

6000i

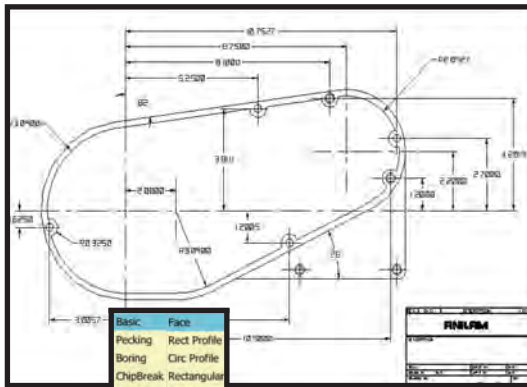
High Speed Digital CNC Package



High Speed Contour Control ¥ Conversational ¥ G-Code ¥ DXF Converter
USB Support ¥ Solid Graphics ¥ Conversational Canned Cycles ¥ Ethernet Networking

ANILAM®

Conversational Programming

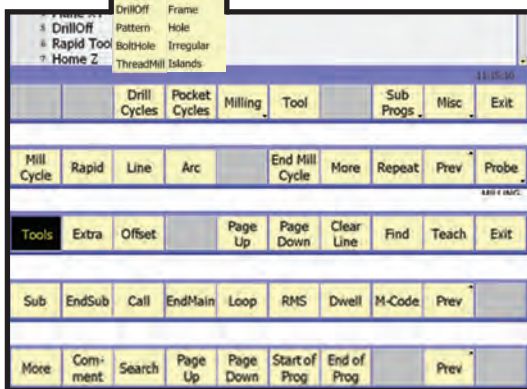
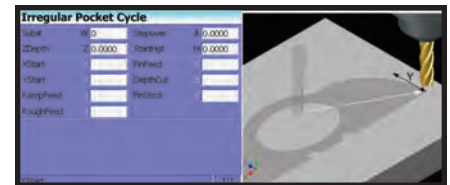


Part Print

From the part print to the completed component takes just a few short steps.

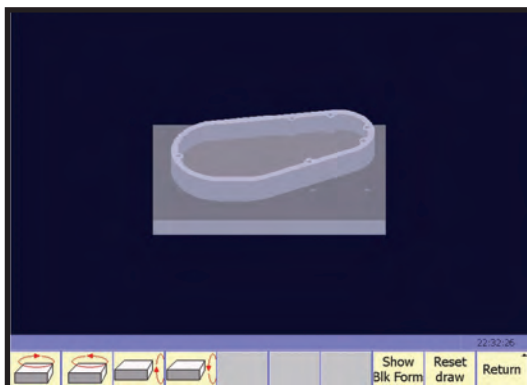
Conversational Program Input

Using the conversational programming language, a full compliment of canned cycles can be used to program complex parts directly at the machine tool.

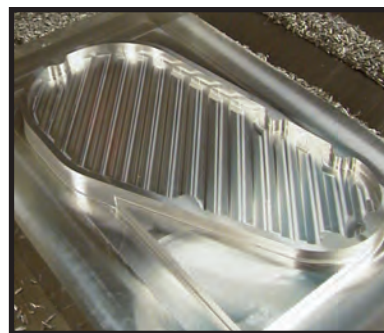


Draw Graphics Simulation

Part programs can be viewed in the Draw Graphics View screen. The graphics may be viewed in **plain view**, **3-D view**, **3 view cross section** for complete program verification prior to the machining operation.



Completed Component



With advanced path control algorithms that include polynomial based interpolators, monitoring of dynamic contour deviation, high speed cutting filters, and look ahead parts can be produced 100% faster than comparable controls offering superior machine time without sacrificing performance or part finishes.

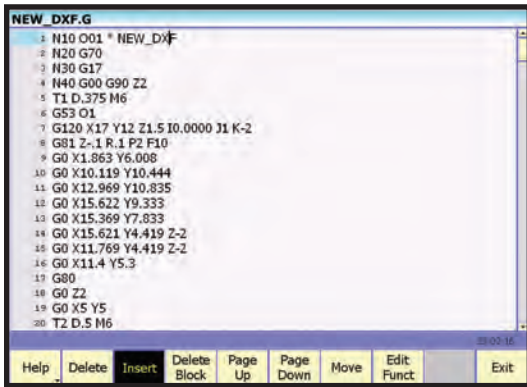


DXF Converter Feature

Import a DXF file and use the DXF converter feature to easily create a CNC conversational or G-Code program.

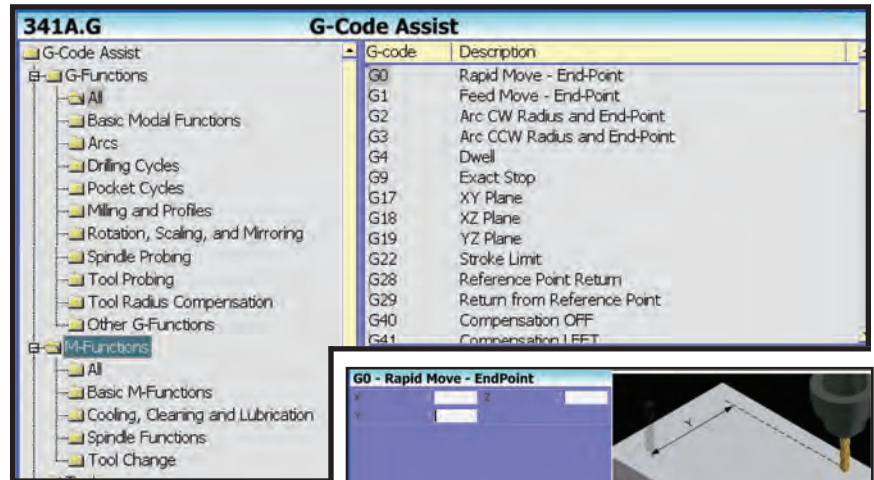
* **Basic and and Advanced Canned Cycles** are always standard in the ANILAM 6000i. We have an extensive set which can be used to make the programming of routine machining jobs fast and easy.

Standard G-Code Programming



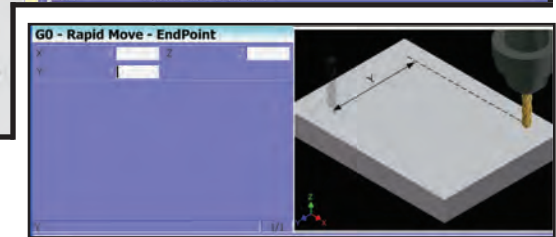
Full Screen Editing

Experienced G-Code programmers will appreciate the 6000i full screen program page. Advanced editing operations such as cut, copy, find, change word, etc., and make program changes fast and easy. Macros and parametric capability is standard.

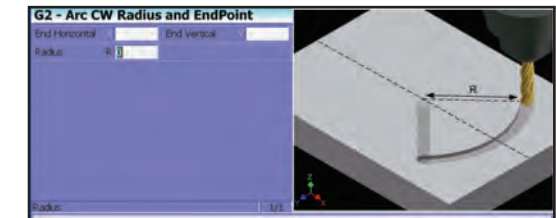


G-Code Assist

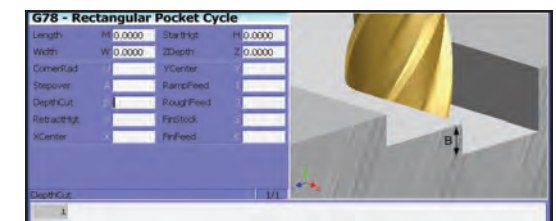
New users can take advantage of the Help Menu to create entire G-Code programs. Help is available for any programmable function, from a simple rapid move to complex pocketing cycles. The operator is provided with a graphical reference, and prompted for necessary inputs.



Line Help



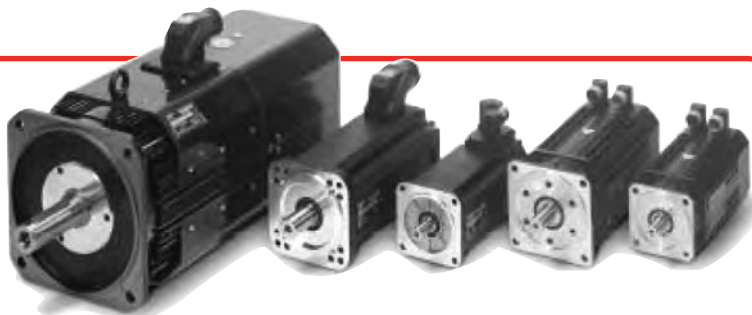
Arc Help



Canned Cycle Help



Canned Cycle Help



Motor Specification

Spindle Motor Specifications

- Rated Power - 5.5 kw to 24.0 kw
- Rated Speed - 8,000 rpm to 12,000 rpm

Axis Motor Specifications

- Stall torque - 5.2 Nm to 26.1 Nm
- Rated speed 2000 rpm - 4500 rpm

6000i Features/Technical Data

GENERAL OPERATION

Automatic mode	•
Single step mode	•
Manual mode	•
Enhanced file management	•
Resolution 0.010, 0.005, 0.002 and 0.001 mm	•
Feedrate in feed per minute	•
Feedrate display	•
Spindle speed display	•
Max rapid rates (m/min./1min)	50/2000
Automatic accelerate / decelerate	•
Exact stop and contouring mode	•
Active modal display	•
Tool number, diameter and length offset display	•
Message display	•
Program / Position distance to go	•
Loop counter and dwell time display	•
In position indicator	•
Automatic homing	•
Spindle orientation	•
Mid-Program block start and block search	•
Programmable block skip	•
High speed dry run and dry-Run with no Z	•
Programmable spindle forward / reverse / off	•

PROGRAMMING, EDITING & TOOLS

Programming input - MDI, RS232, USB and ethernet	•
Inch / metric conversion	•
Absolute / incremental programming	•
Conversational programming	•
G-Code programming	•
Polar / Cartesian coordinate programming	•
Help graphics	•
Zero point setting	•
Rotation	•
Mirroring	•
Scaling	•
Corner rounding	•
Corner chambering	•
Programmable safe zones	•
Parametric programming	•
Modal subprograms	•
Subprograms with repetition	•
Plane selection	•
Timed and infinite dwell	•
Full screen G-Code programming	•
Find	•
Replace	•
Scroll through program	•
Undo / redo	•
Save edits / quit without saving	•
Macro programming	•
Standard blk operations (copy, cut, paste, etc.)	•
Off-line software package	Optional
DXF Files	•

PROGRAM MANAGEMENT UTILITIES

Create	•
Delete	•
Copy	•
Rename	•

GRAPHICS

Isometric view	•
XY view	•
XZ view	•
YZ view	•
3D solid modeling	•
Definable block form	•

COMPENSATIONS

Tool diameter / radius, length offsets	255
Length offset calibration (input to table)	•
Leadscrew compensation direct input from file)	•
Backlash compensation	•
Linear compensation	•
Fixture offsets	255

CANNED CYCLES

Frame pocket milling	•
Hole milling	•
Circular pocket milling	•
Rectangular pocket milling	•
Bolt hole pattern	•
Basic bore	•
Unidirectional bore	•
Flat bottom bore	•
Basic drilling	•
Area clearance	•
Rectangular hole pattern	•
Basic counter bore	•
Peck drilling	•
Chipbreaker drilling	•
Helical	•
Rectangular plunge	•
Circular plunge	•
Rigid tapping	•
Non-rigid tapping	•
Draft angle pocket	•

CONSOLE

Active matrix TFT display	12.1"
Full alpha-numeric keyboard	•
Function keys	•
Conversational keyboard	•

COMPUTER, MOTION CONTROL AND INTERFACE

Dual Processor design	•
400MHz processor (minimum)	•
Ethernet networking	100MB
DRAM (minimum)	512MB
Hard drive (minimum)	40GB
USB 1.1	2+
RS-422 port	•
RS-232 port	•
Controlled axes	3
Spindle axis control	•
P filtering with feed forward and jerk control	•
S-curve acceleration profile	•
Handwheels	•
Standard I/O available	31/31
Additional I/O provided via expansion I/O module	256/128
Programmable I/O (PLC)	•

MANUAL PANEL

MPG	Optional
Start and stop keys	•
Spindle forward, reverse, off keys	•
Servo reset key	•
E-stop	•

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