SYSTEM CONTENTS

Congratulations on your purchase of the MICROMILL Desktop Machining System. It should provide you with many years of precision computer aided design of simple to complex parts. The following contents should be present for your MICROMILL system.

1. TAIG Desktop MICROMILL.
    a. Collet Set (1/8, 3/16, 1/4").
2. AC Spindle Drive Motor (120Vac).
    a. Motor Starting Capacitor.
    b. Pulley Set and Belt.
3. Stepper Motor driver.
4. Parallel printer cable.
5. AC power cord (120Vac).
6. Stepper motors (3).
    a. Shaft Clamps (3).
    b. Nylon Motor Coupling Tubes (12).
7. MPS2003 SOFTWARE.

LIMITED WARRANTY

The MicroMill System is under full warranty for 1 year from the date of purchase. This includes the replacement of the following:

1. Mechanical failures as the result of manufacturing defects.
2. Electronic control failures as the result of manufacturing defects.

This warranty is VOID if such failures are the result of misuse, neglect, accident, improper installation, improper application or intentional tampering with the system components.

This product has been designed and manufactured to the stated specifications to the best ability of the manufacturer. Unforeseen problems may still occur due to the complexity of such equipment and MicroProto Systems, Taig Tools or Quantum Instruments assumes NO liability for incidental damage to parts, fixtures, machines or loss of time that may result by malfunctions.

All warranty claims shall be settled in the following sequence:

1. Return damaged component or system to the factory.
2. Upon reception the working replacements shall be shipped via a ground courier. Expedited shipping shall be at the customer's expense.

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www.microproto.com

CAUTION !!

TO AVOID POSSIBLE DAMAGE TO THE ELECTRONIC DRIVER UNIT AND STEPPER MOTORS IT MUST NOT SIT IDLE WITHOUT CONTROL UNDER MPS2003 OR OTHER COMPATIABLE SOFTWARE.

DO NOT LEAVE THE DRIVER UNIT ON IF THE COMPUTER IS TURNED OFF.

Alternative Control Software

The MicroMill driver system accepts standard Step and Direction control signals. This makes it compatible with all of the available step motor control programs on the market. Some of the more popular programs being used by MicroMill customers are the following.

MACH 1 or 2
www.artofcnc.ca

A Windows control program that accepts the full set of G-codes as established by the NIST standard. It works with Windows 2000 or XP systems directly from the printer port. The cost is $150.

TURBOCNC
www.dakeng.com

A DOS based G-code interpreter. The registration cost is $20.

CNC PRO
www.yeagerautomation.com

A DOS based G-code interpreter. The cost is $200.

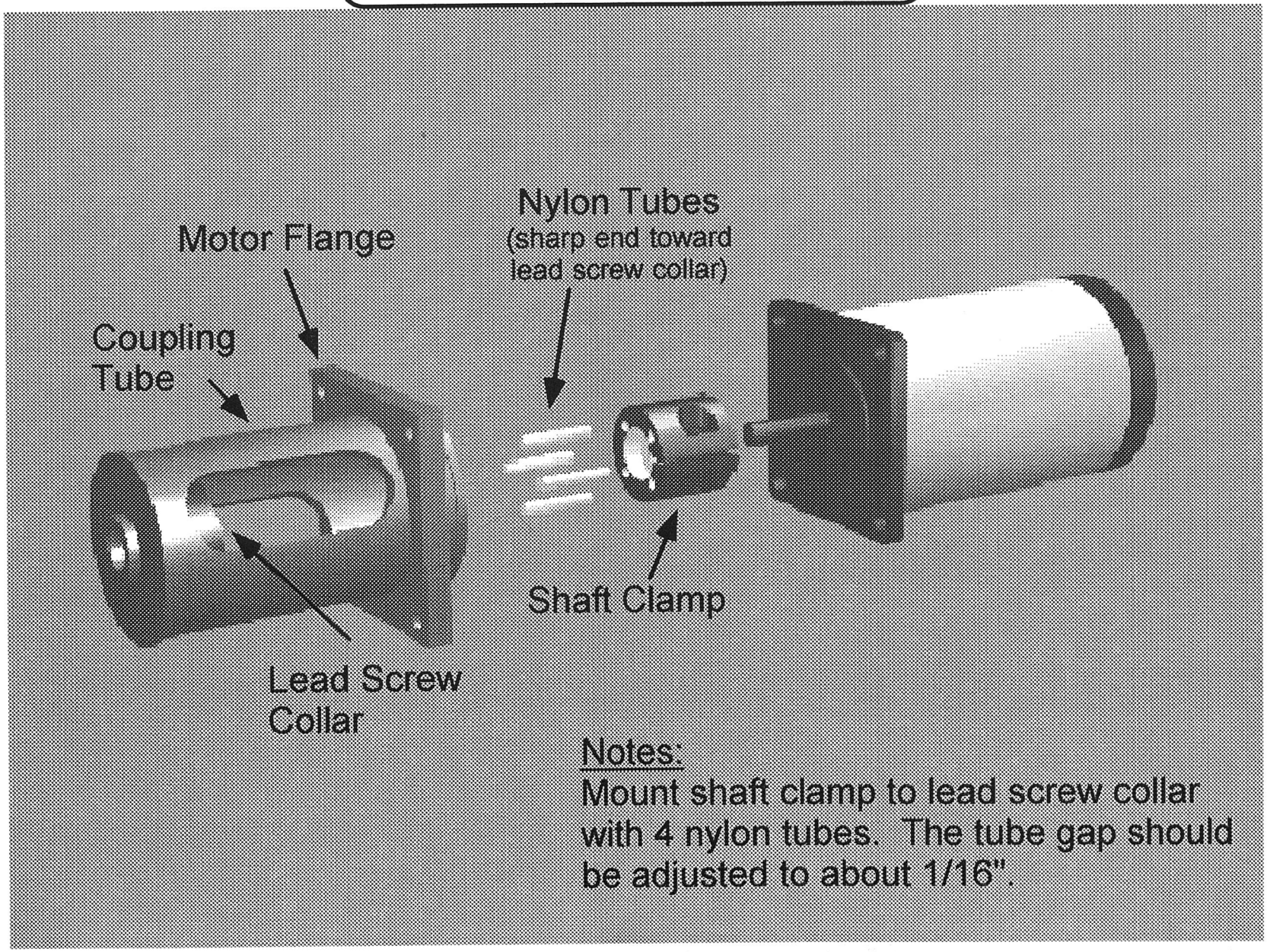
CNC ZEUS
www.cnczeus.com

A DOS based G-code interpreter. The cost is $100.

DESKCNC
www.deskcnc.com

A Windows based control program. It requires a special external microprocessor adapter board. The user must provide a little bit of wiring of this adapter board to interface it to the MicroMill driver box input. The cost of DeskCNC and the Adapter board is $325.

Stepper Motor Mounting



Notes:
Mount shaft clamp to lead screw collar with 4 nylon tubes. The tube gap should be adjusted to about 1/16".

Setting the Coupling Gap