

MUPEM

SINGLE SPINDLE AUTOMATIC LATHES



TR SERIES

BAR CAPACITY

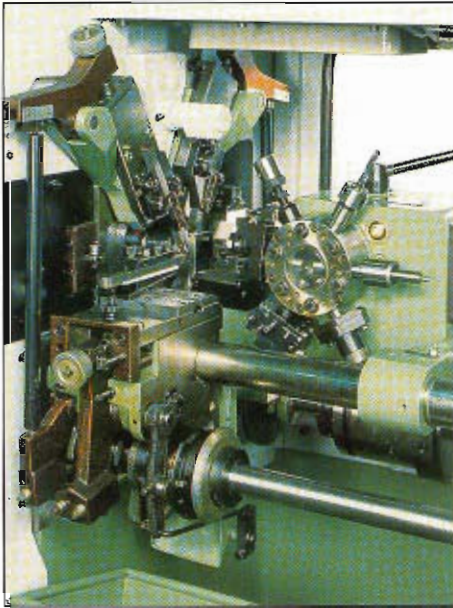
16 - 26 and 36 mm.

SINGLE SPINDLE AUTOMATIC LATHES

TR-16 / 26 / 26P / 36

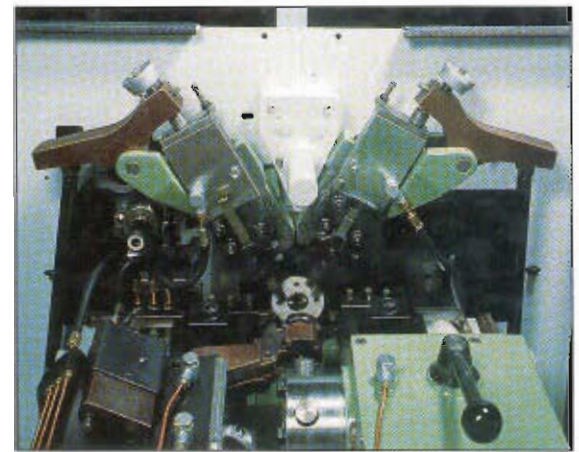
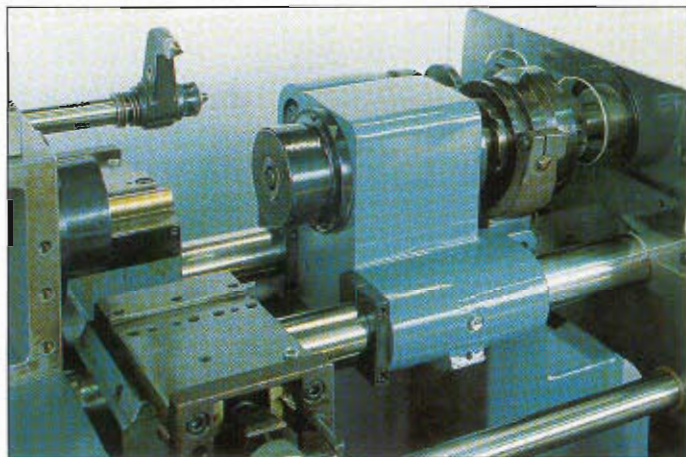
TECHNICAL FEATURES

The single spindle automatic lathes model TR-16/26/36 have a bar capacity of 16, 26 and 36 mm. respectively. These machines are equipped with a constant speed camshaft. Non-productive operations such as the feeding, collet closing and turret indexing, together with the actuation of optional attachments such as synchronous drive, are very rapid and always correctly synchronized with the other machine operations. Thus our "TR" range of automatic screw machines could be considered to be the most advanced to date.



VERTICAL SLIDES; FRONT AND REAR

Front and rear vertical slides can be fitted above the spindle, which, by their dovetail slideways, gives greater rigidity. The axial and radial adjustments are carried out with the aid of micrometer screws.

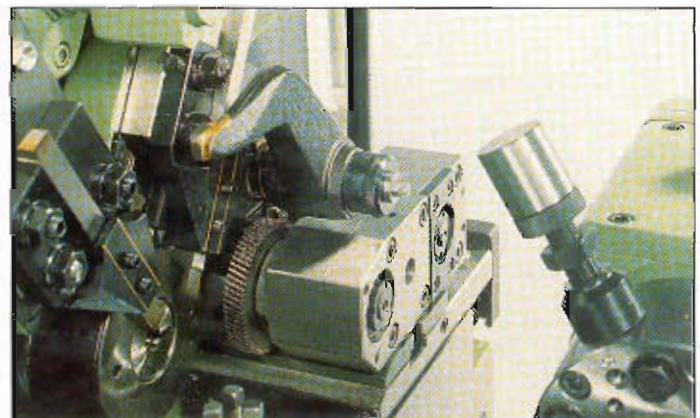


SYNCHRONOUS DRIVE

This unit is driven synchronously with the main spindle by means of a direct transmission and has a very fast and efficiency closing mechanism. This is an extremely useful attachment for those workpieces which require cutting-off without the usual "pip".

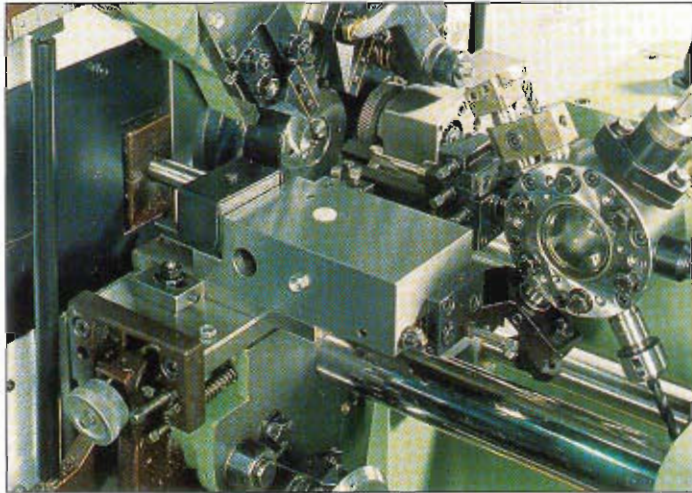
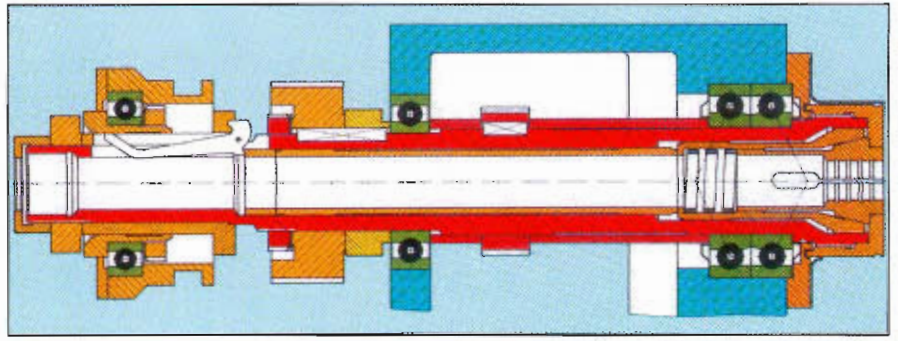
THREAD MILLING AND POLYGONAL TURNING ATTACHMENT

This attachment is used for turning polygonal flats and for milling threads on non-ferrous materials, like brass and aluminium.



SPINDLES

The TR models can be equipped with mechanical collet closing spindles for bar up to diameter 26 mm. and tubes up to 36 mm. or with hydraulic closing for collet driving or chuck diameter 70 mm. The construction of the spindles is very rigid and revolves in high-precision angular contact bearings lubricated for life.



TURNING ATTACHMENT: FRONT AND REAR

The longitudinal slide can be assembled on either the front or the rear cross slides, the maximum turning length is up to 70 mm. in both cases.

TURRET

As an option a revolver turret with capacity for six tools can be fitted. The 0,5 seconds high speed face to face indexing is operated by a GENEVA CROSS mechanism. The option to fit static or driven tools, is an answer to all the needs of our customers.

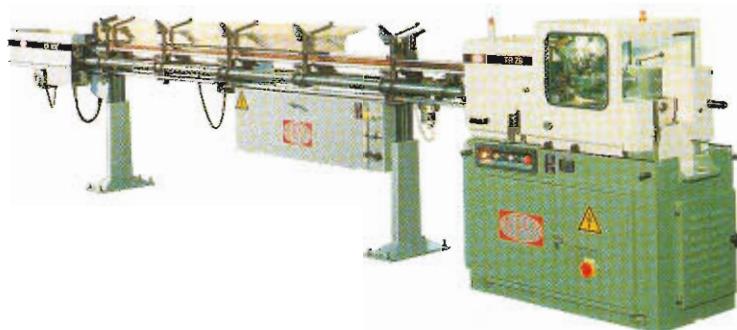
FACTORY

C.M. MUPEM, S.A. has one of the most modern plants of any European manufacturer of machine tools. The factory is situated in the Industrial Area of Itziar, in the heart of the Spanish machine tool capital, with a floor area of 10.000 square meters, on a site of 27.000 sqm. the factory is equipped with extremely modern equipment and has excellent access and communications. This plant, together with our forty years of experience in the field of turning, guarantee the quality of our products.



CUSTOMER TRAINING

An important aspect in the success of any installation is the indepth training of the customer. C.M. MUPEM, S.A., offers complete training tailored to the needs of each customer. This can be carried out in the MUPEM factory or in the customer's workshops, according to preference. Short maintenance courses are also available.



TOTAL AUTOMATIC PROCESS

For machining large batches in total automatic process or very long workpieces which consume bars in a short time period, the TR lathes can be equipped with our Automatic Bar Loaders, which allow the feeding and change of bars without stopping the output. The short time needed for changing the bar and the possibility to fill the magazine storage rack, without interruption of the machine cycle, improve the efficiency of the operation and reduces operator's attention.

CHARACTERISTICS

MODEL		TR-16	TR-26	TR-26-P	TR-36	
Capacity	- Through spindle using DIN 6343 collets					
	* round	up to mm.	16	26	-	36
	* hexagonal	up to A/F	13	22	-	30
	* square	up to A/F	11	18	-	25
	- Max. diameter of chuck clamping	mm	-	-	70	-
	- Turning length with turning attachment	up to mm.	70	70	70	70
	- R.P.M. of the main spindle	from r.p.m. to r.p.m.	770 8.400	450 4.600	450 4.600	415 4.250
	- Production range	parts/min. "	0,33 40,4	0,33 40,4	0,33 40,4	0,33 40,4
Cross slides	- Front/rear stroke	up to mm.	35/35	35/35	35/35	35/35
Vertical slides	- Front/rear stroke	up to mm.	35/35	35/35	35/35	35/35
Revolver turret	- Stroke	mm.	80	80	80	80
	- Operation time	sec.	0,5	0,5	0,5	0,5
	- Number of positions		6	6	6	6
	- Hole diameter	inch.	3/4"	3/4"	3/4"	3/4"
Turret tool drive	- Motor power	kW	0,50	0,50	0,50	0,50
	- Number of driven tools		6	6	6	6
Synchronous drive	- Bar capacity	mm.	16	26	26	36
	- Length	mm.	100	100	100	100
	- Distance between main spindle collet and synchronous drive spindle collet	mm.	20÷170	20÷170	20-170	20÷170
Thread milling device	- Exterior diameter of thread	up to mm.	25	25	25	25
	- Thread length	up to mm.	22	22	22	22
	- Thread pitch	up to mm.	2	2	2	2
Polygon turning attachment	- Dimensions across flats	up to A/F	19	19	19	19
	- Maximum flat width	mm.	6	6	6	6
Drive motor	- Power	kW	2,2	2,2	2,2	2,2
Coolant equipment	- Tank capacity	l/min.	80	80	80	80
Dimensions and weights	- Weight of machine	Kg.	980	980	980	980
	- Floor area required	m.	1,7x0,8	1,7x0,8	1,7x0,8	1,7x0,8

• Other optional attachments

- Cross milling attachment in the rear cross slide.
- Manual centralised lubrication.
- Automatic centralised lubrication.
- Thread rolling attachment.
- Self opening die head.
- Self opening rolling head.
- Drilling and threading device by differential drive system from turret.
- Tailstock.
- Workpiece elevating device.
- Workpiece collector.
- Wide range of component feeding systems.
- Braking, positioning and indexing of the main spindle.
- Silent bar feed.
- Automatic bar feeder.
- Bar loaders for machining workpiece ends.
- Hydraulic clamping of material.
- Two and three jaw chuck for TR-26-P.
- Swarf conveyor.
- Auxiliary swing stop.
- Wide range of tool holders.

Our policy is one of continuous improvement of our products. In order to maintain this policy, we reserve the right to modify specifications of this brochure without previous notice.



CONSTRUCCIONES MECANICAS MUPEN, S.A.

Poligono Industrial de Itziar - G 1

Tel.: +34-43 - 19 91 92 - 222 / 252 / 282 / 312 - Fax: +34-43 - 19 92 21

20829 ITZIAR - DEBA (Guipúzcoa)

- 61 - 20870 ELGOIBAR (Spain)