TECHNICAL FEATURES

MIKRAMAX 16 MIKRAMAX 26 MIKRAMAX 36

SPINDLE				
ROUND BAR MAXIMUM CAPACITY		16	26	36
SPINDLE SPEED (RPM)		8500	6000	4500
MAIN MOTOR	ASYNCHRONOUS W/ SPEED VECTORIAL VARIATION			
RATED POWER		5,5 / 7,5 kW		
CLAMPING COLLET		DIN 6343		
GANG TYPE MAIN SLIDE				
No OF TOOLS		6 MAXIMUM (Depending on options)		
TOOLHOLDER SHANKS		1" (Ø25,4mm) or VDI-20		
Z AXIS MAXIMUM TRAVEL (Z1)		180 mm		
Z AXIS FEED SPEED (Z1)		15 m/min		
X AXIS MAXIMUM TRAVEL (X1) X AXIS FEED SPEED (X1)		200 mm 30 m/min		
SUBSPINDLE (OPTIONAL)			30 11/1111	
ROUND BAR MAXIMUM CAPACITY		26		36
SUBSPINDLE SPEED (RPM)		26 6000		36 5000
MAIN MOTOR		SYINCHRONOUS W/ PERMANENT MAGNETS		
RATED POWER		2 kW		
CLAMPING COLLET		DIN 6343		
DRIVEN TOOLS FOR MAIN SLIDE (OPTIONAL)				
No OF TOOLS		1, 2 ó 3 (Dependiing on versions. Please contact us)		
RATED POWER		2 kW		
MAXIMUM SPEED		5000 RPM		
MAX TURRET				
No OF TOOLS			8	
TOOLHOLDER SHANKS	VDI TURRET	4x VDI-20 / 4x	1-1/4" (31,75 mm). In	ternal cooling.
Z AXIS MAXIMUM TRAVEL (Z2)		112		
X AXIS MAXIMUM TRAVEL (X2)		72		
Y AXIS MAXIMUM TRAVEL (Y1)		105		
INDEXING TIME BETWEEN FACES			0,4 s	
DRIVEN TOOLS FOR TURRET (OPTIONAL)				
RATED POWER		1,3 kW		
MAXIMUM SPEED SECOND OPERATION UNIT (OPTIONAL)			6000 RPM	
No OF TOOLS			4	
Z AXIS MAXIMUM TRAVEL (Z3, Optional)				
TOOLHOLDER SHANKS		1" (Ø25,4mm) ó VDI-20		
COOLING SYSTEM		·	(020,4111) 0 00120	,
			80 l.	
FLOW RATE				
PRESSURE		UP TO (4 + 1,5 bar). For high pressure, please contact us.		
MACHINE DIMENSIONS				
OCCUPIED AREA			(see picture)	
MAXIMUM HEIGHT (DOOR OPENED)		2.400 mm		
HEIGHT TO SPINDLE CENTER (APROX, DEPENDING ON LEVELING)		1.120 mm		
NET WEIGHT APROX.			2.200 kg	
Note: Due to our continuous improvement policy, MUPEM keeps the right of				
modifying features of its machines without notice.				

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MUPEM Automatic Lathes · Poligono Industrial de Itziar, G1 Apartado 61 - 20870 Elgoibar 20829 ITZIAR-DEBA (SPAIN) Tlf.: +34 943 199 192 / 943 199 222 / 943 199 252 / 943 199 312 · Fax: +34 943 199 221 · e-mail: mupem@mupem.com





MIKRAMAX Multiaxis CNC lathe

MIKRAMAX

Automatic CNC multiaxis lathe

INTRODUCING **MIKRAMAX** FAST AND FLEXIBLE

Great versatility, small occupied area and great capacity of performing simultaneous operations. MUPEM has used these three conditions for the conception and final design of **MIKRA**MAX.

A machine capable of machining the most difficult parts and finishing them in both ends, thanks to its Y axis and a sturdy subspindle.

But **MIKRA**MAX not only can replace a complete cell of machines, but it can work as fast as they do, avoiding, in addition, to create stock in process.

This can be achieved because **MIKRA**MAX can perform up to 3 simultaneous machining operations, and it can produce long or short parts, due to the

MIKRAMAX36

possibility of ejecting them through the subspidle shaft.

All this advantages added to the rigidity given by a fixed head machine.





HE MOST SOPHISTICATED ONTROL SYSTEM. HE EASIEST PROGRAMMING.

MUPEM CNC Control System is especially designed for multiaxis and multislide CNC lathes. The way it is programmed is much simpler than ISO code and multichannel management is much easier, synchronizing easily simultaneous operations.

The user interface, based in a tactile screen, is so intuitive that all operators, no matter how much they know about programming or lathes, will be able to operate it in just a few days.

In addition, it has a built-in CAD editor which allows to draw profiles easily for interpollation turning, at a glance, avoiding many lines of code.



But not only it is fast when building a new program. Editing existing programs is also very easy and fast. With the advantage of cut-paste blocks with simultaneous operations, withouth losing their coordination, allows a fast and secure operation.

Optionally, the machine can be equiped with FAGOR 8070 multichannel CNC system. It allows ISO programming and it is required if the machine is going to equip C axis control for spindles. FAGOR maintains a extense service net all over the world.

MIKRAMAX

Automatic CNC multiaxis lathe

THE MULTIFUNTION LATHE

The great versatility of MUPEM's MIKRAMAX is based in its 8 station turret with movements in the three axes (X2, Y1, Z2). With it, you will have a full working machining center integrated in your lathe.

The turret, electronic and bi-directional, has 4 VDI-20 stations for fix tools and another 4 1-1/4" (Ø31,75 mm) stations for driven tools. These big holes allows big shafts for driven tools toolholders, adequate for transmiting the required torque towards the motorised tools.

In addition, all stations equip integrated cooling.

The long travel of the Z2 axis allows the turret to work over main and subspindle, which allows both spindles to take advantage of machingin with a long Y axis travel and transverse driven tools.

Therefore, cotter pins, side drills off the center, milling, fat faces, orbital milling/drilling/threading and many other complex operations can be made over the main and subspindle.





MIKRAMAX

Automatic CNC multiaxis lathe

- Hardened and grinded spindle.
- Ultra precision bearings with service life grease.
- Designed to accept DIN 6343 collets with quick change.
- Hydraulic clamping, with great clamping force.
- Available in bar passages of Ø16 (only pneumatic clamping), Ø26 y Ø36 mm.
- Asynchronous vectorial motor (5.5 / 7,5 kW)

- Fully perlitic cast iron basement, very strong.
- Perlitic cast iron is one of the best vibration absorbing materials for machine-tool.

- Nitrided and burnished guiding bars with a warrantied surface hardness of 1000 Vickers.
- The special manufacturing proccess, exclusively made at MUPEM, allows long lasting. Many years of service without problems.

Lots of optional devices for a great versatility:

- Thread milling and polygon turning device on the vertical turret.
- Many different toolholders, interchangeable, for the gangs in main slide and second operation unit.
- Driven tools on the main slide and on the second operation unit.
- Part ejection through the subspindle shaft or by using a part extractor.
- High pressure coolant pumping system.
- Easy to attach especial devices on the gangs due to the attachment system, either on the main slide or on second operation unit.

MUPEM's engineering department will assist you if especial devices are required: automated loading/unloading, measurement, handling... Do not hesitate in contacting us.









