

[SEE PULL-OUT FORMING](#)

THE DIFFERENCE IS IN THE BRANCH.

For OEMs already using **stainless-steel manifolds**.

Cold-formed pull-out technology creates a formed collar from the header wall before the branch is precision welded — changing the branch foundation, not eliminating welding.

01**FORM THE COLLAR**

Header material is mechanically drawn outward.

02**FIT THE BRANCH**

The branch is located on the formed foundation.

03**PRECISION WELD**

The joint is welded, finished and inspected.

WHAT MAKES PULL-OUT FORMING DIFFERENT?

Many stainless-steel manifolds are built by cutting an opening in the main header and welding the branch directly over it. YuRong first forms a branch collar from the header wall, then fits and welds the branch to that collar.

**IMPORTANT
NOTE****Pull-out forming does not eliminate welding.**

It creates a controlled branch foundation before welding begins.

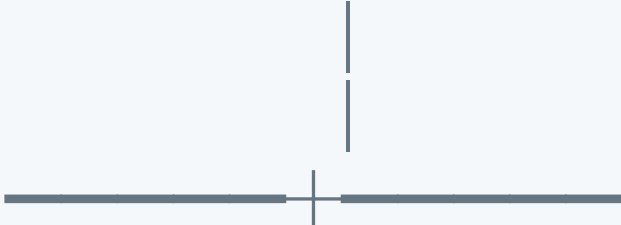
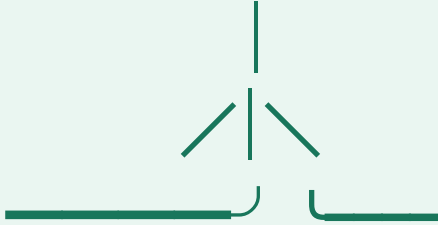
FROM STRAIGHT HEADER TO FINISHED MANIFOLD

The V2 page is process-led: show the customer exactly what happens before, during and after forming.

01 MAIN PIPE PREPARATION Cut and prepare the stainless-steel header to the specified length and layout.	02 PILOT HOLE PREPARATION Prepare the opening at the controlled branch location.
03 COLD-FORM PULL-OUT Mechanically draw the header wall outward to create the branch collar.	04 BRANCH FIT-UP Position the branch pipe onto the formed collar with controlled alignment.
05 PRECISION TIG WELDING Weld the branch to the formed collar; welding remains part of the construction.	06 SURFACE TREATMENT Finish the weld and stainless-steel surface according to the required appearance.
07 PRESSURE TESTING Pressure-test selected configurations according to the agreed design and test requirement.	08 FINAL INSPECTION Verify geometry, connections, finish and project-specific requirements.
FORM → FIT → WELD → FINISH → TEST → INSPECT	

FOCUS ON THE BRANCH CONNECTION

For customers already committed to stainless steel, the key question is not “stainless or not?” It is how the branch is created and controlled.

BRANCH OVER OPENING  Branch is positioned over a prepared opening and welded to the header.	FORMED COLLAR + BRANCH  Header material is formed outward first; the branch is then fitted and welded to the collar.
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ENGINEERING BENEFITS TO EVALUATE

CONTROLLED BRANCH GEOMETRY The formed collar establishes a repeatable branch location before welding.	CLEANER INTERNAL TRANSITION The formed collar can create a more gradual transition than a branch mounted directly over a cut opening.
REDUCED INTERNAL WELD INTRUSION Depending on the design, formed geometry may reduce unnecessary weld protrusion into the flow path.	REPEAT PRODUCTION Fixture-controlled forming supports consistent geometry across production batches.

BUILT AROUND YOUR BOOSTER PACKAGE

The forming method is only useful when the manifold geometry is engineered around the actual system.

01 PUMP SPACING	02 CONNECTION STANDARD	03 BRANCH SIZE
04 INSTRUMENTATION	05 CUSTOMER DRAWINGS	06 SYSTEM LAYOUT

QUESTIONS OEM ENGINEERS USUALLY ASK

DOES PULL-OUT FORMING ELIMINATE WELDING?	No. It changes the branch preparation method before welding.
IS EVERY MANIFOLD 1.5 MM?	No. Wall thickness is selected according to the application. Common custom designs may use optimized wall thicknesses around 1.0–1.5 mm, while other applications require thicker material.
IS THINNER PIPE AUTOMATICALLY WEAKER?	Not necessarily. Pressure, diameter, material, geometry, support and design requirements must be evaluated together.
IS EVERY MANIFOLD RATED TO 45 BAR?	No. Pressure capability depends on the final design. Selected configurations can be mechanically pressure-tested up to 45 bar.
CAN YURONG REDESIGN AN EXISTING MANIFOLD?	Yes. A drawing or photo of the current booster package is often enough to begin the review.

ALREADY USING STAINLESS STEEL?

LET US REVIEW ONE BRANCH CONNECTION.

Send a current manifold drawing or photograph. We'll evaluate whether cold-formed pull-out construction is technically suitable for your next booster package.



A DRAWING



A PDF



A PHOTO



PUMP MODEL + DIMENSIONS

ENGINEERING POSITION

The objective is not to claim that pull-out forming is universally superior. It is to offer OEMs a controlled, repeatable branch-forming method that can be evaluated against their existing stainless-steel manifold construction.