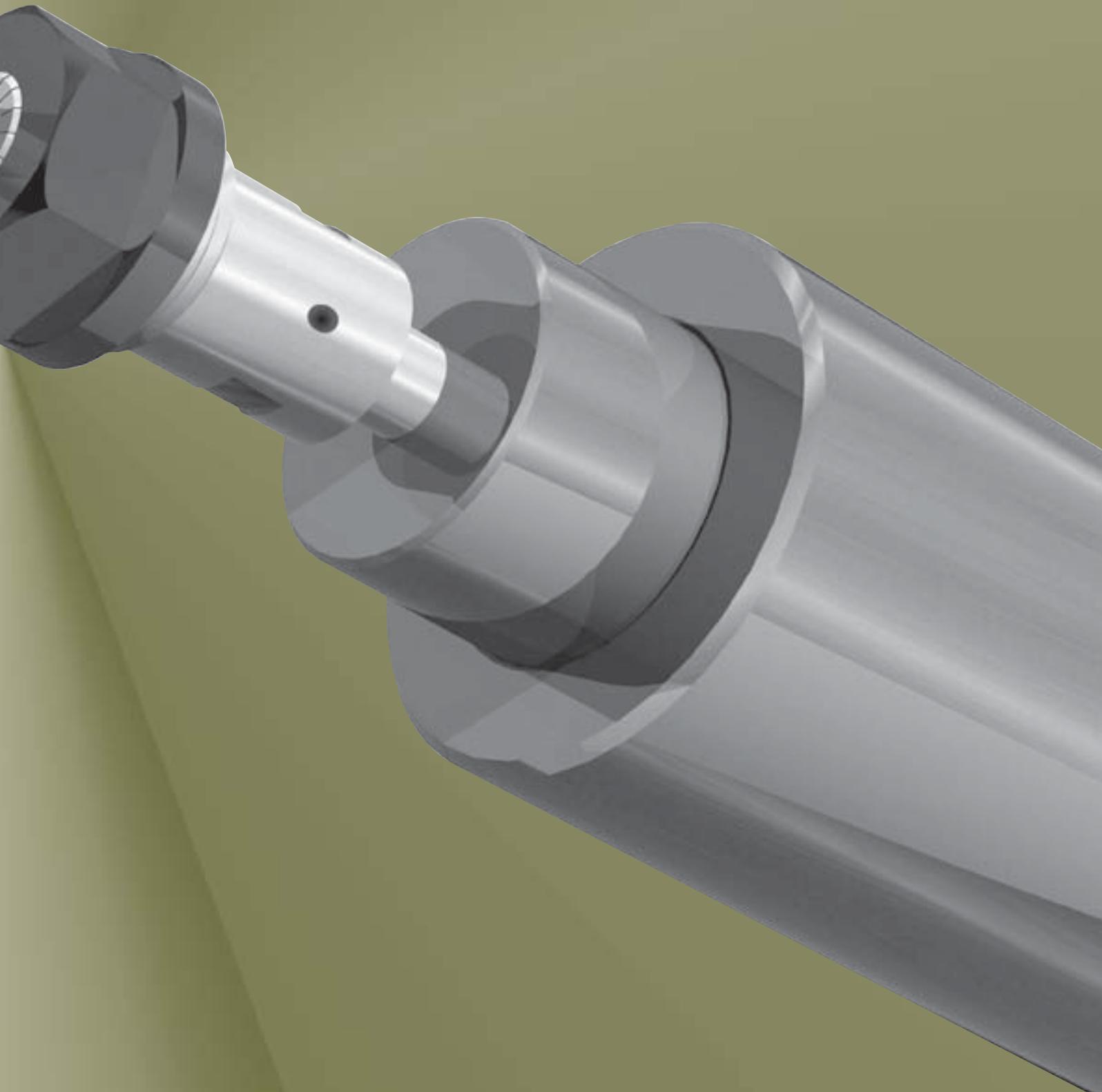


EUROMA[®]

N.C. UNITS



The F.CN.24.120 programmable unit is particularly suitable for: drilling, tapping in the standard version, use of a compensated tapping chuck is recommended), milling, reaming and spot-facing. The unit can operate in any position and can be rigidly and accurately mounted by reference to its mounting face and positioning keyway.

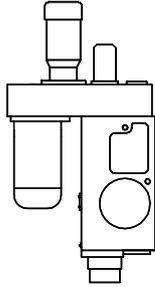
The level of protection is IP55.

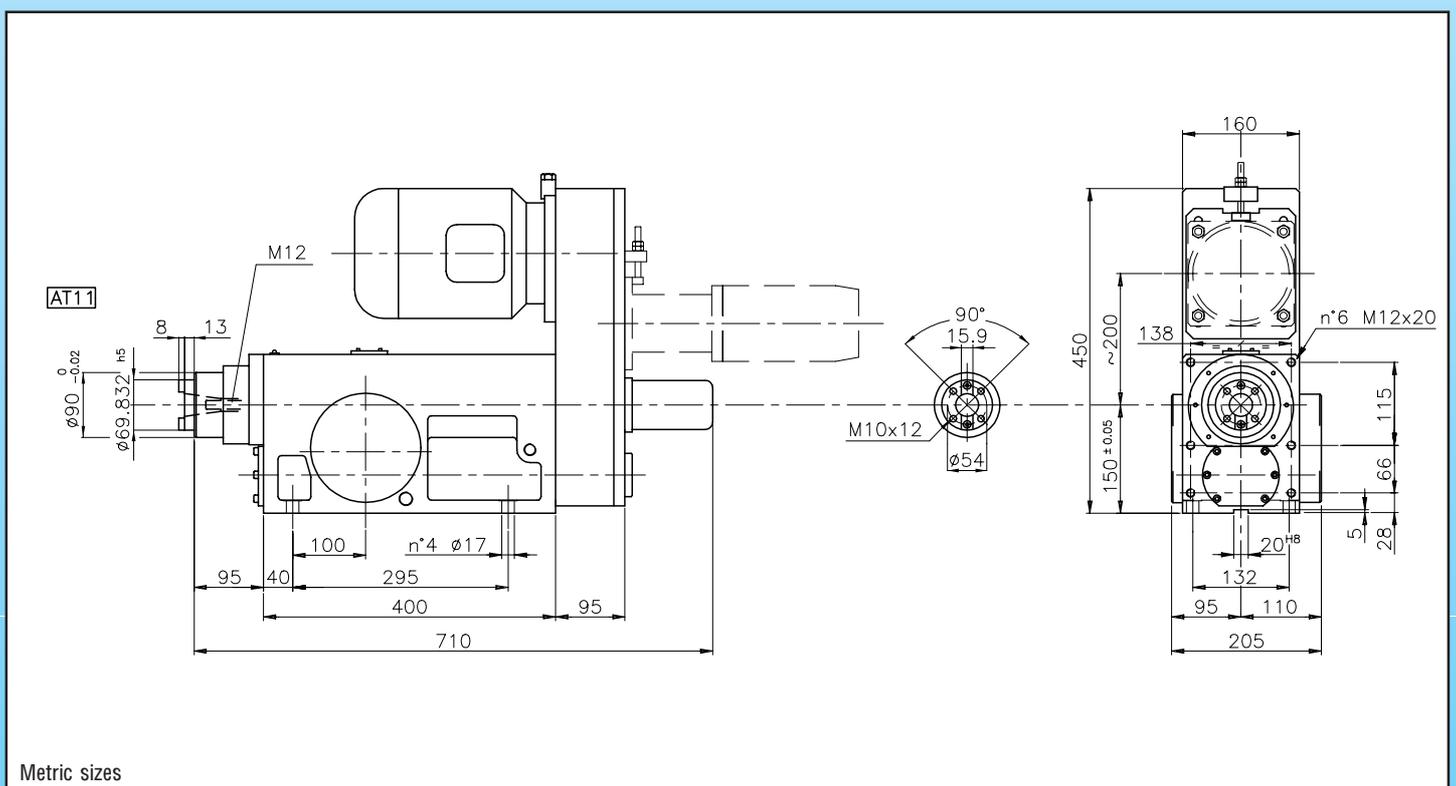
In its standard version, the unit features:

- Tool holding: ISO 30 TAPER = AT11
- Three phases, asynchronous spindle drive motor and toothed belt drive (for speed and power, see basic unit chart).
- Quill feed is via a precision rolled 25x5 mm pitch ball screw/nut, pre-loaded to zero backlash.
- One-to-one ratio toothed belt drive and provision for encoder fitted geared motor (not supplied) to be agreed with our engineering office.
- Safety front and rear end switches and "0" point switch included.

In the standard version the spindle motor speed must be regulated by a frequency variator, whilst the feed geared motor requires a drive and programming unit to control the quill feed ball screw. Please note the range of available accessories next page.



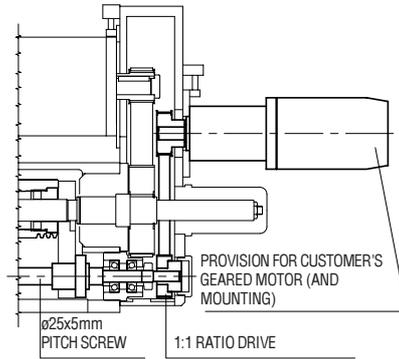
	TECHNICAL DATA									
	TOTAL STROKE mm (inch.)	DRILLING CAPACITY mm (inch.)		TAPPING CAPACITY mm (inch.)		THRUST N (lbs) for ~6 Nm torque on ball screw	WEIGHT Kg (lbs)	STANDARD COLOR RAL	ELECTRIC PORTS PG (NPT)	SPINDLE RUNOUT mm (INCH.)
F.CN24.120	120 (4.72")	MILD STEEL	ALUMINIUM R=40 BRASS R=50	M27 (1.1/8")	M39 (1.1/2")	7000 (1566)	88 (194)	7035	PG11 (1/2")	0.02 (.0008")



BASIC UNIT		SPEED	
MODEL	CODE	50Hz	60Hz
FCN24.120AT11.1000	10125010	■ 1000	1200
SPINDLE MOTOR FEATURES			
<p>■ KW 3 - 4P - 100 FRAME</p> 			
<p>Special spindle motors can be mounted on request such as: double polarity, brake, provision for brushless motors. Please consult Euroma engineering office.</p>			

NECESSARY COMPONENTS

PROVISION FOR FEED MOTOR MOUNTING



PROVISION FOR CUSTOMER'S GEARED MOTOR (AND MOUNTING)

ø25x5mm PITCH SCREW

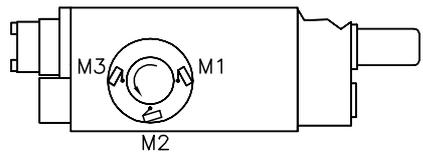
1:1 RATIO DRIVE

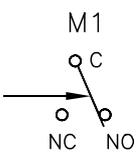
Please note:
A ~7000 N feed thrust can be achieved by driving the 25x5 mm screw a ~6 Nm torque.
Please consult Euroma engineering office.

ACCESSORIES

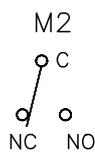
MULTI-SPINDLE HEAD	TYPE
	V Pag. 118
RIGHT ANGLE HEAD	TYPE
	FT90.24 Please consult engineering office
REDUCTION GEAR	TYPE
	R 24 please consult engineering office

ELECTRIC CONTROLS

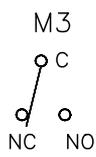




M1



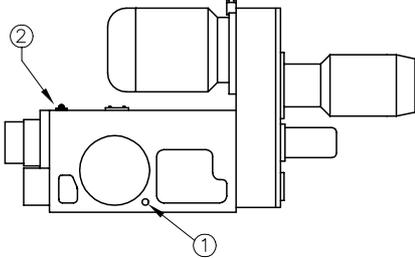
M2



M3

M1 - Rear micro-switch M2 - Position "0" micro switch M3 - Front micro-switch

ELECTRO-PNEUM./HYDR. PORTS



- 1) Electric port 1/2" NPT
- 2) Grease nipple

MICRO.SWITCHES HOUSING

FIG. 1
Right hand side housing.

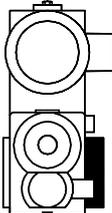
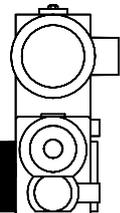
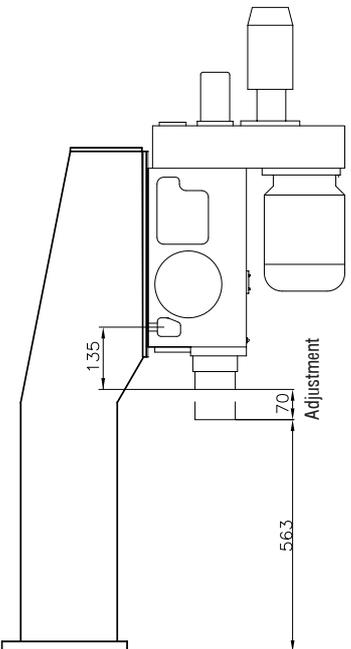


FIG. 2
Left hand side housing.



SUPPORT E.KE120 (PAG.145)



1.35

70

56.3

Adjustment

The F.CN.42.160 programmable unit is particularly suitable for: drilling, tapping (in the standard version, use of a compensated tapping chuck is recommended), milling reaming and spot-facing.

The unit can operate in any position: horizontal, vertical or at any angle.

The ISO 40 spindle is, in its standard form, supported by a set of taper roller bearing (R.C.). Set of pre-loaded angular contact bearing can be fitted on request.

In its standard version, the unit features:

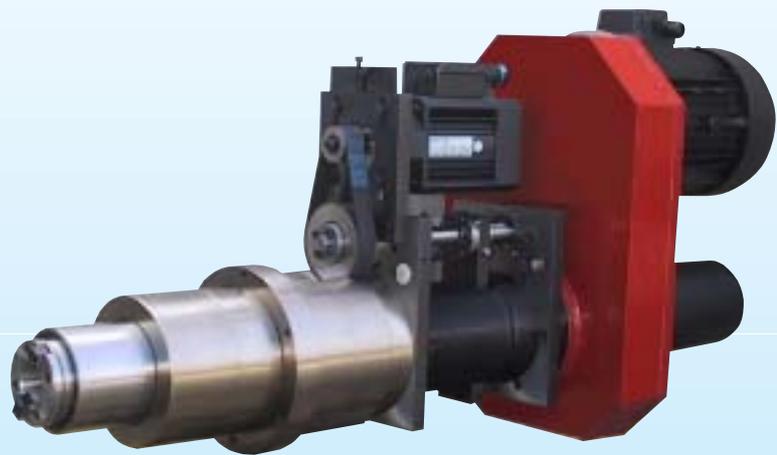
- Three phase, asynchronous spindle drive motor and toothed belt drive (for speed and power, see basic unit chart).

- Quill feed is via a precision rolled 25x5 mm pitch ball screw/nut, pre-loaded to zero back lash.

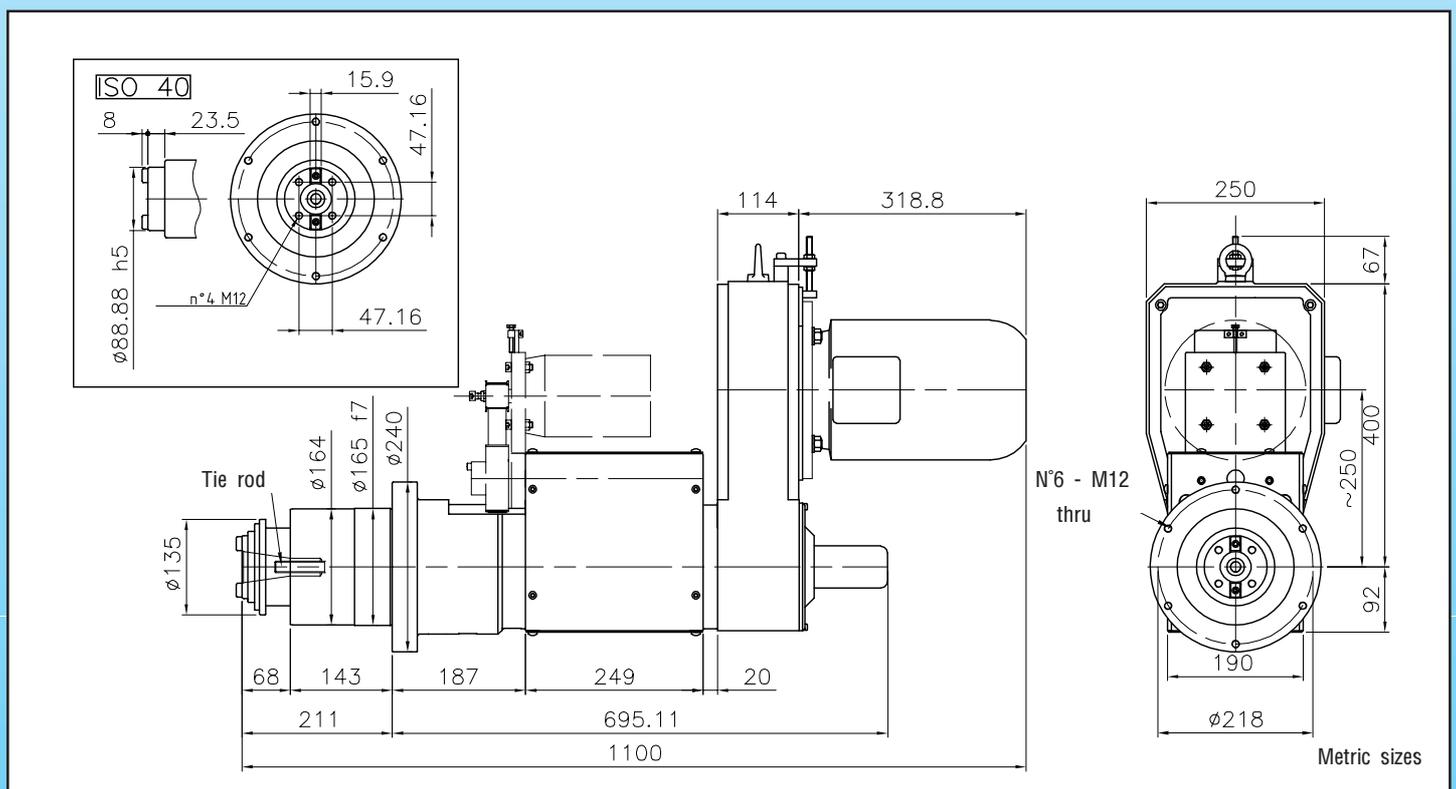
- One to 2,5 ratio toothed belt drive and provision for encoder fitted geared motor (not supplied) to be agreed with our engineering office.

- Safety front and rear end switches and "0" point switch included.

In the standard version, the spindle motor speed must be regulated by a frequency variator, whilst the feed geared motor requires a driver and programming unit to control the quill feed ball screw. Please note the range of available accessories on opposite page.

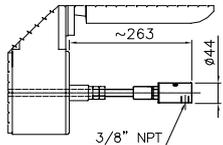


	TECHNICAL DATA									
	TOTAL STROKE mm (inch.)	DRILLING CAPACITY mm (inch.)		TAPPING CAPACITY mm (inch.)		THRUST N (lbs) for ~6 Nm torque on ball screw	WEIGHT Kg (lbs)	STANDARD COLOR RAL	ELECTRIC PORTS PG (NPT)	SPINDLE RUNOUT mm (INCH.)
		MILD STEEL	ALUMINIUM R=40 BRASS R=50	MILD STEEL	ALUMINIUM R=40 BRASS R=50					
F.CN42.160	160 (6.3")	42 (1.65")	45 (1.77")	M45 (1.1/2")	M50 (1.3/4")	14000 (3132)	140 (308)	7035	PG13.5	0.02 (.0008")

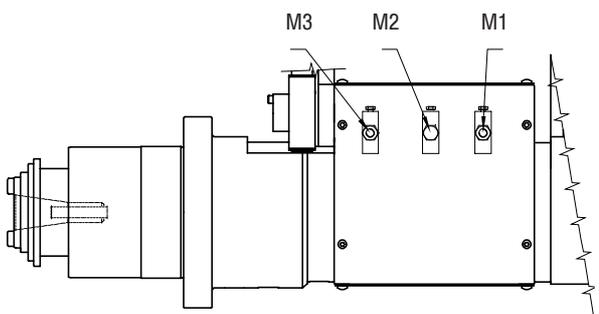


BASIC UNIT		SPEED	
MODEL	CODE	50Hz	60Hz
FCN42.160.1000.RC	10125501	1000	1200
FCN42.160.1000.CO	10125502	1000	1200

MOTOR	
STANDARD	
STANDARD (ø198) KW 3 4P 100 FRAME	
SPECIAL	
SPECIALE (ø224) KW 4 4P 112 FRAME	
Special spindle motors can be mounted on request such as: double polarity, brake, provision for brushless motors. Please consult Euroma engineering office.	

ACCESSORIES	
MULTI-SPINDLE HEADS	TYPE
	Please consult engineering office
MOTOR WITH INTEGRATED INVERTER	TYPE
	Please consult engineering office
THROUGH COOLANT FACILITY	TYPE
	Please consult engineering office

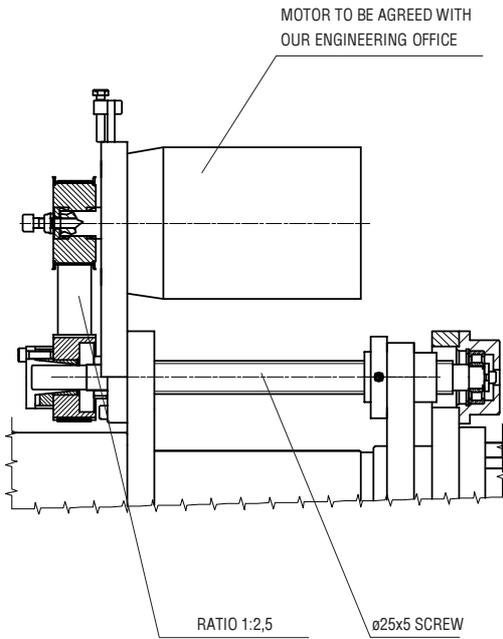
ELECTRIC CONTROLS



M1 - Rear proximity
M2 - Position "0" proximity
M3 - Front proximity

NECESSARY COMPONENTS

PROVISION FOR FEED MOTOR MOUNTING



MOTOR TO BE AGREED WITH OUR ENGINEERING OFFICE

RATIO 1:2,5 ø25x5 SCREW

Please Note.
A ~7000 N feed thrust can be achieved by driving the 25x5 mm screw a ~6 Nm torque.
Please consult Euroma engineering office.