



HydroPro's HPX series utilizes **many advanced features that make it ideal for use with any expansion application**. Full enclosure panels offer quiet operation, with all of the system components protected from outside contaminants often found in fabrication facilities. Other features include an H<sub>2</sub>O level indicator, a standard 62,000psi max operating pressure (with 72,500psi max available on some models), LED status indicators, Digital pressure readout, 44" tall chassis, 3-gallon reservoir, industrial wheels, data output via USB, 1/2% accuracy of scale, and a direct pressure pump (no need for an intensifier).

Additional HPX systems include our HPX 7000 System which includes full material traceability, membrane switch controls, and multiple available options often required in Nuclear fabrication and other high documentation applications. Additional options include system controlled multi-stage expansion, gun mounted transducer, and operation via touchscreen tablet.

These systems are further upgradeable to a 72,500psi max operating pressure with our HPX 6070 and HPX 7070, which integrate ultra-high pressure components for expansion of heavy wall exotic materials.



The HPX series of systems utilizes HydroPro's proven Standard Tooling along with our Basic and Fastool tooling options, ensuring you are able to use this machine for all of your hydraulic tube-to-tubesheet expansion needs, ranging from condensers to evaporators, and from high pressure feedwater heaters to reactors.

# HydroPro HPX Series

# HydroPro JR Series

## HydroPro

The HydroPro JR-7 hydraulic expansion system offers users the most versatile tube expansion system in the world, in a lightweight, open frame package. With a digital pressure readout, LED cycle indicators, sturdy steel frame construction, electronic gun, and industrial casters, this system becomes the workhorse for heat exchanger manufacturers around the world. Currently used in more than 30 countries for their day-to-day tube expansion needs.

Standard features include

- ✓ Digital Pressure Readout / Display
- ✓ Toggle Switch Protection
- ✓ Faceplate mounted LED cycle indicators
- ✓ 3 Gallon Water Reservoir with Micron Filter
- ✓ Direct Pressure Output (no intensifier)
- ✓ Gun Mounted LED cycle indicators
- ✓ Industrial Casters
- ✓ Universal Electric Power Supply (110/220)
- ✓ H2O Low Level indicator
- ✓ Steel Frame Chassis
- ✓ 20' +/- Flex Tube / Gun Assembly

Optional Upgrades include

- Full Pneumatic Operation
- Side Panels
- USB Data Output (For Logging Expansion Data)

HydroPro's JR-7 hydraulic expansion power supply is the ideal expansion system for most heat exchanger manufacturers around the world. Its high pressure capability (55,000psi) allows for consistent controlled expansion of virtually any tube regardless of size or material. These include, but are not limited to, Stainless Steel, Titanium, Inconel, Hastelloy, Duplex, and AL6XN.



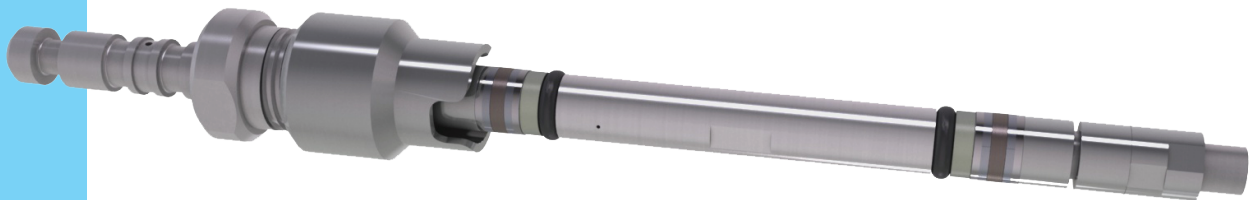
# HydroPro Standard Tooling



HydroPro Standard Tooling has proven time and again to be the most reliable and repeatable high-pressure tube expansion solution available. Our patented dual Cam / Segment configuration ensures both sustained high-pressure capabilities and long parts life. Something no other hydraulic expansion tool can offer.

The dual Cam setup allows the tool to remain centered axially inside the tube, and avoid "side loading" which occurs when the tool allows a higher volume of water on one side of the tool than another. This most often occurs when a single Cam design is used, or when no Segment Assembly is used.

Our tooling is trusted by nuclear and military fabricators around the world to ensure reliable results. With no maximum limit to tubesheet thickness and no tube size limitations, HydroPro tooling can be used on virtually any type of exchanger from air coolers to extreme pressure feedwater heaters.



Standard Tooling design is used in both tube-to-tubesheet expansion at extreme high pressures as well as sleeve / liner installation using our SleevePro systems, which is completed at much lower pressures, but typically with higher water volume. The design of our Standard Tool ensures maximum tube growth can be achieved without loss of seal under pressure.

