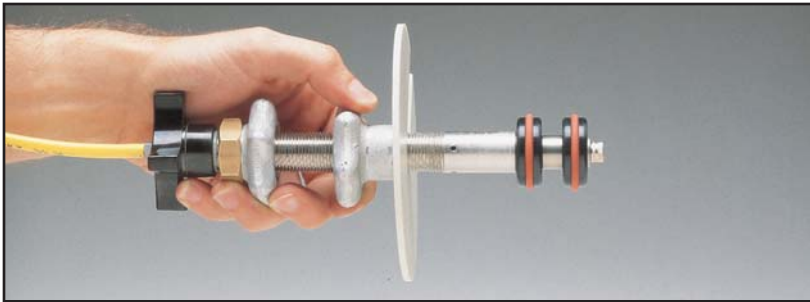


## FERRULE AND FITTING TOOLS



### Purge Mandrel Tool

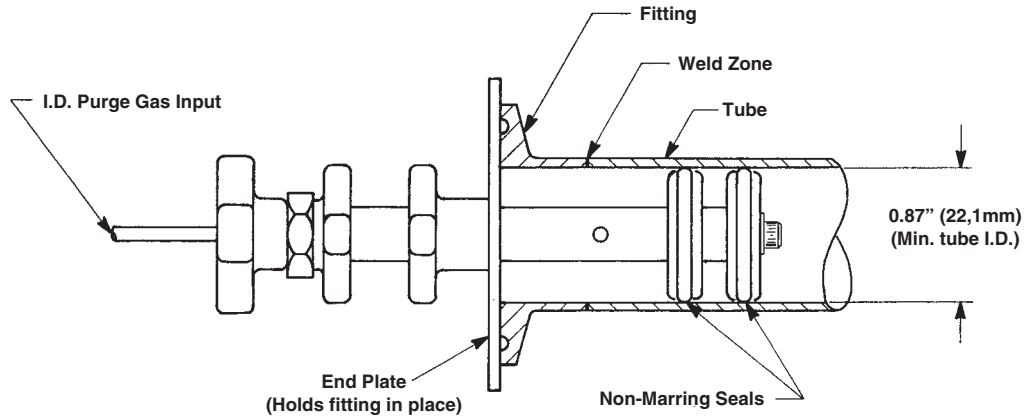
This tool provides a quick and easy method of aligning (prior to welding; automatic or manual) sanitary ferrules and other similar types of fittings, eliminating the need to pre-tack. It includes provisions for I.D. purging, and is adaptable to a wide range of ferrules and fitting types and sizes.



### Fitting Support Mandrel

This tool is designed to facilitate the orbital welding of fitting to fitting assemblies which do not have sufficient straight length to be held in an orbital weld head. It also serves as an I.D. purge device. The tool is adaptable to a wide range of fitting sizes and assembly configurations.

# PURGE MANDREL TOOL



The Purge Mandrel Tool is adaptable to a wide range of sizes through the use of adapter kits. Included with each adapter kit is a set of non-marring expanding seals. These maintenance-free seals prevent entrapment of oxygen, resulting in oxide-free internal welds.

The unique design of this tool saves time. No tools are required for operation. A significant savings of purge gas is also realized, as only the weld zone is purged.

Operation is easy. Slip the ferrule onto the tool, and insert the tool into the tube to be welded. Turn one knob to lock the tool into the tube, and turn another to hold the ferrule firmly against the end of the tube. Turn on the purge gas and you're ready to weld, either manually or with automatic equipment.

Adapter kits are available in all standard fitting sizes from 1" through 4". Adapter kits for custom or non-standard applications are available upon request.

*Contact the factory for ordering information.*

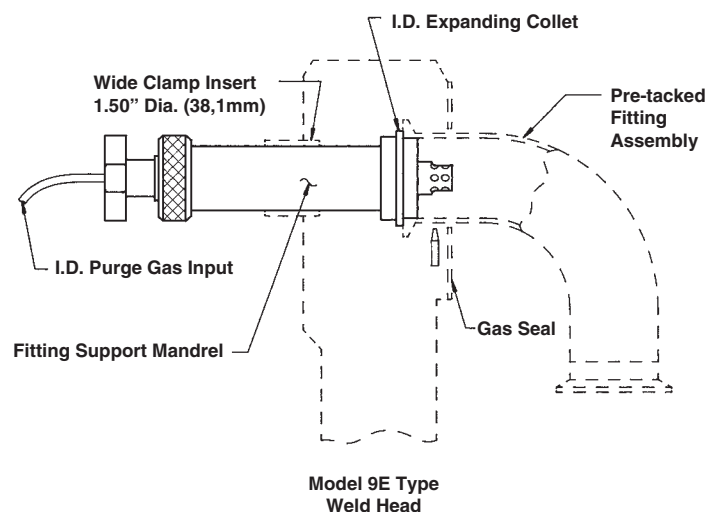
# FITTING SUPPORT MANDREL

The heart of this tool is a collet which is inserted into the I.D. of a ferrule, (or similar type of fitting) and expanded into place. This holds the pre-tacked fitting assembly concentric to the body of the mandrel. An input gas line and integral gas diffuser is provided to purge the I.D. of the assembly being welded.

Since the body of the tool is 1.5" O.D. (38,1mm) a wide clamp insert of this size (mounted onto one side of the weld head) is also required. This serves to hold the tool, and thus the pre-tacked fitting assembly centered in the weld head and ready for welding.

Collets for all standard fitting sizes from 1" through 4" are available. Collets for non-standard or custom applications are also available upon request.

*Contact the factory for ordering information.*



## ARC MACHINES, INC.