' - 14,4'
MAGAZINE CAPACITY	n° 28 bars - Ø 10 mm (3/8")

(*) Other lengths available on request



CNC BOSS 542

Mod.	32	37	44
L	3750	4290	4950
a	3200	3740	4400
c	1655	2195	2855
H	850 ÷ 1300		

Other lengths available

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