

MACHINEMATE Machine Tool Builder's Panel (MTBP)



The **MACHINEMATE** Machine Tool Builder's Panel (MTBP) can make the operator's panel design and implementation easier. The width of the MTBP is identical to that of the **MACHINEMATE** control for a simple layout of an operator's station. This panel includes:

- Emergency stop pushbutton (push in to lock, twist out to release)
- Feed rate and spindle speed override switches
- Cycle start & stop pushbuttons
- Machine start pushbutton
- Jog + and – pushbuttons
- Six general-purpose pushbuttons
- Molded 2-meter cable (with a 50-pin D-shell on both ends)



All of the pushbuttons except the emergency stop can be illuminated. All eight of the small pushbuttons can have a different label engraved for a nominal charge. Important dimensions are shown below.

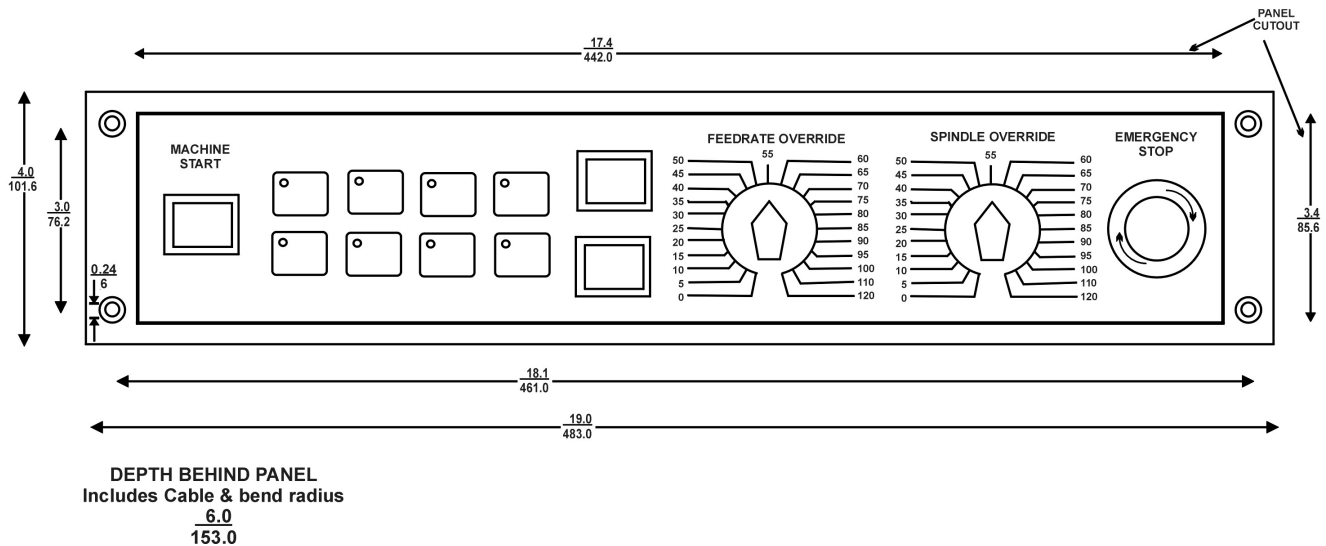
MACHINEMATE INC has prepared a PLC application template that includes the processing of all the MTBP inputs and outputs. It is also available for download from our web site.

When using the **MACHINEMATE** SERCOS interface, the included 2-meter cable is pin-compatible with the SERCOS PCI IO connector (X9) for an easy installation. It takes just a few moments for a SERCOS control to be running with the MTBP.

For analog systems, a breakout card can be obtained from **MACHINEMATE** (several vendors have one for the 50-pin D-shell) to convert the 50-pin connector to terminal strip connections.

The MTBP is available at the list price of \$695. Quantity discounts are available.

MachineMate, Inc. MTBP



MachineMate MTBP CONNECTION INFORMATION

The MTBP connector is a male 50-pin D-sub, screw thread 4-40 UNC. The signal arrangement allows the cable to be pin-compatible with the SERCOS PCI IO connector. The connector pin assignments:

Description	Pin	Description	Pin
Feed Override bit 1	22	F2 Light	49
Feed Override bit 2	5	F3 Light	32
Feed Override bit 3	37	F4 Light	15
Feed Override bit 4	20	Machine Start Light	47
Feed Override bit 5	3	Jog- Light	30
F1	35	Jog+ Light	13
Jog -	18	Cycle Stop Light	45
Jog +	1	Cycle Start Light	29
Speed Override bit 1	6	F5 Light	46
Speed Override bit 2	38	F6 Light	14
Speed Override bit 3	21	Not used	31
Speed Override bit 4	4	Not used	48
Speed Override bit 5	36	Not used	16
F2	19	Not used	33
Cycle Stop (NC)	2	Not used	50
Cycle Start	34	0V IN	9
F3	25	0V IN	42
F4	8	+24V IN	26
Emergency Stop (NC)	40	+24V IN	10
Machine Start	23	+24V IN	43
F5	41	+24V IN	27
F6	24	+24V IN	11
Not used	7	+24V IN	44
Not used	39	+24V IN	28
F1 Light	17	+24V IN	12

The MTBP Terminal Strip pin assignments:

Description	Lug
+24V	1
0V	2
Emergency Stop (NC)	3
Emergency Stop (+24V)	4

