

# SMARTFLEX™

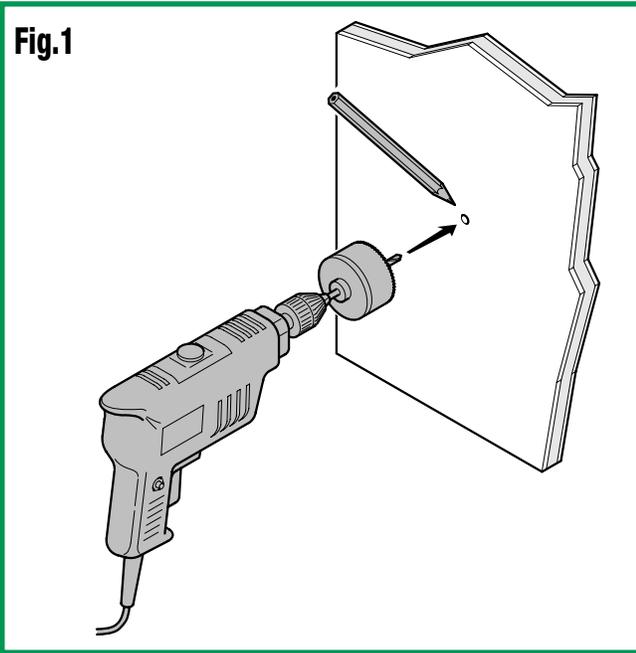
## Assembly instructions of an entry boot for fiberglass tanks



**Model**  
**SEBEF-SEBEFM**  
INSTALLATION TOOLS SHOWN ON PAGE VIII



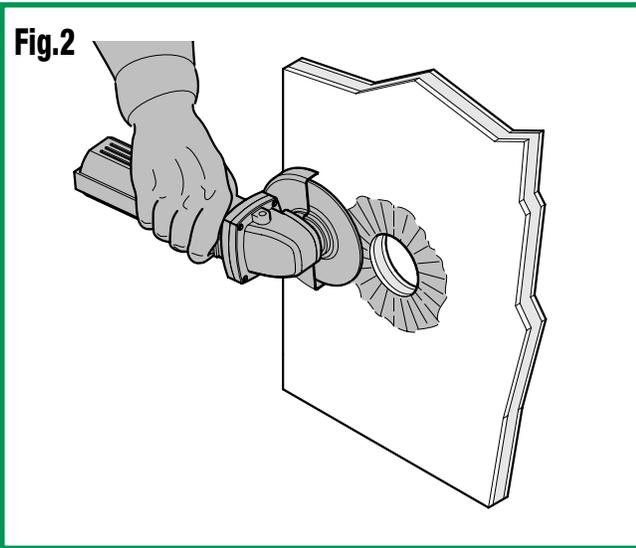
**Fig.1**



Assemble the mandrel (Model SMAN) and the hole saw (Model STAZ) and insert them into the power drill. Mark the position along the long side of the sump where the entry boot (Model SEBEF-SEBEFM) is to be installed. Now drill the required hole through the wall of the sump. Repeat the procedure if more than one entry boot is to be installed.

STAZ57 57mm - 2"1/4	To be used with SEBEF, SEBEFM_A and SEBEF_A diameters 1" (32 mm) and 1 1/4" (40 mm)
STAZ89 89mm - 3"1/2	To be used with SEBEF, SEBEFM_A and SEBEF_A diameters 1 1/2" (50 mm), 2" (63 mm) and 2 1/2" (75 mm)
STAZ152 152mm - 6"	To be used with SEBEF, SEBEFM_A and SEBEF_A diameters 3" (90 mm), 4" (110 mm) and 5" (125 mm)

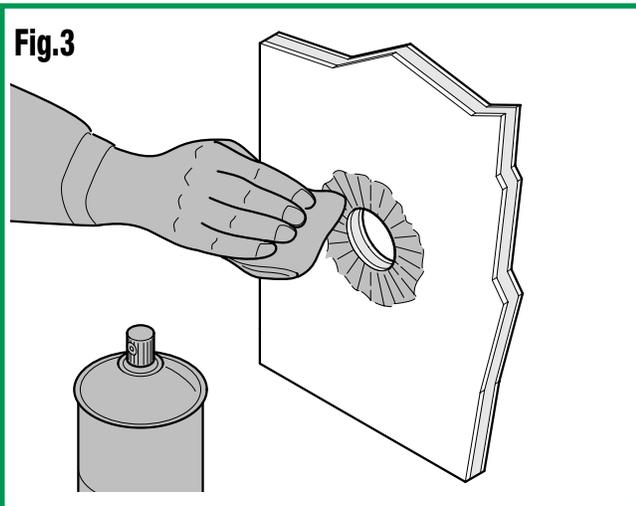
**Fig.2**



Prepare the surface of the sump's wall where the entry boot is to be installed with an angle grinder fitted with the appropriate sanding disc.

**ATTENTION:** The sanded area around the hole shall be larger than the outside diameter of the entry boot.

**Fig.3**

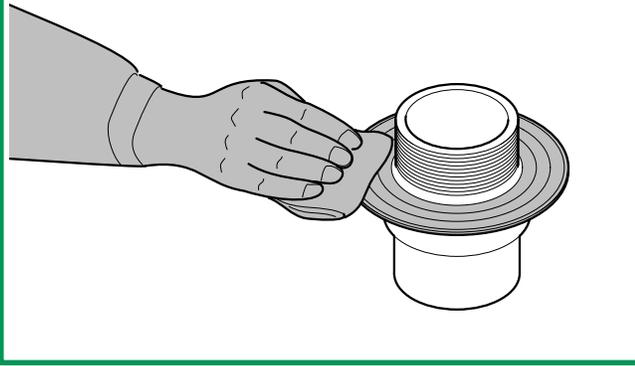


Clean all the components involved in the assembly with a clean cloth soaked with a recommended cleaning solvent (Model LID1).

**Note:** The following solvents may be used, **Acetone, Isopropyl Alcohol, Trichloroethane and Dichloromethane**. The use of other primers or solvents is not allowed.

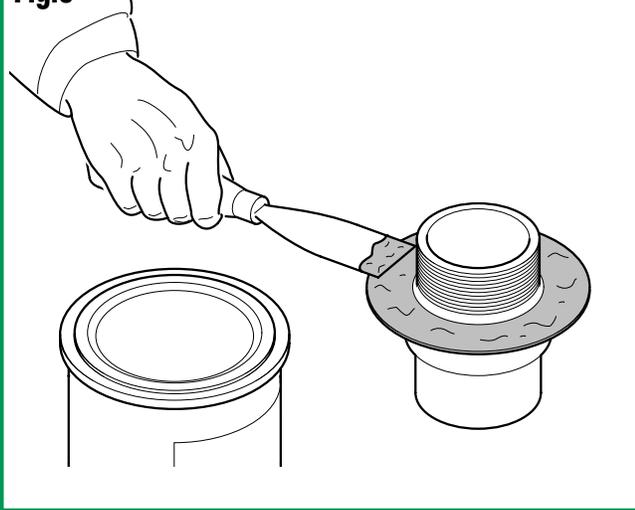


**Fig.4**



Use a proper emery cloth to clean thoroughly the SEBEF-SEBEFM brass flat surfaces.

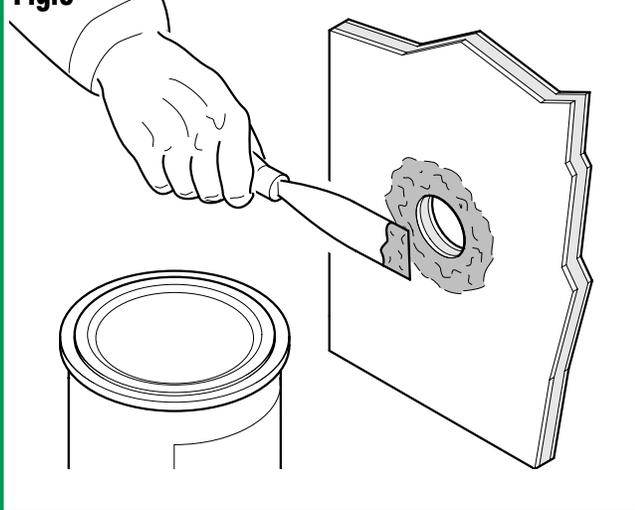
**Fig.5**

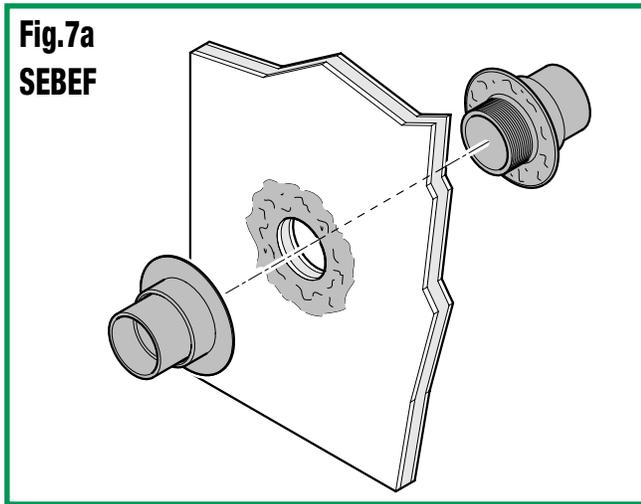


Pour and spread a consistent layer of epoxy sealant (Petrol Seal) over the contact side of the brass flanges. Avoid any spillage of product.

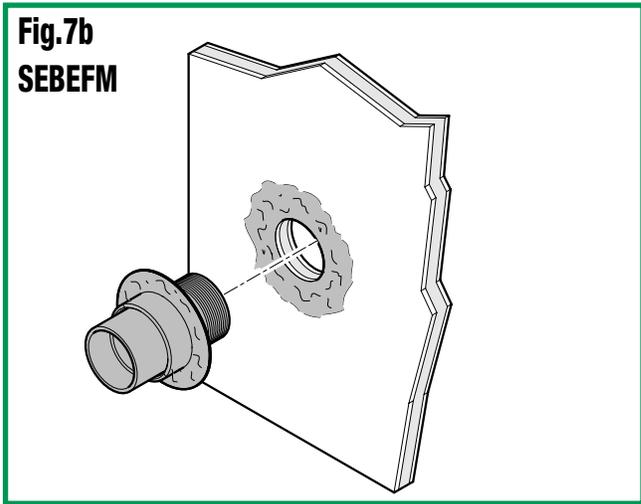
**ATTENTION:** During this process, avoid contaminating the SEBEF-SEBEFM threaded parts and the internal surface of the sump.

**Fig.6**

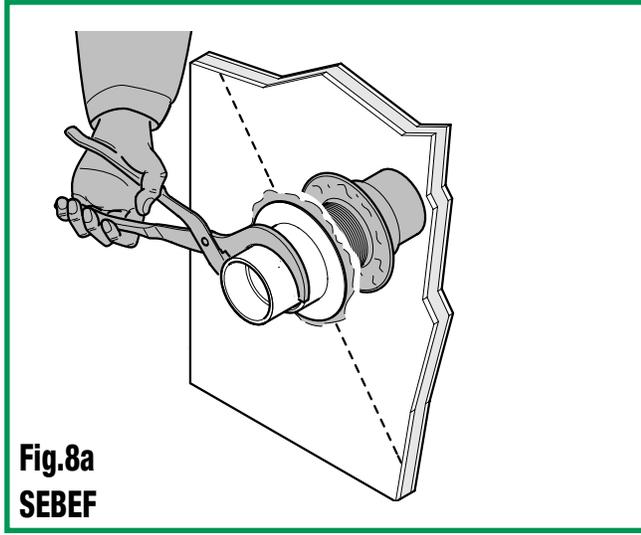




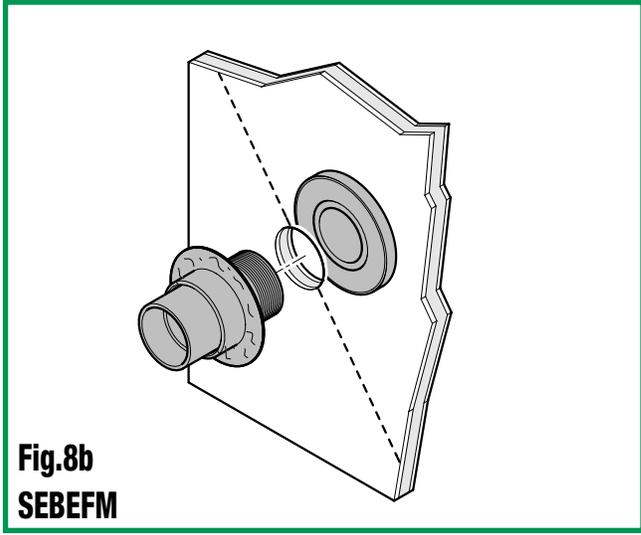
Assemble the two components of the entry boot together centring the flanges through the hole.



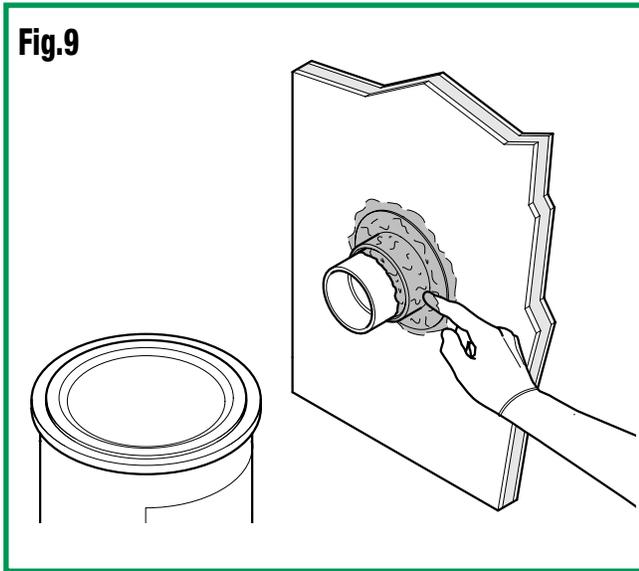
Insert the entry boot centring the flange through the hole.



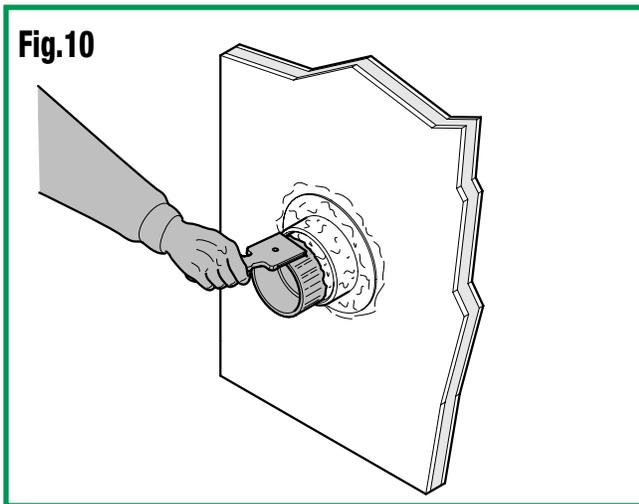
Tighten the SEBEF-SEBEFM assembly (special filter pliers are available).



Tighten the threaded flange onto the fitting.



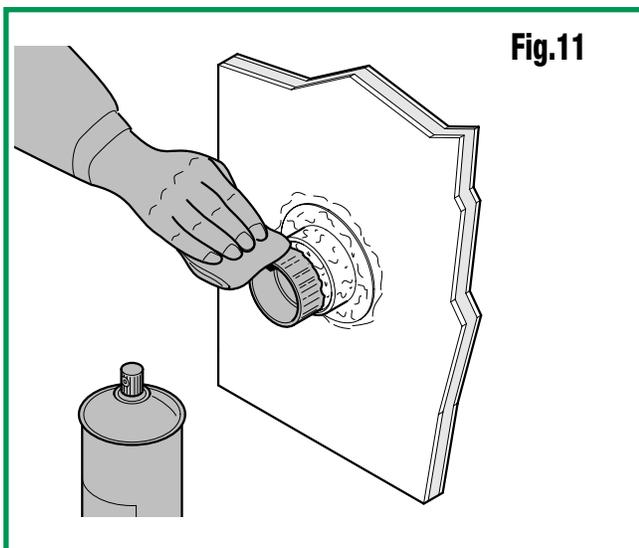
Pour and spread the Epoxy Sealant “Petrol Seal” on each side of the entry boot using the tip of the gloved finger and coat all the metal surfaces.



Let the assembly cure for the appropriate time (24 hours).

**ATTENTION:** Protect the fitting from any direct contact with water (such as rain) during the curing time.

After the curing time, scrape the HDPE ends using the manual scraper (Model RAM1).

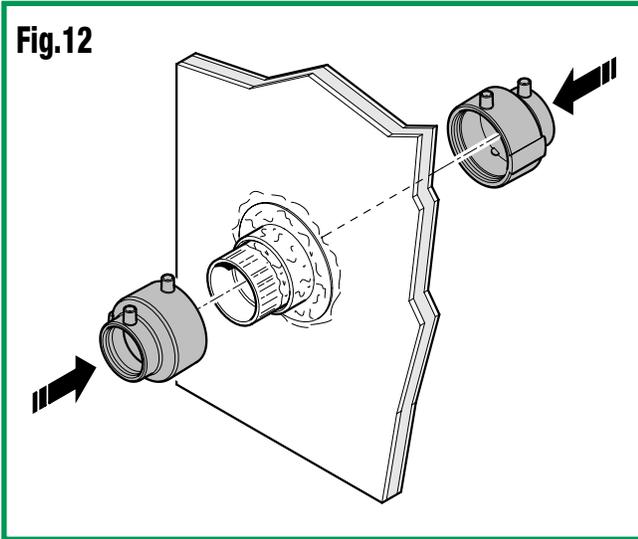


Clean the scraped surfaces with a clean cloth soaked with a recommended cleaning solvent (Model LID1).

**Note:** The following solvents may be used, **Acetone, Isopropyl Alcohol, Trichloroethane and Dichloromethane**. The use of other primers or solvents is not allowed.

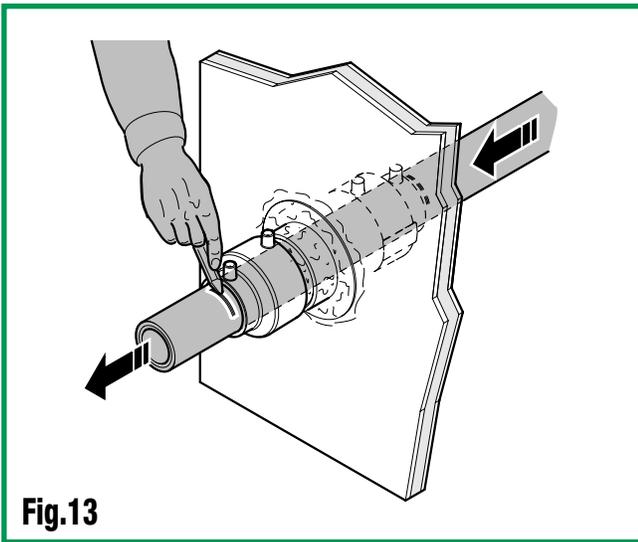


**Fig.12**



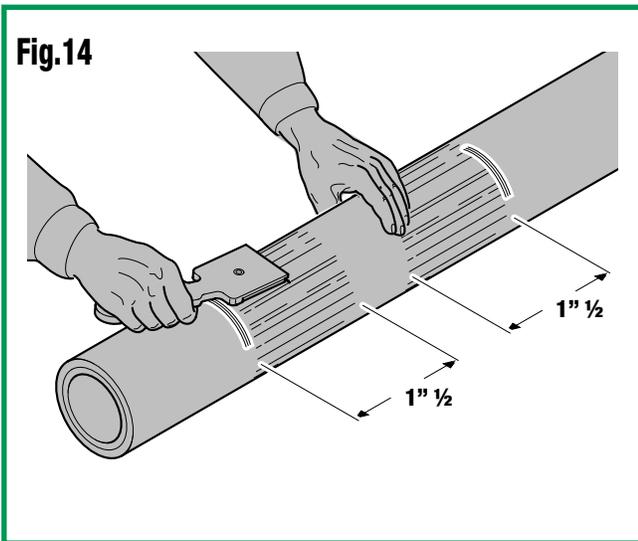
Place the reducers on the entry boot previously scraped and cleaned.

**Note:** As regards the installation procedure of Model SEBEFM, from figure 12 onwards it is understood that the front side of the sump shows the installation procedure of SEBEF and SEBEFM, whereas the back side refers to figure 8b for Model SEBEFM.



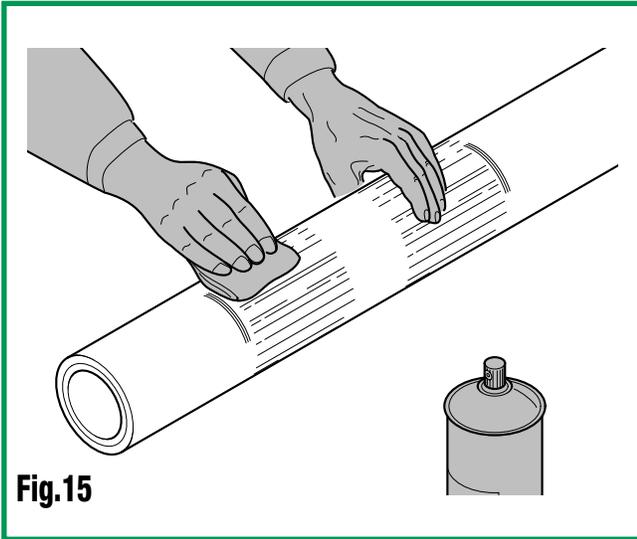
Insert the pipe into the entry boot until the correct position is reached. Use the appropriate marker to indicate the position at the contact point between the pipe and the reducer on the outside surface of the pipe.

**Fig.13**



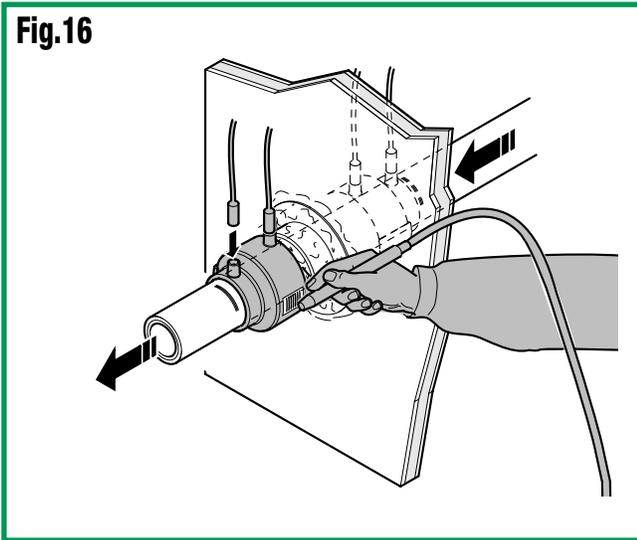
Remove the pipe and scrape along its length where it is to be welded using the manual scraper (Model RAM1). From the point previously marked, scrape 1" ½ (50 mm) from each side.

**Note:** For a correct installation of the SuperSmartflex pipe, ensure to **SCRAPE AND COMPLETELY REMOVE THE GREEN OUTER LAYER** from the primary pipe until the black polyethylene layer is clearly visible on the outside of the pipe. The omission of this step can cause a weld to fail.



Clean the scraped surface with a clean cloth soaked with a recommended cleaning solvent (Model LID1).

**Note:** The following solvents may be used, **Acetone, Isopropyl Alcohol, Trichloroethane and Dichloromethane**. The use of other primers or solvents is not allowed.



Re-insert the pipe through the fitting until it lines up with the previously marked position.

Weld each reducer by scanning the bar code sticker and following the instructions on the welding unit's display.

**Note:** Wait until the cooling down time shown on the bar code has elapsed before performing other operations.

**ATTENTION:** The preferred fluid to be used for monitoring purposes is PP glycol.

**DO NOT USE BRINE!**

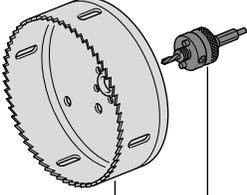
The use of a proper corrosion inhibitor to be added to the monitoring fluid is also recommended.

Please contact our Technical Department for other types of fluid.

**ATTENTION:** We recommend to flow air into the sump annulus when the epoxy is not dry yet to make sure that the purge holes remain open and free of blockage.

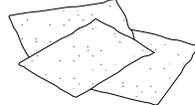


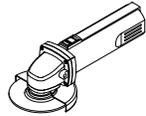
## Recommended tools and equipment necessary for the assembly:

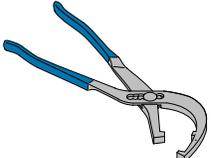
**1**  Hole saw and mandrel  
**STAZ SMAN**  
**(Model STAZ and SMAN)**

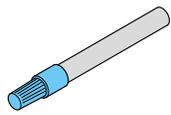
**2**  Drill

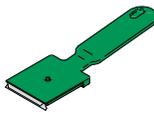
**3**  Pliers  
**(Model SPLIDW)**

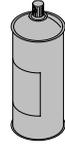
**4**  Emery cloth

**5**  Angle grinder

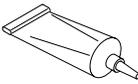
**6**  Filter pliers

**7**  Marker  
**(Model MARK)**

**8**  Manual scraper  
**(Model RAM2 or RAM1)**

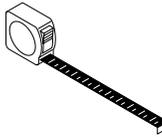
**9**  Cleaning solvent or primer

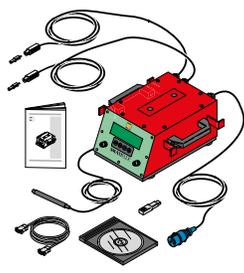
**10**  Soft cloth

**11**  Sealant (Petrol seal)

**12**  Spatula

**13**  Rubber or latex gloves

**14**  Measuring tape

**15**  Welding unit  
**(Model SSEL)**

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