

Beckhoff CNC Control Panels  
for machine tools



→ The robust design of Beckhoff Control Panels makes them ideally suited for harsh industrial environments. The modular Control Panel series features a wide range of variants, including standard displays with touch screens and complete CNC control panels for machine tools. The combination of Control Panels, Industrial PCs and TwinCAT automation software is ideal for PC-based CNC control systems.

## Control Panel for CNC control

The CP6xxx and CP7xxx series Control Panels are designed for use as a man-machine interface. As control and display elements they form an independent unit, separate from the control level. Within a slimline aluminum housing the Control Panels combine an elegant design with display sizes between 6.5 and 19". The modular Control Panel series from Beckhoff offer a wide range of variants in terms of housing shapes, display sizes, keys/keyboards and connection types.

New Control Panels have been developed for universal application as control units, particularly suited for the machine tool industry. The U-shaped arrangement of the control keys (i.e. control keys arranged on the sides and function keys below the display) matches that of the Transline concept commonly used in the automotive industry. A wide range of control functions can be integrated in the keyboard extension below the display unit, for example, emergency stop buttons, electromechanical keys, 45 membrane keys for axis control and two graycode switches for spindle and override.

The Control Panels are available as built-in or compact versions. The CP6842-xxxx built-in Control Panels feature protection class IP 65 (front)/IP 20 (rear) and are designed for control cabinet installation. The CP7842-xxxx Control Panels are de-

signed for protection class IP 65. They can be optionally installed at the machine tool from the top or via an adapter plate (without auxiliary housing). Two different machine control panels (offering mainly CNC or PLC functionality respectively) are available for simple and convenient machine operation. The design, equipment and functionality of the Control Panels can be adapted to match individual customer requirements.

### Overview of CNC Panel versions

- | Built-in Control Panel CP6842-xxxx:
  - CP6842-0001 without push-button extension
  - CP6842-1000 with CNC push-button extension
  - CP6842-1001 with PLC push-button extension

- | CP7842-xxxx Control Panel for mounting arm installation:
  - CP7842-0001 without push-button extension
  - CP7842-1000 with CNC push-button extension
  - CP7842-1001 with PLC push-button extension

#### **CP6842-0001 | CP7842-0001 (without push-button extension)**

- | 15-inch TFT display, 1024 x 786 resolution
- | touch screen
- | aluminum housing, splash-proof, IP 65
- | front laminate with integrated keys, LEDs and slide-in logo
- | alphanumeric PC keyboard (US layout), 16 function keys
- | 16 PLC special keys with LED at the side of the display
- | PLC special keys can be identified by slide in labels
- | DVI/USB interface
- | operating temperature 0 to 55 °C

#### **CP6842-1000 | CP6842-1000 (with CNC push-button extension):**

- | 15-inch TFT display, 1024 x 786 resolution
- | touch screen
- | aluminum housing, splash-proof, IP 65
- | front laminate with integrated keys, LEDs and slide-in logo
- | alphanumeric PC keyboard (US layout), 16 function keys
- | 16 PLC special keys with LED at the side of the display
- | PLC special keys can be identified by slide in labels
- | DVI/USB interface
- | 19-pin round connector for the push-buttons/switches in the push-button extension
- | operating temperature 0 to 55 °C
- | 2-port USB round connector
- | push-button extension:
  - emergency stop key, type Signum
  - 2 illuminated push-buttons, control voltage on/off
  - key switch
  - 2 graycode switches (T=17, T=23)
  - 45 membrane keys, identification via slide-in labels

#### **CP6842-1001 | CP7842-1001 (with PLC push-button extension):**

- | 15-inch TFT display, 1024 x 786 resolution
- | touch screen
- | aluminum housing, splash-proof, IP 65
- | front laminate with integrated keys, LEDs and slide-in logo
- | alphanumeric PC keyboard (US layout), 16 function keys
- | 16 special PLC keys with LED at the side of the display
- | special PLC keys can be identified by slide in labels
- | DVI/USB interface
- | 19-pin round connector for the push-buttons/switches in the push-button extension
- | operating temperature 0 to 55 °C
- | 2-port USB round connector
- | push-button extension:
  - emergency stop key, type Signum
  - 16 electromechanical illuminated push-buttons
  - graycode switch (T=23)