



Digital Hand Wheel Pendant (DHP-2)

Hand wheel Pendant Operation

The pendant will allow control of the machine without having to use the keyboard or mouse. The rotary hand wheel is for use in hand wheel mode only and will allow the machine to be moved via the hand wheel. The machine will exactly mimic the hand wheel motion. Your Galil card must either be a 4 axis Econo series card or a 3 axis Optima series card. The encoder setting for the hand wheel must be entered in the Configure page of the WinGcnc software. The travel multiplier keys determine the distance the machine will move per hand wheel revolution. These keys are accessed via the hand wheel mode screen. The **X, Y and Z select** keys on the pendant determine which axis to move. Direction and speed of hand wheel rotation, will determine machine direction and speed.

The Hand wheel pendant provides three pushbutton switches for **CYCLE START, PAUSE** and **RESUME** and may be used in MDI and AUTO MODES. Feed override is also include on the pendant to allow the user to remotely

increase or decrease the feed rate in MDI and Auto modes. Each hit on either of the feed override keys causes the feed rate to increase or decrease by 5%. Holding this key down will not change the override value.

The Pendant emulates the keyboard. In other words hitting a particular button on the pendant is the same as hitting the designated key on the keyboard. Electrical isolation in the pendant box provides noise free operation at over 25 feet from the keyboard.

System Components

- 1) Pendant
- 2) Pendant control box
- 3) Keyboard cable
- 4) DB25 cable
- 5) DB9 encoder cable (optional)

Connection To Your Computer

Turn of your computer

Connect the keyboard cable to the pendant box labeled **To PC**

Connect the other end of this cable to your PCs keyboard input

Connect the keyboard to the pendant box labeled **Keyboard**

Connect the DB25 cable to the pendant box and to the pendant

Plug the pendant box into an AC outlet

Connect the encoder signals from the DB9 connector on the rear of the

Box to the hand wheel encoder axis of your ICM 2900 or ICM 1900 breakout box

Power up your PC. You should now be able to control your machine via the pendant

Caution

Keep the pendant box away from all magnetic fields

Button Descriptions

Cycle Start	Starts program in Auto mode or Begins motion in MDI mode. Same as cycle start key
Pause	Same as Pause key from program
Resume	Resumes motion after Pause has been hit
X	Selects X axis in Jog mode or hand wheel mode
Y	Selects Y axis in Jog Mode or hand wheel mode
Z	Selects Z axis in Jog Mode or hand wheel mode
	Continues motion after a manual tool change in Auto

JRA Co.

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OVR+ Each press increases feed rate in MDI and Jog Modes
"Stop" in continuous Jog mode

OVR- Each press decreases feed rate in MDI and Jog Modes
"Start" in continuous Jog Mode

Hand wheel Encoder Specifications

2000 line (8000 cpr in quadrature)
Differential output

Enter 8000 in configure mode in WinGcnc

DB9 Signal description

(connect to Galil ICM 2900 ICM 1900 auxiliary encoder axes)

Pin1 5v
Pin2 Gnd
Pin3 CHB(-)
Pin4 CHB(+)
Pin5 CHA(-)
Pin9 CHA(+)

Order number **DHP-2**

Price **\$525.00**

Optional DB9 Connector
\$15.00