

5000M

Conversational CNC Controls For Milling



ANILAM[®]

The ANILAM 5000 series control is everything you asked for and more. Benefit from the integrated CAM programming. Program with icon-based programming. The 5000 series is one of the most versatile milling controls available.

Ease of use

Intuitive interaction, no prior programming knowledge necessary.

Productivity

Minimum set-up times and automatic operation boost throughput.

Quality

Better finish, consistency and less scrap ensure less costs.

Versatility

More jobs to go for, more choice.

**Profitability**

Investment is paid off in almost no time, the rest becomes profit.

**Manual mode**

In manual mode, the mill can be operated just as simply as if it had been a conventional one. In addition, the 5000 series provides a wealth of data and many useful features.

**Automatic mode**

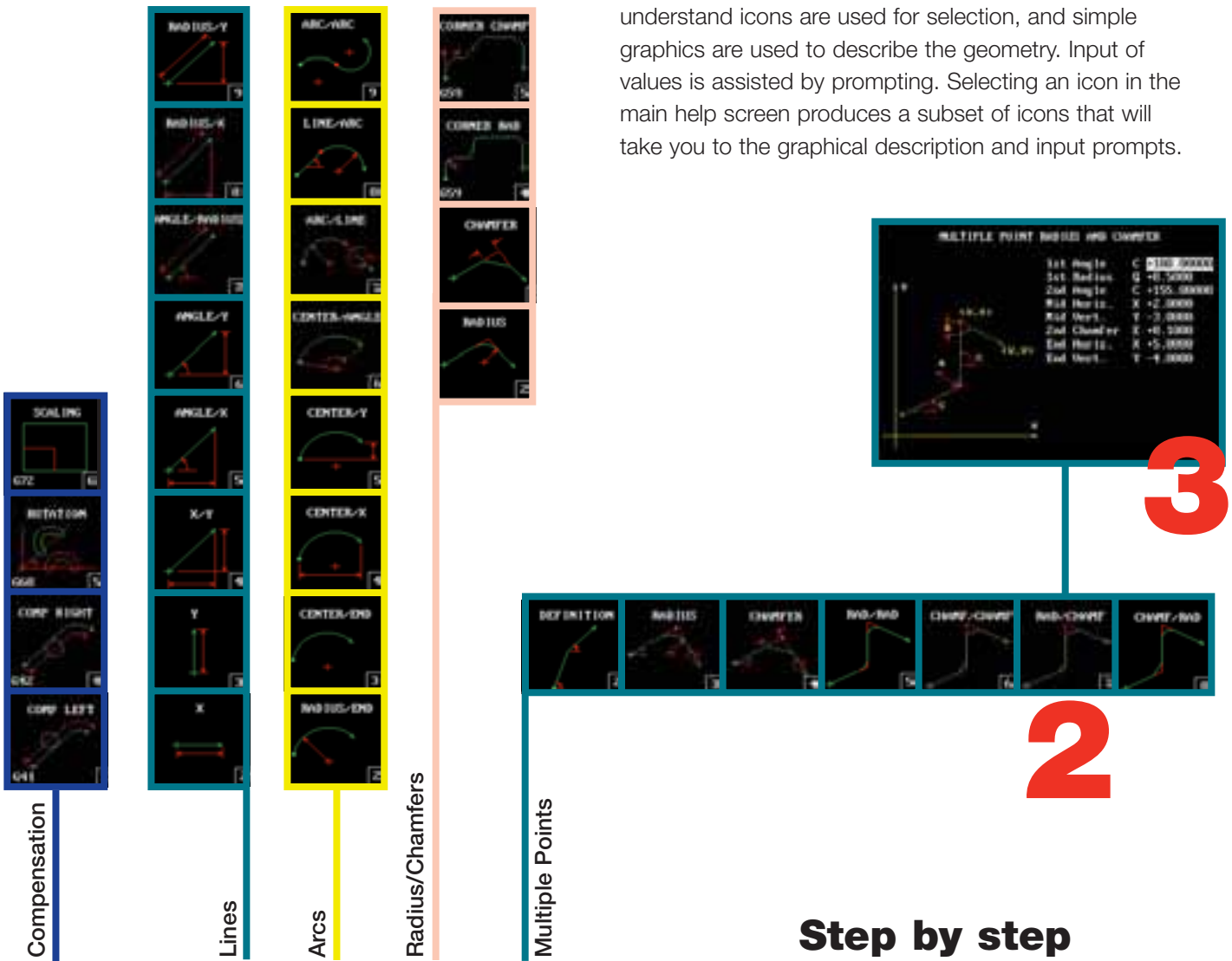
During automatic operation, the 5000 series will control everything from start to finish. The machinist has several options on how to generate the program and some very powerful programming tools are available.

Single step mode

The single step mode allows the machinist to go through all or part of the manufacture by executing the program step by step.

Icon-Based Programming

The 5000 series allows conversational programming of compensation, points, shapes and cycles. Easy-to-understand icons are used for selection, and simple graphics are used to describe the geometry. Input of values is assisted by prompting. Selecting an icon in the main help screen produces a subset of icons that will take you to the graphical description and input prompts.



Step by step

Multiple points with radius and chamfer.

- 1** Select the type of move by icon in the main screen.
- 2** Select the exact shape of the move by icon.
- 3** Enter values as prompted.

From this main screen, you can specify compensation, define geometrical segments, and access canned cycles, just by selecting the corresponding icon.



OEM Systems: 3, 4 and 5-Axis

CNC OEM components that are easy to build into a new machine for 3, 4 and 5-axis.

The 5000 series configuration is complete with a console, computer chassis, manual panel, and remote floppy drive – all designed to build into your machine.

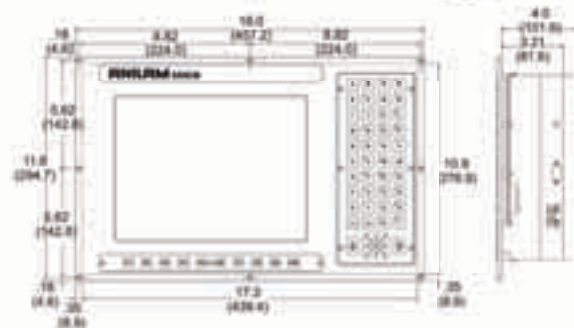


Pictured is the 12.1" Color Monitor



12.1" active matrix TFT flat-panel display

The console has a 12.1" active matrix TFT flat panel display standard. The console features a full alphanumeric keypad and softkeys for the on-screen menus.



I/O Module

ANILAM's CAN-bus driven I/O-modules can be added as needed. Each module has 10 inputs and 6 outputs (one output can be traded for an analog input) and come as either sink or source. The I/O-module can be mounted remote, where it is needed, and fits in standard DIN-rail holders.

General Specifications

- | | |
|------------------------------------|--|
| 4 Automatic mode | 4 Dwell, time or revolutions |
| 4 Single step mode | 4 Multiple part zero shift |
| 4 Manual mode | 4 Block search/Block start |
| 4 Feedrate/Spindle speed overrides | 4 Background functions (Program edit, RS-232 etc.) |

Kit Systems: 3 and 4-Axis

With ANILAM's easy-to-install CNC kit systems, you'll find everything you need to fit on your existing machine. Order as much or as little as needed. Our components are time-tested in the market for over 20 years – you can depend on their reliability and endurance.



Hardware to mount the console to your machine.



In the case of non-rigid head applications, ANILAM provides a quill drive assembly for the Z-axis. This rugged, durable, one-

piece casting incorporates ANILAM's unique, time-tested and proven quill-block design. The assembly holds a powerful servo motor and a precision-ground ballscrew for smooth and fast operation.



Precision linear encoders are available as an option for feedback. Using linear encoders optimizes the position accuracy by effectively eliminating backlash.

Ready-to-install limit switch assemblies are available suitable for a variety of machines. ANILAM promotes safety by using both software and hardware limits.



ANILAM ballscrews for X- and Y-axis are precision-ground with preloaded ball nut assemblies. There is a measured set for every machine tool.



One of the most convenient features of ANILAM's CNC controls is how easy they are to install. With just a simple snap of a connector, your CNC machine can be ready to operate and improve your productivity in hours!



ANILAM offers powerful DC servo motors for driving the axes. Standard torque is 31 in-lb (3.5 Nm), but 41 in-lb (4.5 Nm) motors are also available.



For the drive of the X- and Y-axis, rugged one-piece machined castings guarantee reliable and accurate operation.



The control will automatically handle the lubrication of the machine. ANILAM offers an Autolube hardware option for this purpose.

Several optional remote devices can be supplied for manual operations. The remote Start/Stop and the remote electronic handwheel are ideal for set up and teach modes. ANILAM's new Handy Pulser has electronic handwheel, axis selection and resolution switches, all in one.



Hardware platform

Pentium CPU, 166 MHz	•
DSP, 32-bit 50MHz floating point processor	•
DRAM	8MB or 16MB
DRAM 32-64MB	Option
Floppy disk drive in console	31/2", 1.44MB
Hard disk drive in console	8GB or more
Networking, Ethernet (RJ-45)	Option
Servo enclosure	•
Servo cabinet mounting hardware	•
Prewired snap-in cable (console-to-servo cabinet)	•
RS-232 port (DB-9)	•
Printer port (DB-25)	•
External PC keyboard connector (DIN)	•
Axis feedback inputs (rotary/linear, DB-15)	3
Handwheel inputs (DB-9)	1
Universal power supply (90-250VAC)	•

Interfacing

I/O CAN-bus interface	•
Dedicated I/O for manual panel functions	5/1
Available I/O's (2 analog inputs optional)	10/6
Optional I/O expansion (4 analog inputs optional)	40/24
ANILAM IPI programming	•

Setup support

Motion/setup/testing utility	•
Auto-tuning	•
Diagnostics	•
I/O status	•

5300MK/DLX: X, Y, Z 5400MK: X, Y, Z, U

Kit Components and Options	5300MK	5300MK DLX	5400MK DLX
Spindle forward/reverse/off	Optional	•	•
Coolant on/off	Optional	•	•
Remote start/stop	Optional	Optional	Optional
Remote MPG (handwheel)	Optional	Optional	Optional
Analog spindle output	Optional	Optional	Optional
Precision ground ballscrews	X, Y, Z	X, Y, Z	X, Y, Z
Solid one-piece machined casting, quill drive assembly (includes limit switch)	Z	Z	Z
One-piece machined casting, motor mounting assemblies	X, Y	X, Y	X, Y
31 in-lb (3.5Nm) DC servo motors	X, Y, Z	X, Y, Z	X, Y, Z
Upgrade to 41 in-lb (4.5 Nm) DC servo motors	Optional	Optional	Optional
Motor cables (motor-to-servo cabinet)	X, Y, Z	X, Y, Z	X, Y, Z
Linear encoder feedback (X, Y axes)	Optional	Optional	Optional
Ready-to-install, limit switch assembly	X, Y	X, Y	X, Y
Auto-Lube	Optional	Optional	Optional
Upgrade from 3- to 4-axis	Optional	Optional	