ARPRO

Post-processing

Post-processing includes cutting ARPRO parts, assembling ARPRO parts and screwing or thermo-bonding ARPRO parts with other materials.

| Cutting | Cutting tips | Comments |
|---|--|---|
| Band saw (horizontal or vertical) | Straight set saw blade with cutting speed of 800m/min. Spray coolant on the surface of the spinning saw blade to reduce the temperature from friction. Reduce speed for higher density ARPRO, in order to avoid welding and use a rough saw blade, to create a better surface. | Results in a rough surface |
| Hot wire | A nickel-chromium wire at a speed of 0.5 - 2.0cm/s is recommended. The lower the speed the higher the temperature, therefore adjustments are required to ensure the wire temperature does not get too high. | Hot wire has minimum diameter of 1mm |
| Welding | Comments | Equipment used |
| Hot plate | • Joint area density can be effected by the temperature and pressure applied during the welding process. | Commercial welding system |
| Hot air | Ideally used for single parts or small series of parts. Joint area density can be effected by the temperature and pressure applied during the welding process. | Industrial hot air blower |
| Gluing* | Comments | Example |
| Cyano- acrylate | Surface treatment or use of a primer will improve adhesion strength. Mono-component. Curing time is between a few seconds to a few minutes depending on substrates, temperature, moisture and surface treatment etc. | 3M Scotch-Weld PR100 3M Scotch-Weld AC77 Loctite SF 770 |
| Amino- acrylate | Two-component glue required.Clean surface required. | Scotch-Weld DP-8005 |
| Double face adhesive | • Difficult, as tape cannot penetrate the surface and create a strong bond. Therefore, a surface treatment is required to create a rough surface. | Gerband Klebeband 094500 – Gerlinger |
| | No surface treatment is required if prototypes are cut from a block and have a rough surface. | Nitto – 5015E, D9605 or 3M 9472LE |
| Hot melt | Glue gun is required. | Jet melt 3764Q – 3M Temperature 140-150°C |

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^{*} Recommend surface treatment with solvent (such as acetone or alcohol), or with sandpaper.

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Screwing ARPRO parts

ARPRO parts can be screwed together with the following devices.









Thermo-bonding ARPRO parts

ARPRO can be attached to other materials using adhesive fabric.



Examples can be found at ab-tec.com or spunfab.com

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