



Professional Desktop CNC Machine DMC-III Specifications

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| Travel Distance X, Y, Z | 12" x 8" x 6" (300mm x 200mm x 150mm) |
| T slot table Size W x D | 22" x 20" |
| T slot width | 7/16" |
| Number of T slots | 5 |
| Machine Dimension W x D x H | 27" x 23" x 28" |
| Bridge clearance from table | 6.25" |
| Motion support | HIWIN 20mm linear guide rail with double blocks and final machining in pairs for each axis |
| Driver Screw | Preload 20mm ball screw with zero backlash |
| Motor driver | Micro step motor with ACT optimal digital controller *1 |
| Motion resolution | 0.00008" or 2 microns |
| Machine repeatability | 0.0001" |
| Position accuracy in the entire machining area | 0.001" Alignment for 3 axes in the entire working area |
| Slew rate X, Y, Z | 60"/m, 60"/m, 50"/m |
| Spindle | Standard ER16 with 10mm dia. (13/32") max milling bit |
| Spindle driver motor | 1/3 HP variable speed brushless digital motor |
| Spindle speed | Smoothly variable from 1,500 to 9,000 rpm directly controlled by CNC program *2 |
| Spindle motor to spindle | Pulley with timing belt isolates any motor vibration to the spindle |
| Coolant system | Ready can be controlled by CNC program |
| 4th rotation axis | Optional comes with driver, motor, and tailstock *3 |
| Total weight | 260 lb (400 lbs shipping weight includes PC and toolbox) |

*1 This micro-stepping controller was developed by ACT. We guarantee no lost-step errors in normal operation. We have tested these machines at full speed (rapids rate) in all axes continuously for many hours at a time; the motors did not get hot at all, nor was there any loss of position. There are 5 processors in each controller: one for each of the three axes, one for the spindle motor control and one for the coordination of all motions. The electronic system is thoroughly tested to eliminate over-temperature and vibrations for reliability and long life. Please see the "technologies" page of our website for more details.

*2 Optionally, you can choose an ER11 spindle with 24,000 RPM maximum speed.

*3 Our 4th axis rotary table is a high-precision optional accessory with zero backlash and 7.2 arc-sec (0.002 degree) resolution.

We offer a complete turnkey system with CNC software, collets, cables, clamp sets, tool box and compact desktop computer (without monitor) plus 2 years warranty and a 30 day return period with no restocking fee. Please call 818-363-6070 or visit our website at WWW.ACTmachines.com.