

## Projectile Types & Applications

The projectile cleans by being pressed against the internal surface of the hose, tube or pipe. This pressure is achieved as the projectile is approximately 20% to 30% larger than the internal diameter of the hose, tube or pipe. For instance, a 50mm (2") projectile is recommended for a 38mm (1-1/2") hose.

**There are four types of projectiles currently available:**

TYPE	APPLICATION
Ultra Clean (UC)*	Hose, tube, pipe and assemblies. Removes fine particles of loose contamination and can also be used for product purging.
Tube	Tubing applications to remove mandrel lubricants, grease & oil after the bending process.
Abrasive (A)**	Tubes or pipes with build up of contamination, surface rust or scale.
Grinding (GR)**	Straight lengths of tube or pipe with greater build up of contamination, surface rust or scale.

\*Ultra Clean Projectiles 100mm and larger are provided with a laminated backer to prevent air permeation. The laminated backer should be loaded into the nozzle last so that the air is pushing against it.

\*\*An Ultra Clean projectile should always be used after abrasive and grinding projectiles to verify cleanliness.

Individual circumstances may require a smaller or larger projectile. If the projectile is too large it will not leave the nozzle and if it is too small it will not clean effectively. The enormous variety in the types of couplings available today could also mean in some circumstances that the recommended size is inappropriate. When cleaning assemblies, a reduction in projectile size may be appropriate, as all the recommendations are based on the most commonly used coupling sizes.

### Bulk Projectiles

Ultra Clean Technologies also offers Ultra Clean & Tube style projectiles packaged in bulk quantities. The bulk projectile program complements the Bench Mount Launchers for use in a production type atmosphere. Contact your local distributor or our sales office for pricing and package quantities.

