

# 4200T

## Conversational CNC Controls for Turning



**ANILAM**<sup>®</sup>

The ANILAM 4200T turning control is everything you asked for. And more. Use it as a DRO in manual mode. Use the semiautomatic, dual handwheel mode to cut in arcs and angles. Or, use it as a powerful CNC. Program it in teach-in mode. Program it with canned cycles. Use conversational programming, or even G-codes. The 4200T is the most versatile turning control available.

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**Ease of use**

Intuitive interaction, no prior programming knowledge necessary.

**Productivity**

Minimum set-up times and automatic operation boost throughput.

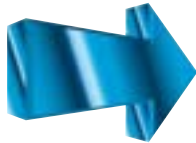
**Quality**

Better finish, consistency and less scrap ensure less costs.

**Versatility**

More jobs to go for, more choice.

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**Profitability**

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



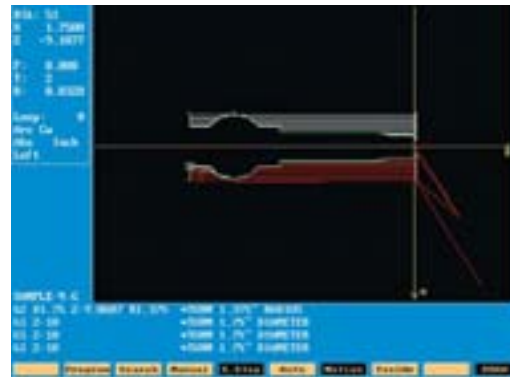
**Manual mode**

In manual mode, the lathe can be operated just as simply as if it had been a conventional lathe. Up to two electronic handwheels can be connected to run the axes. In addition, the 4200T provides a wealth of data and many useful features, for example constant surface speed (CSS).



**Semiautomatic mode**

The dual handwheel mode allows the machinist to cut in perfect arcs, tapers and chamfers. As only one hand-wheel is cranked, the 4200T will precisely control both axes to produce the desired shape.



**Automatic mode**

During automatic operation, the 4200T 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 machining process by executing the program step by step.

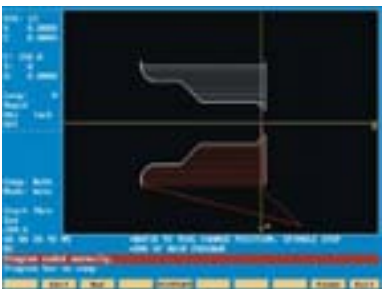
# Programming Formats



The 4200T has a conversational programming utility. You don't have to have any prior programming experience. Screens are icon-based and you are prompted for data input. The intuitive interaction makes the control easy to learn.

As an alternative, the 4200T can be programmed direct in G-codes. This enables utilization of some sophisticated features such as parametric or variable programming. The 4200T has a help mode where G-codes are explained in clear text.

## Programming Tools



### Teach-in

In Teach-in mode, the machinist can manufacture the part manually while the 4200T records the corresponding program. Programming could not be easier. Additional parts can be manufactured in automatic mode.

### Shape Editor

Any shape can be defined in the shape editor. Icons are used to select standard geometrical segments which, combined together, will form the desired shape. It is easy to build the shape as graphics simultaneously show the progress. The shapes generated can easily be used in combination with canned cycles.

### Canned Cycles

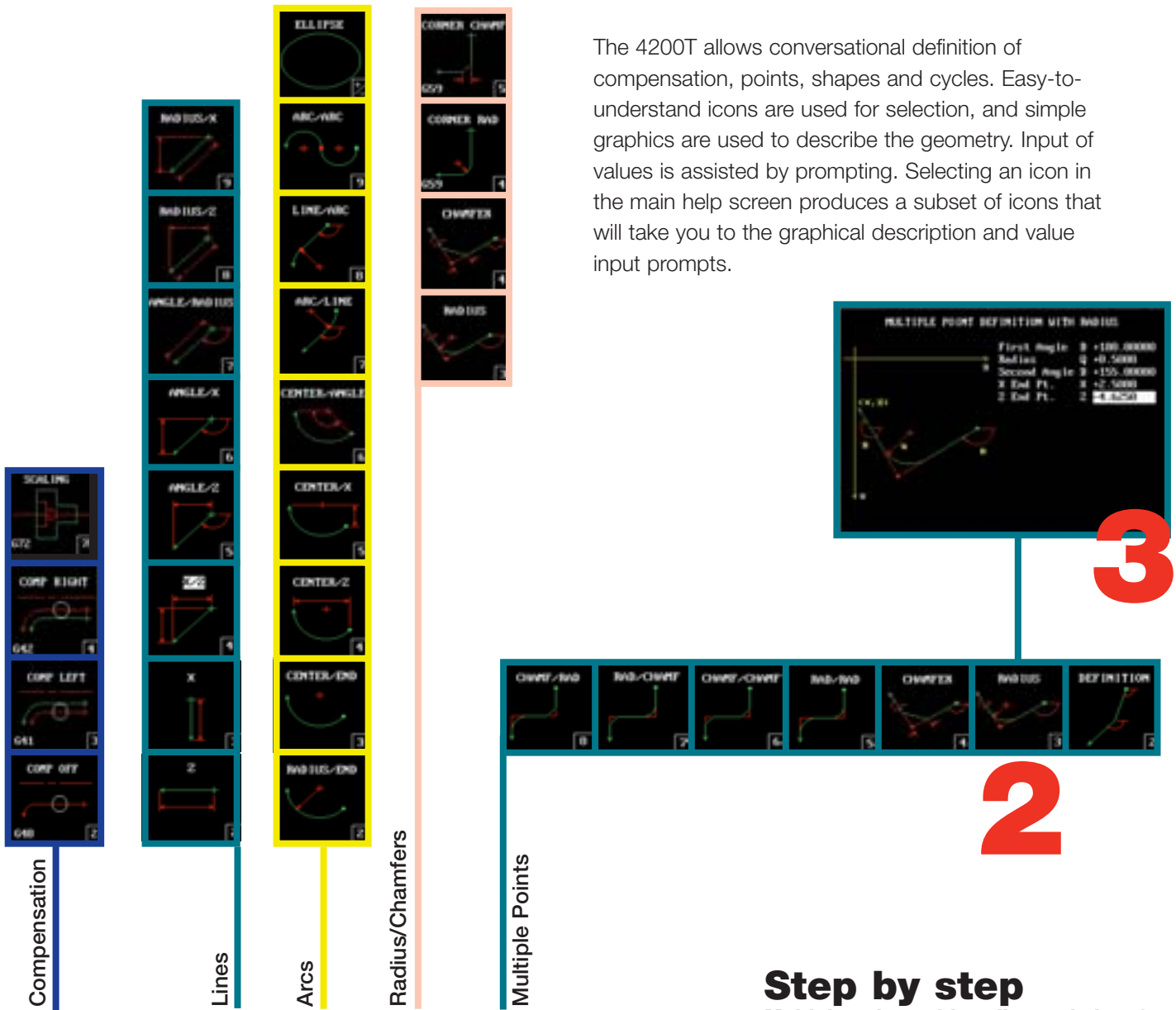
The 4200T has an extensive set of preconfigured cycles. Only a few parameters need to be specified to complete the program. The control will prompt for the required data with reference to simple graphical illustrations.

### Draw Mode

When the program is completed, the draw graphics mode can be used to verify the part before machining it. Then simply edit the program if needed.

# Icon-Based Programming

The 4200T allows conversational definition 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 value 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.



## Easy to build into any lathe.

The 4200T configuration is complete with a console, computer chassis, manual panel, and remote floppy drive – all designed to build easily into your machine.

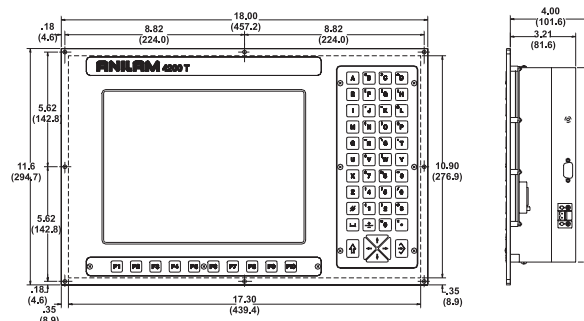


Pictured is the 12.1" Flat Panel Display



### 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

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|--|---|
| 4 Automatic mode                         | 4 Feedrate/Spindle speed overrides                    |
| 4 Single step mode                       | 4 Dwell, time or revolutions                          |
| 4 Semiautomatic<br>(dual-handwheel) mode | 4 Multiple part zero shift                            |
| 4 Manual mode                            | 4 Block search/Block start                            |
| 4 Consistent surface speed (CSS)         | 4 Background functions (Program edit,<br>RS-232 etc.) |