



## Three Chamber Pump Allows Operator to Visually Inspect Fluid Levels

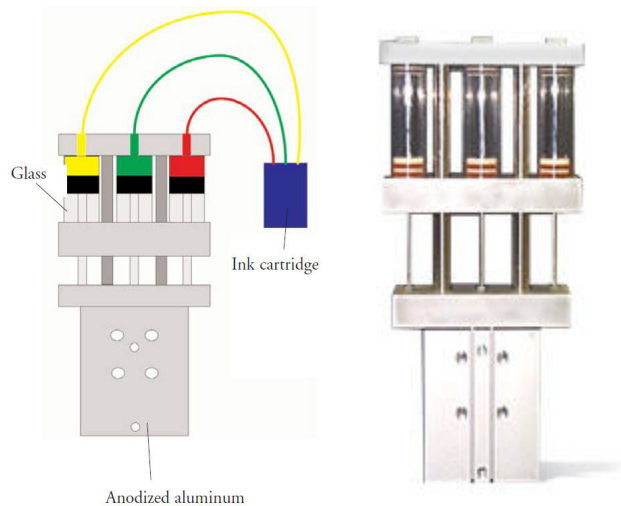
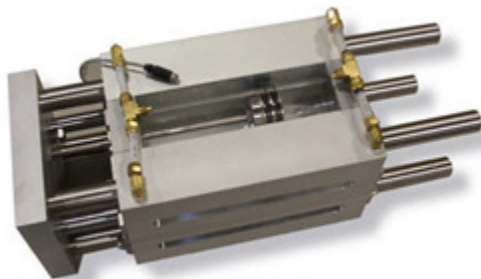
### Challenge:

A manufacturer of equipment that restores printer ink jet cartridges had traditionally used stainless steel cylinders to pump ink into the cartridges. Mechanically, it worked fine, but the manufacturer wanted to modify the design so that the operator could visually inspect the ink level and color.

### Solution:

Bimba used an Extruded Thruster as a drive cylinder linked to a self-contained assembly with clear glass tubing so an operator could quickly view ink levels. The 32 mm bore thruster and 1-1/4" glass tubing was combined with plastic pistons and silicone seals to produce an integrated, reliable assembly.

A similar design was created for a company that needed a safe way to pump acid into a battery chamber. Bimba designed a special extruded linear thruster, integrating two extruded thrusters and a center glass body tube. This allowed the customer to accurately measure the acid volume.



### Benefits:

- Clear glass tubing for visually inspecting fluid levels.
- Integrated, reliable assembly.

### Other Applications:

- Precision Filling
- Chemical Mixing
- Food Dispensing