

In the mid-1960's the Utah State University Water Research Laboratory began development on a new type of flume for use in flat gradient channels. The result was the Cutthroat flume, so named due to the absence of a parallel-wall throat section (as on the Parshall flume). Commonly used in stream gauging, agricultural applications, and flow splitting, the use of the Cutthroat flume is now expanding into sanitary and flow splitting applications.

Primary advantages of Cutthroat flumes include:

- Self-cleaning (the flat bottom of the flume minimizes sedimentation)
- Simple construction
- Ease of installation
- Scalable to intermediate sizes
- Able to operate under free flow conditions with submergence ratios up to 79-88% (depending upon flume size)

Cutthroat flumes are sized by throat width and overall length. A number of styles (based on length) are available, including 18" L, 36" L, 54" L and 108" L. Intermediate or custom sizes are also available.



*2" W x 18" L Cutthroat  
with Staff Gauge (Tenths /  
Hundredths of Foot Increments)*

#### Optional Features:

- Laminated staff gauges in tenths / hundredths of a foot or centimeter increments
- Ultrasonic sensor mounting brackets
- Removable stainless steel bubble tubes
- Submerged probe cavities
- Stilling wells (attached and detached)
- Removable stainless steel sample tubes
- Removable stainless steel probe mounts
- 2" (5,08 cm) NPT tap
- FRP grating over the flume
- Pieced assembly for portability

#### TRACOM offers:

- A Complete Line of Flumes, Including:  
Parshall, Palmer-Bowlus, Trapezoidal,  
H-flume, RBC, Cutthroat, Montana, and  
SANIIRI Types
- Packaged Metering Manholes  
48", 60", and 72" Diameters
- H-20 Highway Loading, Aluminum Hatch  
and Dome Top Styles
- Single-Piece FRP Buildings  
4', 5', 6', 8', and 10' Widths
- Equipment Enclosures
- Instrument Consoles  
Table-Top, Low-Break Front, and  
High-Breakfront Styles
- Weir Boxes
- Equipment Sunshades and Mounting Stands