

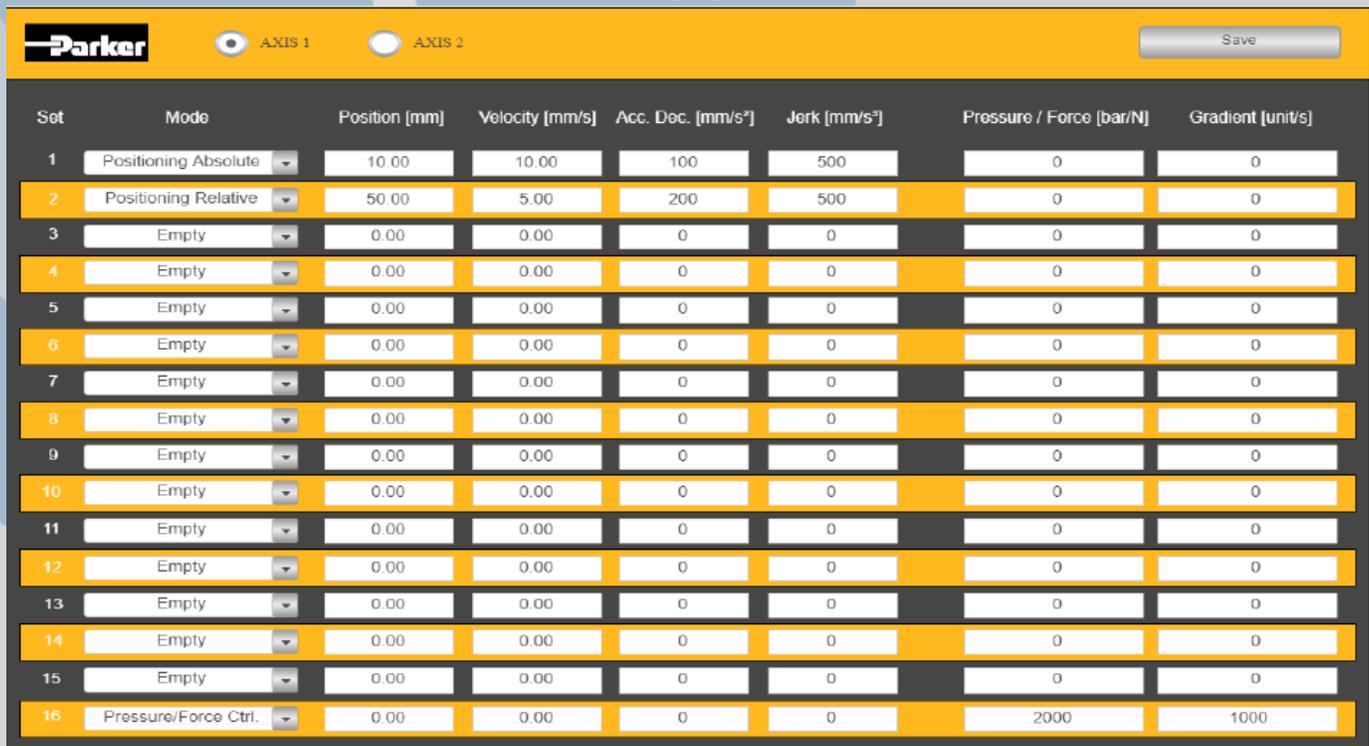
Parker Hydraulic Motion Control



Do you need position and/or force control for your hydraulic system?



We are proud to offer and support Parker Hannifin's Hydraulic Motion Control Indexer (MCI) built on the Parker PAC120/PACHC platform. The MCI requires no programming for up to 2 axis' of motion for Hydraulic Position and Force control. Simply wire the MCI into your machine and use the WebVisualization screens to configure the MCI for your application. WebVisualization screens can be accessed via a direct PC to MCI Ethernet connection or from an Web HMI display.



Set	Mode	Position [mm]	Velocity [mm/s]	Acc. Dec. [mm/s ²]	Jerk [mm/s ³]	Pressure / Force [bar/N]	Gradient [unit/s]
1	Positioning Absolute	10.00	10.00	100	500	0	0
2	Positioning Relative	50.00	5.00	200	500	0	0
3	Empty	0.00	0.00	0	0	0	0
4	Empty	0.00	0.00	0	0	0	0
5	Empty	0.00	0.00	0	0	0	0
6	Empty	0.00	0.00	0	0	0	0
7	Empty	0.00	0.00	0	0	0	0
8	Empty	0.00	0.00	0	0	0	0
9	Empty	0.00	0.00	0	0	0	0
10	Empty	0.00	0.00	0	0	0	0
11	Empty	0.00	0.00	0	0	0	0
12	Empty	0.00	0.00	0	0	0	0
13	Empty	0.00	0.00	0	0	0	0
14	Empty	0.00	0.00	0	0	0	0
15	Empty	0.00	0.00	0	0	0	0
16	Pressure/Force Ctrl.	0.00	0.00	0	0	2000	1000

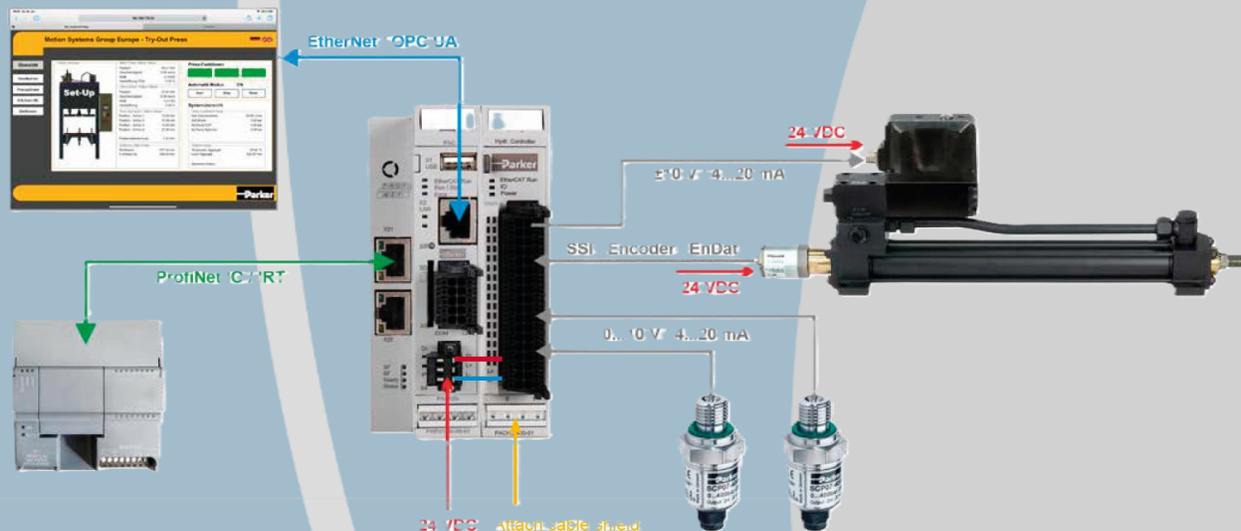
Motion Setup Screen

Select 1 of the 16 motion profiles for each axis as needed for controlled motion. Each mode can be either a absolute position, relative position, velocity, homing or a force control move. You simply set the motion parameters (position, velocity, ramps, etc) that are needed for that operation. If you have an ethernet capable PLC you can populate the motion parameters without the need for an HMI.

With the addition of Digital I/O card(s) you can select the Mode required via digital inputs and control system status lights. This allows for standalone operation without the need for additional controls.

Wiring is simple and AFP can offer a control panel for connecting the MCI to your hydraulic system. AFP can also help you select the hydraulic components needed for your process. We also offer training for the motion control and hydraulic products, and systems, we sell.

Below is an example of a single axis system. The components shown below, demonstrate what is needed for a position and force control system controlled by a PLC.



Contact your AFP Territory Manager if you would like to schedule a conversation with one of our Application Engineers about how the MCI could benefit your process.

AFP Industries operates 14 locations in Virginia, Tennessee, North Carolina, South Carolina, Georgia and Florida. AFP locations provide expert repair, fabrication, and testing for hydraulic, pneumatic, and electro-hydraulic systems—delivering reliable, efficient solutions built to your specifications. AFP operates 13 ParkerStore™ locations to provide customers a place to go when they need repairs to their essential hydraulic and pneumatic hose assemblies and other fluid connector components.



We are a complete automation solutions provider, supplying industry with innovative solutions for motion and machine control utilizing Hydraulic, Pneumatic, Electrical, and Fluid Connector products.



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