

3000M

Conversational CNC Controls For Milling



ANILAM®

ANILAM is CNC technology and people.

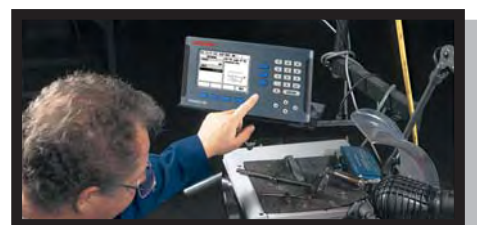
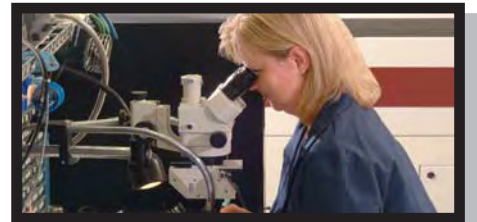
ANILAM'S headquarters and manufacturing facilities are located in Jamestown, New York. We have been providing reliable, easy-to-learn control solutions for more than 25 years.

All our products, from software to hardware, are specified and designed by ANILAM. Our design team is continually working on innovative ways to improve our products based on market input from users and machine tool builders.

We provide a complete range of CNC products, from simple-to-learn 2-axis retrofits for automating manual machines to 5-axis-plus spindle digital solutions for production machines – and everything in between. Plus, all ANILAM products come with the programming format customers prefer.

ANILAM is an international company with offices located throughout the world, maximizing the support and commitment required for today's manufacturing needs. All ANILAM offices are staffed with qualified sales engineers and technicians.

ANILAM employees are prepared, experienced, and trained to recognize and understand your application needs. We are eager to assist and support customers from the initial product specification right through to the build. Our job begins even before the sale and continues right through with support for the user for as long as they own our product.



ANILAM 3000M

Changing the way you think about controls.

The 3000M gives you more programming flexibility with hard drives that have storage capabilities ranging from large CAM-generated programs to average size daily functioning programs. These controls are configured to your needs: whether it's 2-axis, 3-axis or 4-axis.

The PC-based 3000M uses true conversational format – real machinist's language to prompt you for various movements and functions.

The addition of DSP², an enhanced motion control system, means greater increases in productivity and much higher speed machining.

Installation has been made simple. More components have been built into the console. There is only one cabinet. Electrical connections just snap in. In fact, the total installation process is 40% faster than before.



ANILAM 3000M
3-axis control
with Z-axis
(shown with
optional
equipment)



Anilam 3000M 3-axis control with
coupled 2-Axis DRO on a Bed Mill

Accuracy.

Precision-ground ballscrews with preloaded ball nut assemblies.

Unequaled Performance.

Finest, industrial grade processors ensure outstanding performance and operation in all areas of program management.

Safety.

Software limits are standard with every package. Machine limits are optional.

Hardware Options.

Autolube, precision linear encoders, electronic handwheel, remote start/stop and networking.

Powerful AC Brushless Servo Motors.

Maintains smooth operation and precise positioning.

Handwheels.

Provides all manual operations. Ideal for set up and teach modes and for machining the simplest parts.

2-, 3- or 4-Axis Upgradable.

Easily and quickly accomplished when the need arises.

For more information, visit us online at www.anilam.com today.

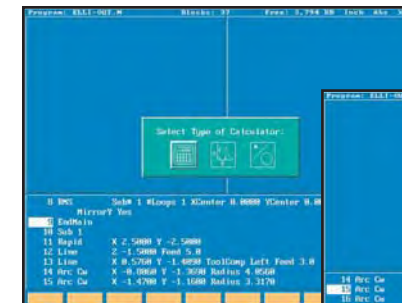
ANILAM 3000M controls set the industry's new standard by combining power and ease of use.

Simplified design.



The computer, motion control, floppy disk drive and 8.0GB hard drive are built right into the console. Plus, the new simplified design of the CNC control software includes the timer and parts counter.

Easy to use.



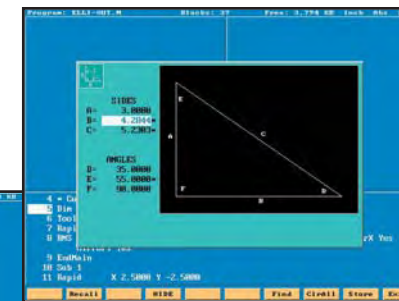
3-Mode Calculator

The 3000M has three integral calculator modes: math with trigonometry functions, right triangle, and geometry to provide CAM assistance.



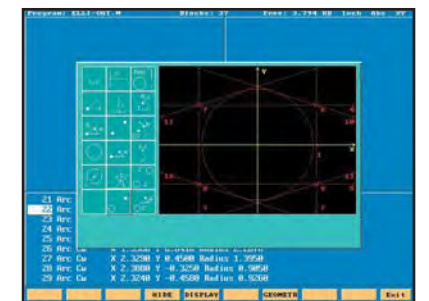
Math Calculator

Perform standard math calculations with trigonometry functions like addition, subtraction, division, and multiplication.



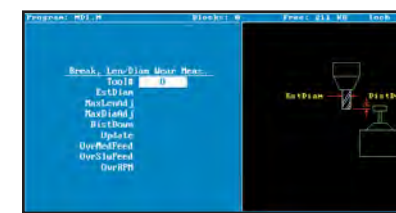
Right Triangle Calculator

The right triangle calculator allows the machinist to quickly find any side or angle of a right triangle, whenever two pieces of data are known.



Geometry Calculator

Use the geometry calculator for determining points, lines and circles, similar to a CAD/CAM system. The result automatically becomes part of the program.

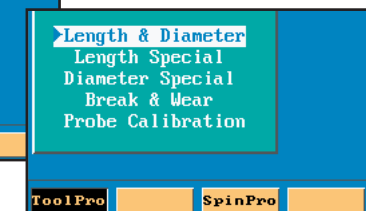


Tool and part setting

By using probing canned cycles.

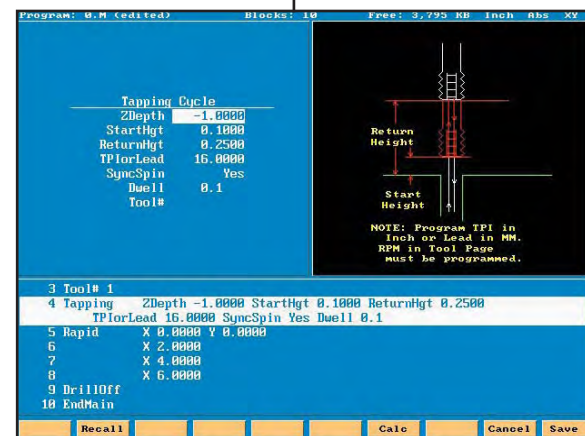


Set edge find.



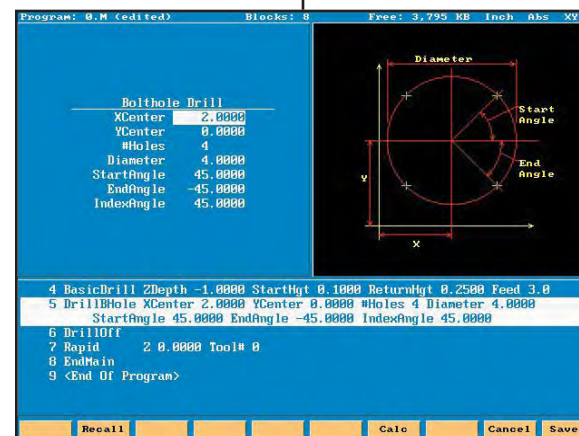
Set length and diameter.

Powerful.



Tapping

The 3000M can rigid tap with the correct machine configuration (inch or mm).



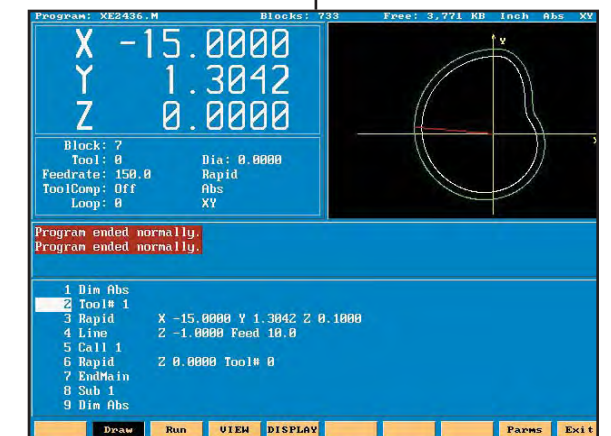
Bolt-Hole Patterns

Used to drill either full or partial bolt hole circles by filling in the first angle, number of holes and diameter of the circle.



DXF Converter

The 3000M has the ability to convert from a DXF file format and as a result, generate a conversational machine program.



DXF Converter

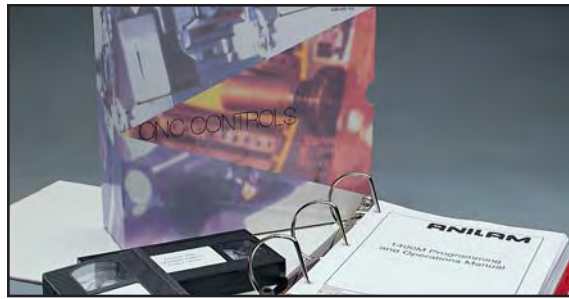
With just a minimal amount of editing, the program is ready to cut parts.

The ANILAM 3000M: from complete kits to custom configurations.

Our worldwide reputation for quality components ensures the precise, trouble-free operation of ANILAM controls. From drive assemblies to state-of-the-art circuit boards, each component has been engineered to ANILAM's standard-setting specifications. Suited to fit all your needs.



DSP²: an enhanced motion control system.
The 3000M control is equipped with DSP², an enhanced motion control system that provides significant increases in productivity by producing high speed machining.



The Anilam offline software package.



Quill Drive Assembly with Disconnect.

This rugged, durable one-piece casting incorporates Anilam's unique, time-tested and proven quill block drive design. This Z-axis down-feed assembly ensures accuracy, repeatability and can take real cuts for many years to come. The disconnect capability allows the operator to switch between 2-axis and 3-axis machining on the fly. The Z-axis servo drive unit quickly disconnects from the quill. The precision-ground ballscrew is driven by a powerful 27"lb. (3.3 Nm) AC brushless servo motor.



Quick, easy, snap-in connections.

Installation is 40% faster with these quick snap-in electrical connections.



Y-Axis Drive Assembly.

Driven by a powerful 27"lb (3.3 Nm) AC brushless servo motor (optional 41"lb., 4.6 Nm), this assembly features a tough and extremely durable one-piece machined casting.



X-Axis Drive Assembly.

A rugged one-piece machined casting guarantees years of reliable operation. Anilam's high quality kit components finish the machine with both the appearance and performance of today's finest CNC equipment.



Ball screws.

Precision ground for high accuracy.

ANILAM 3000M Specifications

General Operation	3000M-2X	3000M-3X	3000M-4X
Automatic Mode	X	X	X
Single Step Mode	X	X	X
Manual Mode	X	X	X
Background Functions (Program, Edit, RS-232 etc.)	X	X	X
.010, .005 and .001, .005 metric display res., .0005, .0002 and .00005, .0002 inch display res.	X	X	X
Feedrate display	X	X	X
Tool number, diameter and length offset display	X	X	X
Program/Distance to go Position Display	X	X	X
Loop counter and dwell time display	X	X	X
Timer and Parts counter display	X	X	X
Automatic and programmable homing	X	X	X
Integrated Motion Setup and Testing Software	X	X	X
User-friendly parameter setup with security levels	X	X	X
Machine Position Display	X	X	X
DNC (Direct Numerical Control)	X	X	X
Teach-in mode	X	X	X
3rd Axis linear encoder	Optional	Optional	Optional
Linear encoder feedback (controlled axis)	Optional	Optional	Optional
Remote Start/Stop	Optional	Optional	Optional
Remote MPG (Handwheel)	Optional	Optional	Optional
Analog spindle output	Optional	Optional	Optional
Programmable Spindle forward/reverse/off	Optional	Optional	Optional
Programmable Coolant On/Off	Optional	Optional	Optional

ANILAM 3000M Specifications cont'd.

Programming, Program Editing and Programming Tools	3000M-2X	3000M-3X	3000M-4X
Programming Input -- MDI, RS232 and Floppy Disk	X	X	X
Networking	Optional	Optional	Optional
Inch/Metric Conversion	X	X	X
Absolute/Incremental Programming	X	X	X
Conversational Programming	X	X	X
Blueprint Programming	X	X	X
Polar/Coordinate Programming	X	X	X
Help Graphics	X	X	X
Rotation	X	X	X
Mirroring	X	X	X
Scaling	X	X	X
G-Code to Conversational Converter	X	X	X
Triangle Calculator	X	X	X
Math Calculator	X	X	X
ICON Geometry Calculator	X	X	X
Plane Selection		X	X
Hot Keys on Numeric Keypad	X	X	X
Off-line Software Package (Windows 3.11, 95, and NT compatible)	Optional	Optional	Optional
Work Coordinate Offsets (with calib. Key)	9	9	9
Graphics	3000M-2X	3000M-3X	3000M-4X
Isometric, XY, XZ, and YZ View	X	X	X
Automatic Fit	X	X	X
Window Zoom	X	X	X
Real Time Draw Graphics	X	X	X
Pan Zoom	X	X	X
Tool Display	X	X	X
Simulate a Section of or the Entire Program	X	X	X
Compensations	3000M-2X	3000M-3X	3000M-4X
Number of Tools in Library	99	99	99
Diameter/Radius, Length Offsets	X	X	X
Length Offset Calibration (input to table)	X	X	X
Leadscrew Compensation (direct input from file)	X	X	X
Backlash Compensation	X	X	X
Linear Compensation	X	X	X
Computer, Motion Control and Interface	3000M-2X	3000M-3X	3000M-4X
INTEL Pentium CPU, 166 Mhz	X	X	X
DRAM	8 MB	8 MB	8 MB
DRAM Upgrade to 16MB, 32MB or 64MB	Optional	Optional	Optional
Floppy Disk Drive	X	X	X
RS-232 Port	X	X	X
Printer Port	X	X	X
Hard Drive	8 GB	8 GB	8 GB
32-bit 50 Mhz (100 Mflops) DSP2 Motion Control Board w/ CAN Bus Interface - Surface Mount Design	X	X	X
Controlled Axes	2	3	4
Programmable Spindle Axis	Optional	Optional	Optional
DRO Axis (1)	1	1	1
Block Cycle Time	5 MS	5 MS	5 MS
Block Throughput	200	200	200
Standard I/O Available	10/6	10/6	10/6
Console	3000M-2X	3000M-3X	3000M-4X
12.1" TFT Flat Screen	X	X	X
Jog Resolution Key (x1, x10, x100, Feed, Rapid)	X	X	X
Jog Keys for Controlled Axes	X	X	X
DB-25 Printer Port Access	X	X	X
DE-9 RS232 Communications Port Access	X	X	X
DB-25 Handwheel Port Access	X	X	X
Mini DIN Connector for PC Keyboard	X	X	X
Compact, Contamination-Proof Display and Keypad Enclosure	X	X	X
Console Mounting Arm	X	X	X
DE-9 Remote Start/Stop	X	X	X
Floppy Access in Console	X	X	X
Canned Cycles	3000M-2X	3000M-3X	3000M-4X
Ellipse	X	X	X
Elbow Milling		X	X
Frame Pocket Milling	X	X	X
Hole Milling	X	X	X
Circular Pocket Milling	X	X	X
Rectangular Pocket Milling	X	X	X
Full Bolt Hole Pattern	X	X	X
Partial Bolt Hole Pattern	X	X	X
Basic Drilling	X	X	X
Irregular Pocket with islands	X	X	X
Boring		X	X
Peck Drilling		X	X
Chipbreaker Drilling		X	X
Rectangular Hole Pattern	X	X	X
Spiral Helical		X	X
Mold Rotation about any Axis		X	X
Tapping		X	X
Rectangular Profile (inside/outside)	X	X	X
Face Milling	X	X	X
Circular Profile (inside/outside)	X	X	X
Kit Hardware Components	3000M-2X	3000M-3X	3000M-4X
Servo Enclosure Complete -- Populated and Ready to Bolt On	X	X	X
Servo Cabinet Mounting Hardware	X	X	X
Prewired Snap-in Cable (Console-to-Servo Cabinet)	X	X	X
Precision Ground Ballscrews	"X,Y"	"X,Y,Z"	"X,Y,Z"
Solid One-piece Machined-Casting Quill Drive Assembly		Z	Z
One-piece Machined Casting Motor Mounting Assemblies	"X,Y"	"X,Y,Z"	"X,Y,Z"
27 in/lb (3.3 Nm) AC Brushless Servo Motors	"X,Y"	"X,Y,Z"	"X,Y,Z"
Upgrade to 41 in/lb (4.5 Nm) AC Brushless Servo Motors	Optional	Optional	Optional
Motor Cables (Motor-to-Servo Cabinet)	"X,Y"	"X,Y,Z"	"X,Y,Z"
2-Axis Linear Encoder Feedback (X, Y Axes)	Optional	Optional	Optional
Ready-to-Install X,Y Limit Switch Assembly	"X,Y"	"X,Y,Z"	"X,Y,Z"
Auto-Lube	Optional	Optional	Optional
Upgrade From 2- to 3- or 4-Axis	Optional	X	X

ANILAM[®]
THE CLEAR CHOICE.

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MANUFACTURER**



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