

PROFESSIONAL TRAINING

# BOK CAD V22

## Software Training

WeiWei

Professional Clothing CAD System Operation Guide



Intelligent Pattern Making



Precision Grading



Efficient Marker Making

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# Bok CAD V22 Overview



## Software Positioning

Bok CAD is a professional computer-aided design system for apparel, integrating **intelligent pattern making**, **precise grading**, and **efficient marker making**. It is widely used in pattern design, process production, and production management in apparel enterprises. Version V22 has been comprehensively upgraded in terms of functional integrity and operational convenience.

## V22 Version Function Comparison

- **Super Enhanced Edition** Full functionality, enterprise-grade
- **Enhanced Edition** Advanced features, medium enterprises
- **Professional Edition** Core functions, small studios
- **Shared Edition** Basic functions, learning & trial




## Selection Recommendations

**Super Enhanced Edition** is suitable for large garment enterprises

**Enhanced Edition** for medium-sized enterprises

**Professional Edition** for small studios

**Shared Edition** for learning and trial use

 Choose the right version based on your business scale and requirements

# Pattern Mode: Basic Drawing Tools



## Rectangle

Press and hold the left mouse button in the blank area and drag, then enter the data after releasing.

**Operation:** Drag + Input



## Parallel Lines

Move the mouse over the line, hold down the left mouse button, drag the mouse, and enter the data after releasing.

**Operation:** Drag on the line



## Straight Line

Click the left mouse button in the blank area, move the mouse, click the left mouse button again, move again, and click the right mouse button to finish.

**Mnemonic:** Left, Left, Right



## T-square

Click the left mouse button in the blank area, move the mouse, click the right mouse button to switch to the T-square, then click the left mouse button to enter the dimensions.

**Operation:** Right-click → Left-click



## Curve

Click the left mouse button in a blank area, move the mouse, click the left button at three or more points to form a curve, and right-click to finish.

**Operation:** Three points form a curve



## Curve Adjustment

Right-click on the line (the line turns green), hold down the left mouse button and drag to adjust, control points will be added automatically.

**Tip:** Double-click control point to switch curve/polyline



## Compass

Single compass: Left-click on a point, right-click on a line.  
Double compass: Left-click one point, right-click another point.

**Operation:** Left + Right combination



## Circle

Press "O" on a point or blank area, move the mouse, click the left mouse button, enter the data, and right-click to finish.

**Shortcut key:** O



## Perpendicular Line

Place the mouse on the line, press "T" to input data, click the left mouse button, enter the line length, and right-click to finish.

**Shortcut key:** T

# Design Mode: Point and Line Editing

## Point on Line

Left-click the line, enter the corresponding parameters, and right-click to finish.

## Symmetric Point

Click the symmetric point tool, left-click the center point and line respectively, enter the corresponding data, and right-click to finish.

## Offset Point

Move the mouse to the point, hold down the left mouse button, drag the mouse to a blank area, release the mouse button, enter the data, and right-click to finish.

## Similar Line

Click the similar line tool, left-click the reference line, left-click two points in sequence.

## Half Frame

Move the mouse to the point, hold down the left mouse button, drag the mouse, place the cursor on the line or point, then release the left mouse button.

## Extension Line

Select the lines to be extended (do not select points), left-click the starting end of the extension, move the mouse, click the left button, enter the extension amount, and right-click to finish.

## Divide Point

① **Whole line division:** Place the mouse on the line, directly press 2-9 on the keyboard.

② **Two-point division:** Left-click the starting point, place the mouse on the line, press 2-9, left-click another point.

## Fillet

First click the fillet tool, then left-click one side of the right angle, then left-click the other side of the right angle, move the mouse, left-click to confirm, enter the data, and right-click to finish.



### Important Notes

The divide point function can quickly create evenly distributed points, and the symmetric point function is suitable for making symmetrical patterns, greatly improving work efficiency.

# Design Mode: Advanced Editing Functions

## Line Break H

Press the H key, left-click the line, enter the size, left-click the OK button on the dialog box.

Shortcut: H

## Corner Smoothing C

Select the two lines that need to be smoothed, then select the two stitching lines in sequence, press C, left-click the line to be modified, left-click and drag to modify, right-click to finish.

Shortcut: C

## Line Cutting Q

Hold down the Q key, left-click the cutting line, then left-click the line to be retained.

Shortcut: Q

## Equal Division Expansion Tool

Select the equal division tool, left-click on the line near the fixed endpoint, left-click on the line near another fixed endpoint, left-click to select the relevant line, right-click, modify the dialog data, and click OK.

Application: Sleeve expansion

## Line Join P

Select the two lines that need to be joined, press the P key.

Shortcut: P

## V Dart V

Place the mouse on the line, press "V", enter the dart position data, move the mouse, left-click to confirm, modify the dialog box.

Shortcut: V

## Corner Connection B

Select the two lines that need to be connected to the corner respectively, and double-click the left button in the area to be retained.

Shortcut: B

## Diamond Dart W

Place the mouse on the line, press "W", enter the dart position data, left-click to confirm, modify the dialog box.

Shortcut: W



### Advanced Tips

The corner smoothing function is suitable for handling smooth transitions at stitching parts, and equal division expansion is often used for sleeves, skirt hems, and other parts that need to be expanded.

# Design Mode: Right-click Operations and Copy

## Generate Pattern

Select clockwise or counterclockwise (the first line must be selected), right-click, select generate piece, modify data and name.

## Free Move

Left-click to select graphics, right-click, select free translation, left-click to finish.

## Move by value

Left-click to select graphics, right-click, quantitative translation, enter data, left-click OK.

## Move By Point

Left-click to select graphics, right-click, point-to-point translation, left-click the moving point, then click the target point.

## Copy by (Associated Copy)

Left-click to select graphics, right-click, click associated copy, the copied graphics are associated with the original graphics.

## Copy All (Non-Associated Copy)

Left-click to select graphics, right-click, click non-associated copy, the copied graphics are not associated with the original graphics.

## Copy Horz\_Symm

Left-click to select graphics, right-click, click horizontal symmetry copy, the copied graphics are horizontally symmetrical to the original.

## Copy Vert\_Symm

Left-click to select graphics, right-click, click vertical symmetry copy, the copied graphics are vertically symmetrical to the original.

## Region OP (area Copy)

Left-click to select graphics, right-click, area copy, copy graphics within a closed outer frame (internal lines can be selected).

## Copy Symm (Symmetry Copy)

Left-click to select graphics, right-click, symmetry copy, left-click the symmetry axis, left-click to select whether to keep the original graphics.

## Puff Sleeve

Draw the expansion line of the bubble sleeve, left-click to select the sleeve cap line and expansion line, right-click, bubble sleeve, modify data.

## Dart Transfer

Select the old dart line and new dart line in sequence with left-click, right-click, dart transfer, modify data.

## Add Dart Apex

Select the dart line in sequence with left-click, dart line, direction edge, right-click, add dart mountain.

## Delete link (Cancel Association)

Left-click to select graphics, right-click, cancel association.



**Tip:** Associated copy maintains the relationship with the original graphics, suitable for parametric design.

## PATTERN MODE - SHORTCUT KEYS

# Pattern Mode Shortcut Keys Quick Reference

### Common Shortcut Keys

**ESC** **Cancel/Default Smart Pen**  
Restore default state

**B** **Corner Connection**  
Connect two line angles

**C** **Corner Smoothing/Ring**  
Smooth processing of corners

**D** **Delete/Add Shadow**  
Delete or add shadow

**E** **Similar Curve/Associated Copy**  
Create similar curves

**F** **Non-Associated Copy**  
Independent copy of graphics

**H** **Line Break/Hide Graphics**  
Break lines

**M** **Generate Pattern/Curve Smoothing**  
Generate pattern

### Point Color Meanings

**Red Point**  
Coordinate origin, no associated points, can be dragged freely

**Green Point**  
Associated, data-based points, can be dragged and modified

**Light Blue Point**  
Intersection points, follow movement, cannot be modified

**Purple Point**  
Perpendicular point, extension line intersection point, controlled point

**Tip:** Light blue points and purple points turn red after canceling association and can be modified. After establishing association, they turn green and can be moved and modified.

# Pattern Mode Operation Details



## Seam Allowance Modification

Left-click the line, modify the seam allowance width and parameters in the dialog box.

**Operation:** Left-click line



## Corner Modification

Right-click on the point, select the corresponding corner processing method (right angle, round corner, cut corner, etc.).

**Operation:** Right-click corner point



## Notches

Left-click on the point to add a notch, right-click on the line to enter data to add a notch.

**Two ways to add**



## Holes

Left-click on the internal point, enter parameters (diameter, quantity, etc.).

**Operation:** Left-click internal point



## Button Positions

Press N key, left-click two points, modify the dialog box (the quantity field can modify the number of buttons for different sizes).

**Shortcut:** N



## Internal Lines

Left-click the line to turn green (print), Ctrl+left-click to turn blue (cut).

**Green=Print Blue=Cut**



## Process Lines

Press G, left-click the line, right-click to pop up the dialog box, modify as needed.

**Shortcut:** G



## Quilting Lines

Press W, left-click the piece that needs quilting lines, pop up the dialog box to modify. Ctrl+left-click the alignment point to make quilting lines from the alignment point.

**Shortcut:** W



## Grain Line Adjustment

- Left-click two points/line + T: Grain line perpendicular to line
- Left-click two points/line + Ctrl: Grain line coincides with line
- Left-click two points/line: Grain line parallel to line



# Pattern Mode: Right-click Operations

## Edit (Modify Pattern)

Right-click on the blank area inside the piece to pop up the piece settings dialog box.

**Shortcut:** Double-click left button inside piece

## Rotation Alignment

Left-click one alignment point, left-click the target point, left-click another alignment point, left-click another target point.

**Caution:** Automatically cancels association after use

## Take out (Extract Piece)

Extract a single size piece separately, used for single-size production or special processing.

## Seam Check

Click the seam check tool, left-click the two points to be joined respectively, left-click can drag the large red dot to view the seam effect.

Used to check if stitching parts match

## Internal Line → Pattern Piece

Internal closed area automatically generates pattern pieces, suitable for making patch pockets, pocket flaps, and other components.

## Single Pattern Piece Shrinkage

Note the selection of single piece shrinkage and shrinkage applied to all pieces of the current fabric, set the shrinkage rate according to actual needs.

## (Move PtoP) Point-to-Point Translation

Left-click the moving point, then click the target point to precisely move the piece position.

## Piece → Seam Allowance

Replace the piece's gross sample line with the net sample line, used for pattern conversion at different production stages.



## Operation Tips

The seam check function is very important for verifying pattern accuracy before sewing. The rotation alignment function is suitable for adjusting piece angles but will cancel association, please use with caution.

## SHORTCUT KEYS - PATTERN PIECE & NESTING MODE

# Nesting Mode Shortcut Keys

### For Pattern Pieces Shortcuts

**C** Mesh Adjustment

**F** Modify Fill Color

**U** Distinguish Current Piece

**V** Show Notches/Holes

**G** Process Lines

**H** Align Notches/Horizontal Shrinkage

**W** Show Grain Line

**Space** Rotate Piece 180°

X

Y

### Nesting Mode Shortcuts

**N** Button Positions

**P** Check Grading Points

**↔** Piece Angle Fine-tuning

**↑↓** Piece 90° Rotation

**Q** Single Full Screen/Piece Selection

**W** Quilting Lines

**><** Switch Paired Pieces

**Ctrl+C** Show Net Sample Line

Ctrl+H

Ctrl+I

## GLOBAL SHORTCUT KEYS

# Global Shortcut Keys Quick Reference Manual

### View Control

**F5** Fix Curve Control Points

**F6** Show Point Coordinates

**F7** 1:1 Display

**F8** Clear Invalid Points/Full Screen

### File Operations

**F9** Toolbar/Menu Selection

**Ctrl+N** New Document

**Ctrl+O** Open Document

**Ctrl+S** Save Document

**Ctrl+A** Save As

### Mode Switching

**F2** Pattern/Piece Mode

**F3** Nesting Mode

**TAB** Mesh Small to Large

**Shift+TAB** Mesh Large to Small

### Display Control

**Ctrl+F** All/Current Base Size

**Ctrl+G** All/Current Mesh

**Ctrl+J** Net/Gross Sample

**Ctrl+L** Show/Hide

**Ctrl+P** Show/Hide Endpoints

### Mesh Control

**Ctrl+TAB** Mesh Full Display

### Common Tools

**M** Measurement Tool

**S** Slide Size Table

### Auxiliary Functions

**Ctrl+Y** Part/Variable List

**Alt+B** Show/Hide Background Grid

**Alt+G** Structure Line Mesh

**Alt+K** Show Seam Allowance List

**Alt+L** Show/Hide Deep Hidden Lines

**0**  
Full Screen Display

**Delete**  
Delete Points, Lines

**Space**  
Screen Drag

**Enter**  
Confirm



**Learning Suggestion:** It is recommended to print out commonly used shortcuts and place them in the work area. Through repeated practice, form muscle memory to greatly improve operational efficiency. The F7 key's 1:1 display function is very useful when checking the actual size of patterns.

# Master BOK CAD

## Improve Design Efficiency

Mastering the operation methods and shortcut keys of Boke CAD can significantly improve the efficiency of garment pattern making. It is recommended to practice more in practical work, integrate shortcut keys into daily operations, and gradually improve professional skills.



### Continuous Learning

Master more advanced functions



### Proficient Operation

Shortcuts improve efficiency



### Efficient Output

Precise pattern making and fast nesting

Thank You for Watching

BOK CAD V22 Professional Training