



**J E T**®

# ZX CNC LATHE

**EMPOWERING SHOP PERFORMANCE**

**JETTOOLS.COM**



**J E T**

## ZX CNC LATHE

This new Jet ZX CNC lathe takes the best features of our top line manual lathes and adapts the Anilam 4200T CNC system to control the various turning actions. Then CNC control is designed for ease of use and intuitive interaction, which means no prior programming experience is needed. A Shape Editor allows drawing a part graphically and creating the tool path without programming. A Tool Page provides graphical description of 99 tools, so the operator can specify tool radius, length and wear offsets, etc.

The longitudinal and cross feeds are driven by servo motors. This lathe is especially suited for machining step axles or sleeve workpieces. It can also machine tapers, do circular curves and automatic threading. The turret will raise, revolve, position, clamp and change tools automatically.

The lathe has a Tech-in mode, in which a part may be turned manually while the 4200T control records the corresponding program for later replication.

**THIS IS THE PERFECT LATHE FOR  
MAINTENANCE OR PRODUCTION USE.**

# THE ADVANTAGE



## DEPTH AND BREADTH OF LINE



- JET offers a range of manual Belt Drive & Geared Head Bench Lathes, Engine Lathes, and Large Spindle Bore Lathes and is now introducing our CL-1640ZX-CNC Lathe.
- JET will customize your lathe for you, we will install DRO's, Collet Closer and Taper Attachments or combinations so your JET lathe is ready for use when it hits your shop floor.

## QUALITY



JET lathes are built and tested in our factories to deliver consistent quality and tolerances.

## INNOVATIVE PRODUCTS



- JET is committed to ongoing innovation demonstrated in the NEW CNC Lathe.
- JET's ZX Lathes have many innovated features such as the casted one piece cast iron base to absorb vibrations during heavier cuts, Universal gear box that allows threading with no gear change and the chip tray is in the front which allows the machine to be placed against the wall where space is an issue, just to name a few!

## PROFESSIONAL MANUALS



JET manuals are professionally written by engineers for ease of use. All manuals come complete with parts breakdown and electrical drawings.

## INDUSTRY LEADING WARRANTY



JET offers a 2 Year Warranty; the longest warranty in the industry, confirming our confidence in the quality of our design and workmanship.



### RELIABILITY

- U.S. Customer Service
- Industry Leading Warranties



### EXPERTISE

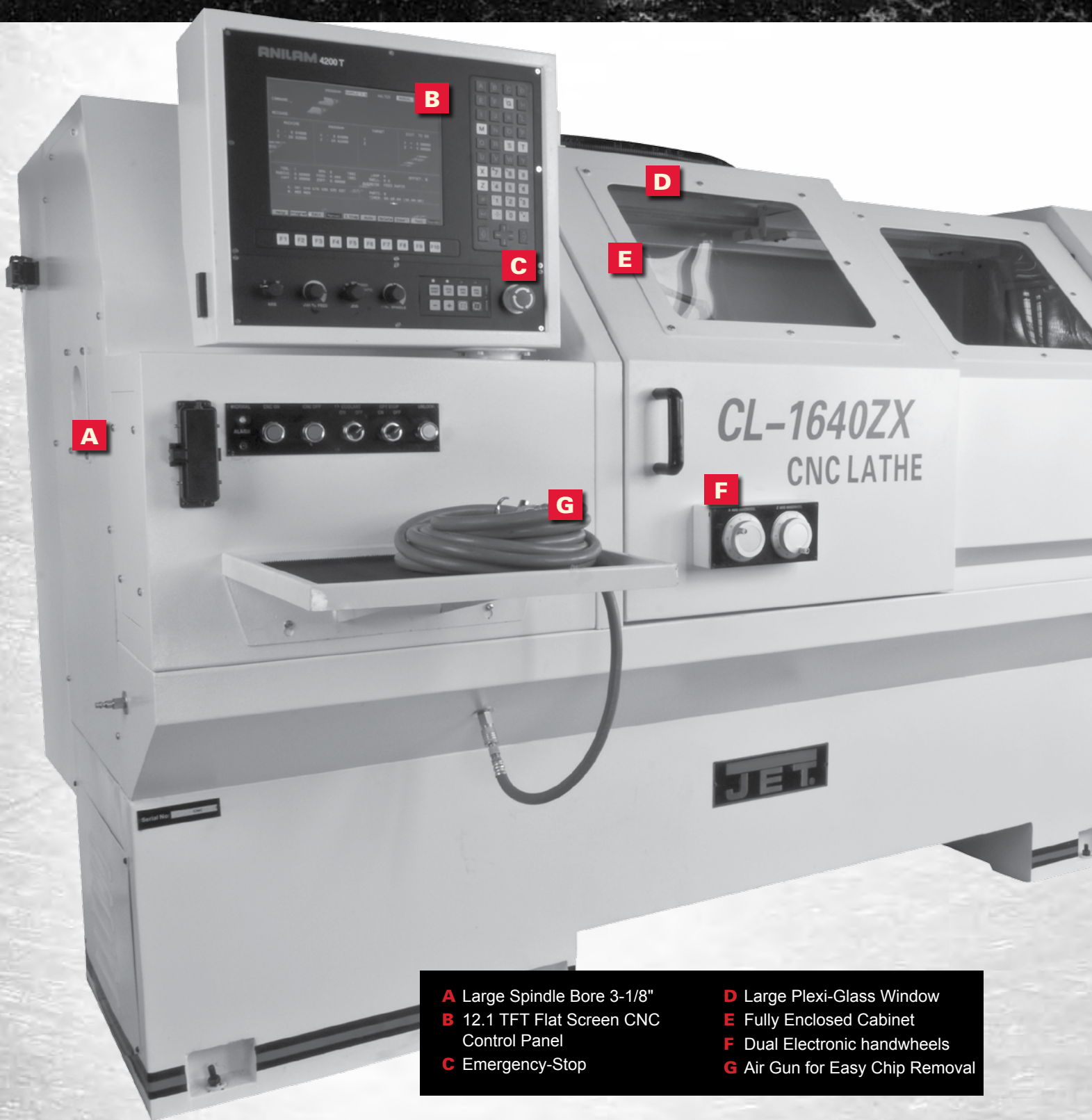
- U.S. Tech Support
- Authorized Service Centers In All 50 States



### DEPENDABILITY

- Extensive Online Resources
- 40,000+ Unique Parts In Stock

# TURNING OVERVIEW



- A** Large Spindle Bore 3-1/8"
- B** 12.1 TFT Flat Screen CNC Control Panel
- C** Emergency-Stop

- D** Large Plexi-Glass Window
- E** Fully Enclosed Cabinet
- F** Dual Electronic handwheels
- G** Air Gun for Easy Chip Removal

**FREE** IN-HOUSE BASIC  
**4 HOUR** CONTROL ORIENTATION  
FROM ANILAM

## **JET LATHES ARE DESIGNED, ENGINEERED AND BUILT WITH OUR CUSTOMERS IN MIND.**

With increased productivity, efficiency and reliability, you will see a quick return on your investment.

With a tradition of innovation and quality, JET has maintained the confidence of our customers for over 50 years. Whether a Fortune 500 manufacturer or small machine shop, we drive to develop machines that are more efficient, last longer, and allow you to be more productive.

JET and Anilam team up to bring you the most exciting new CNC lathe in the industry. With the best of the JET lathes and Anilam control (which is made in the USA) both supported by USA based Customer and Tech Service we can't be beat.

The Anilam 4200T controls are packed with features unlike any in the market –

- Powerful yet simple to use
- Can be programmed using -
  - G-Code
  - Conversational Help Assistant
  - Draw in the "Shape Editor"
    - Editor can be operated manually
    - Teach mode
    - Slave –(ability to do Line/radius using one Hand Wheel)
    - SCI Mode – (Simplified Command Interface)
    - Advanced Canned Cycle features
- Dual Processor Design
- 8GB Memory
- Compact Flash File Transfer
- 12.1" TFT Flat Screen
- Back Ground Programming
- Networking/Ethernet Option
- Many more standard control features

# TURNING

# CL-1640ZX-CNC FEATURES

## FEATURES

- Anilam 4200T with 12.1 TFT Flat Screen CNC Control
- Dual electronic handwheels for manual control
- Hardened and precision ground bed ways
- High alloy gears hardened, ground and honed
- 3-Bearing spindle support
- Automatic homing
- Easy access chip removal
- 4 Station Programmable Turret
- Automatic lubrication system
- Coolant system with 5.5 gallon coolant tank
- Teach In Mode
- 255 Pairs of Tool Offsets
- Rigid Tapping is Standard
- Turcite B on carriage sliding surfaces

## STANDARD EQUIPMENT

- Tool box and tools
- Fully enclosed Cabinet
- 10" 3-Jaw Scroll Chuck
- Steady Rest
- Work lamp



# CL-1640ZX-CNC SPECIFICATIONS



STOCK NUMBER	320930
Model Number	CL-1640ZX-CNC
Swing over Bed (in.)	16
Swing Through Gap (in.)	25-7/8
Distance Between Centers (in.)	40
Spindle Bore (in.)	3-1/8
Spindle Mount	D1-8
Spindle Taper (w/ Sleeve)	MT-7 (MT-5)
Range of Spindle Speeds (RPM)	80 - 2000
Rapid Feed, X-Axis (in./min.)	394
Rapid Feed, Y-Axis (in./min.)	315
Max Tool Size (in.)	1 x 1
Cross Slide Travel (in.)	9
Carriage Travel (in.)	35
Tailstock Spindle Travel (in.)	6
Taper in Tailstock Spindle	MT-4
Steady Rest Capacity (in.)	3/8 to 7
Width of Bed (in.)	13-1/4
Motor	10HP, 230V, 3Ph
Net Weight (lbs.)	5,680

**FREE** IN-HOUSE BASIC  
**4 HOUR** CONTROL ORIENTATION  
FROM ANILAM



**TURNING**

# CONTROL: ANILAM 4200T



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.



# ANILAM

**1** YEAR  
MANUFACTURERS  
WARRANTY ON  
CONTROLS

**JET**



# 4200T

## Features

- **Large 12.1" TFT Color Flat Screen**
- **Dual Electronic Hand Wheels** – For Manual Machine Operation
- **8Gb Hard Drive** – For Internal Program Storage
- **Flash Memory** – For External Program Storage and Transfer
- **Ease of Use / Intuitive Interaction** - No Prior Programming Knowledge Necessary
- **Teach-In Mode** – Manufacture the Part Manually While the 4200T Records the Corresponding Program
- **(SCI) / Simplified Command Interface** – Single Event Execution With No Programming Required
- **Tool Page / 99 Tools** - You Can Specify Tool Radius, Length & wear Offsets. Provides a Graphical Tool Description
- **DSP** – 266 MHz Dual Processor Design Provides Smooth and Fast Cutting Operations Plus, Back Ground Programming
- **Programmable by using one of 3 methods**
  - G-Code
  - Conversational Help Assist
  - Draw in the "Shape Editor"
- **Can be Operated Manually**
  - **Slave** – (Ability to do Line/Radius using one Hand Wheel)
  - **SCI Mode** – (Simplified Command Interface)
  - **Advanced Canned Cycle Features plus . .**
- **Dual Processor Design**
- **Back Ground Programming**
- **Networking / Ethernet Option**



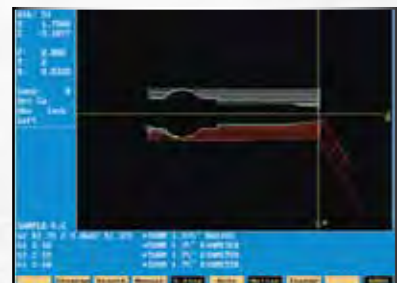
## MANUAL MODE:

In manual mode, the lathe can be operated just as simply if it had been a conventional lathe. Up to two electronic hand-wheels 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).



## SEMI-AUTOMATIC MODE:

The dual hand-wheel 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:

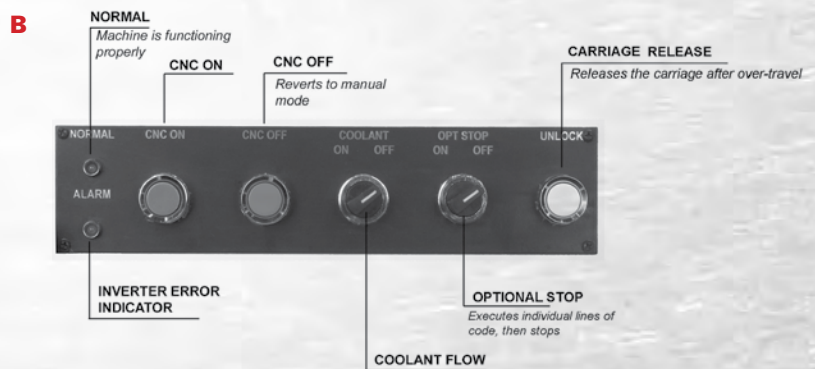
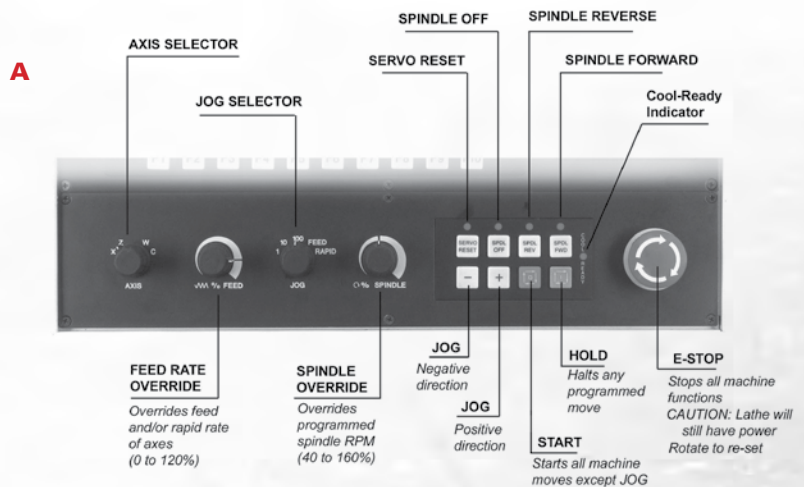
During automatic operation, the 4200T will control everything from start to finish. The machinist has several options on how to generate the program and some very powerful programming tools are available.

# BREAKDOWN OF FEATURES: ANILAM 4200T

## 4200T

### Breakdown of Features

- **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.



Electronic handwheels for initial positioning of tool.

# MARKET SEGMENTS - KEY END USERS



Tool and Die Shops



Maintenance Operations



Machine Shops



Production Floor



Trade Schools



Customized Automotive  
& Motorcycle Industry

## Machine Specifiers

The following are the key buying contacts of standard machine tools.

- Company management/owners
- Plant & production management
- Design & research engineering
- Tool room manager/foreman
- Maintenance & facility management
- Production / Industrial engineering Purchasing
- Quality control management
- Tool crib

**JET Lathes are designed, engineered and built with our customers in mind. With increased productivity, efficiency and reliability, you will see a quick return on your investment.**

**CL1640ZX-CNC sold only through authorized distributors only. Please check [jettools.com](http://jettools.com) for a dealer in your area.**

**TURNING**



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