

Palletized Fixtures: Clamp Holding Protection Options

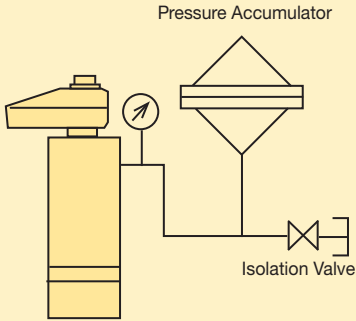
Keeping fixtures **SAFE** from accidental loss of clamp holding

Good

Standard Workholding Technology – Accumulator Protection

Pressure is required to maintain clamping forces.

While the fixture is in the machining center and disconnected from the power source, pressure protection is provided by a check or shut off valve and an accumulator.

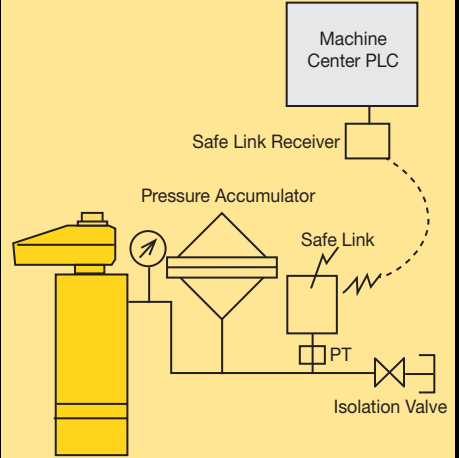


Better

Standard Workholding Technology – Accumulator & **Safe Link** Protection

Same as “Good Solution” with added protection of Safe Link.

Safe Link communicates the pressure status to the machine control. If pressure is lost, the fixture can be taken off line for repair – before loss of holding becomes an issue.



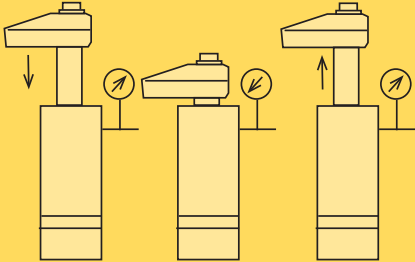
Best

Collet-Lok® – Depressurized Holding Technology Protection

Best options for long term storage of pre-loaded fixtures

No Pressure Required to hold clamping – Inherently Safe!

Collet-Lok® Depressurized Holding Technology uses pressure to initiate and release the clamping, not to hold the clamping.

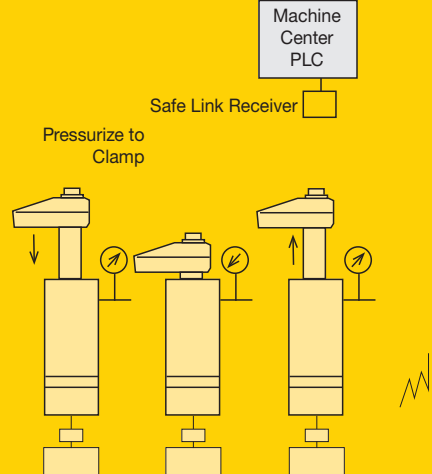


Ultimate

Collet-Lok® – Depressurized Holding Technology, Position Sensing & **Safe Link** Protection

Same as “Best Solution” with added protection of Safe Link

To be absolutely sure operators have initiated clamping, this option provides a Safe Link confirmation that the part is clamped.





Collet-Lok® Swing Cylinders

- Threaded or flange style bodies
- 1,000 lb., 2,000 lb. and 8,500 lb. clamping capacities



Collet-Lok® Work Supports

- Threaded or flange style bodies
- 2,000 lb., 4,000 lb. and 10,000 lb. supporting capacities



Collet-Lok® Push Cylinders

- Threaded or flange style bodies
- 2,500 lb. or 5,000 lb. clamping capacities
- Can be used as a heavy duty work support

Enerpac Collet-Lok® products combine the automation of hydraulic actuation with an internal collet system that maintains the clamping force through a locking taper. The resulting mechanical retention of the clamping force is maintained without pressure until the cylinder is hydraulically unlocked. Whether used in a machining or welding fixture, Enerpac Collet-Lok® provides secure clamping of your work pieces for:

- Operator safety
- Machine safety
- Work piece safety

e-mail: info@enerpac.com
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SLR-1 Receive Unit

- Provides 24VDC outputs to customer machine controller
- Output interrupted if fixture pressure is lost or clamp is not in clamped position



Send Unit

- SLS-1: Internal antenna
- SLS-2: External antenna
- Can be used with pressure or limit switch
- Sends signal to SLR-1 when pressure is OK
- Powered by internal 36VDC Lithium battery



Enerpac Safe Link wireless 2.4 GHz technology provides a communication link between your fixture and your machine control. You can verify that the operator properly activated the hydraulic clamps on all fixture faces or monitor the clamp status while parts are being machined.

Enerpac Safe Link adds:

- Operator safety
- Machine safety
- Work piece safety

Your Enerpac Distributor: